NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Deemed to be University u/s 3 of the UGC Act, 1956)
Kumaracoil-629 180, Thuckalay, Kanyakumari District, Tamilnadu

SELF STUDY REPORT

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BENGALURU-560 072



NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Deemed to be University under section 3 of UGC act 1956)

Accreditation of University

SELF STUDY REPORT

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)
Kumaracoil-629180, Thuckalay, Kanyakumari District., Tamilnadu
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Prof. Dr.R.Perumalsamy **17.09.2015**
Vice Chancellor

The Director
National Accreditation and Assessment Council
Bangalore – 560 072

Sir,

Sub: NAAC Accreditation Submission of SSR – Reg.
Ref: Your e-mail dated 02.07.2015

Greetings from Noorul Isalm Centre for Higher Education.

With reference to your e-mail dated 2nd July 2015, Noorul Islam Centre for Higher Education is sending herewith EIGHT COPIES of "SELF STUDY REPORT" by Courier /Speed Post. Self Study Report has also been duly uploaded in the University website. Evidence for having uploaded data in the MHRD website (http://aishe.gov.in) is also annexed to the SSR.

A Syndicate Bank Draft No.386956 dated 17.09.2015 for Rs.6,84,000/- (Rupees Six lakhs eighty four thousand only) drawn in favour of the Director, NAAC, payable at Bangalore has been enclosed towards Accreditation Fee.

Thanking you,

Yours faithfully,

(R.PERUMALSAMY)

Encl: As above.

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List of Abbreviations

AICTE	All India Council for Technical Education
AMC	Annual Maintenance contracts
ASI	Astronautical Society of India
ASSOCHAM	Associated Chambers of Commerce and Industry of India
AvH	Alexander von Humboldt
BARC	Bhaba Atomic Research Center
BCUD	Board of College and University Development
BOCS	Board of Courses and Studies
BOM	Board of Management
BOS	Boards of Studies
BRDC	Board of Research, Development and Consultancy
BRNS	Board of Research and Nuclear Science
BSNL	Bharath Sanchar Nigam Limited
CBCS	Choice Based Credit System
CDC	College Development Council
CGPA	Cumulative Grade Point Average
COE	Controller of Examinations
CSIR	Council of Scientific and Industrial Research
DBT	Department of BioTechnology
DELNET	Developing Library Network
DGS	Director General of Shipping
DKC	Digital Knowledge Centre
DRDO	Defense Research and Development Organization
EPS	Electrical Power System
EQM	Engineering Qualification Model
F	Female
FDP	Faculty Development Programme
FOSS	Free Open Source Software
FRCS	Fellowship of the Royal College of Surgeons
GATE	Graduate Aptitude Test in Engineering
Govt	Government
HRM	Human Resource Management
IAS	Indian Administrative Service
IBM	International Business Machine
IEEE	Institute of Electrical and Electronics Engineering
ILL	Inter library Loan
INFLIBNET	Information Library Network

INSPIRE	Innovation in Science Pursuit for Inspired Research
IPR	Intellectual Property Rights
IPS	Indian Police Service
IQAC	Internal Quality Assurance Cell
ISBN	International Standard Book Number
ISRO	Indian Space Research Organization
ISSN	International Standard Serial Number
IT	Information Technology
KVPY	Kishore Vaigyanik ProtsahanYojana
M	Male
M.Phil	Master of Philosophy
MBA	Master of Business Administration
MoU	Memorandum of Understanding
NGO	Non Governmental Organization
NICHE	Noorul Islam Center for Higher Education
NICS	Noorul Islam Civil Service Academy
NIMS	Noorul Islam Institute of Medical Sciences
NISWA	Noorul Islam Staff Welfare Association
NIUSAT	Noorul Islam University Satellite
NKC	National Knowledge Commission
NKN	National Knowledge Network
NME	National Mission on Education
NPTEL	National Program for Technology Enhanced Learning
NSS	National Service Scheme
OBC	On Board Computer
OMR	Optical Marking recognition
OPAC	Online Public Access Catalogue
P.G	Post Graduate
PDF	Post Doctoral Fellowship
Ph.D	Doctoral of Philosophy
PI	Principal Investigator
PSLV	Polar Satellite Launching Vehicle
R&D	Research and Development
RCC	Regional Cancer Center
RRC	Red Ribbon Club
SC	Scheduled Caste
SNEHA	Social Need Education and Human Awareness
SNIP	Source Normalized Impact per Paper

SRF	Senior Research Fellowship
ST	Scheduled Tribes
TCS	Tata Consultancy Service
TNSCST	Tamilnadu Science and Technology
TTC	Telemetry and Tele Command
UG	Under Graduate
UGC	University Grant Commission
UPSC	Union Public Service Commission
YRC	Youth Red Cross
YSP	Young Scientist Fellowship
YSSAP	Young Student Scientist Adoption Programme

EXECUTIVE SUMMERY

EXECUTIVE SUMMARY

Criterion – I Curricular Aspects

The strength, growth, development, recognition, reputation, social commitment and the exemplariness of a university very much depend on the curriculum framed for each course the university offers. The curriculum so framed must be dynamic, relevant and to a certain extent flexible enough to accommodate new findings, innovations and new concepts in different avenues so that it continues to remain updated and be in tune with the knowledge explosion and the rapid technological developments. The curriculum must also reflect the avowed mission and vision of the institution. The curricula must make our science and technology education a way of life i.e. thinking logically and rationally. Keeping this concept in mind, the Noorul Islam Centre for Higher Education has framed the curricula for all the programmes offered by her.

The academic regulations of the University provide for Choice Based Credit System with semester pattern and continuous internal assessment. The Choice Based Credit System (CBCS), the 'cafeteria like system' transforms the traditional teacher-centric education into a learner-centric education. Thus the academic freedom embedded in the regulations provide flexibility for the students to have a greater choice of courses appropriate to their interests, needs and long-term goals; rather than a rigid and compartmentalized system. Moreover, personality development programmes, projects and industrial visits are designed as part of the curriculum. The aim is that at the end of the course the learner should be in a position to transfer the knowledge and skills developed within the class room to real life situations.

"Making graduates and postgraduates more employable" is the new `mantra' in higher education. Hence, due care has been taken while constituting the Board of Studies of Noorul Islam Centre for Higher Education. It is mandatory for the Boards of Studies to have an academician of repute and an industrial expert from the relevant discipline as external members keeping in mind the concept of learner-centric approach. The integration of Information and Communication Technology in the curriculum of all the programmes aims at attaining global competency by the students.

The University is aware of the fact that obtaining feedback from the industrialists, employers, academic peers, faculty, parents, alumni and students through informal and formal means ensures the availability of information about the curricula and the qualitative changes required in the curricula/syllabi and hence the feedback methodology has been introduced and strengthened.

The Intramural courses provide students with opportunities to deepen their values and develop intrapersonal and interpersonal skills. These courses

have been designed to meet articulated and observed needs of the students in consonance with the changing demands of the industry. The Intramural courses will help to develop academic and technical competence, interpersonal skills and values and spiritual well-being of the budding technology professionals.

A unique feature of the curricula is that in order to incorporate the state-of-art developments, the teacher teaching the subjects at the post graduate level is empowered to change the syllabus to the extent of 10% with proper preplanning and prior approval from the Vice-Chancellor without going through the process of Board of Studies and Academic Council approvals.

Criterion – II Teaching-Learning and Evaluation

The university understands that the teaching–learning process is as important as that of the research activity and in fact it complements the core research activity. Towards this aim, it ensures that the admission of students to the different programmes is as per the UGC regulations based on an all India entrance test and merit. The institution's admission policy also incorporates the reservation norms stipulated by the Govt. of Tamilnadu and is transparent.

The various programmes offered in this technical university cater to the individual aspirations of the students as they are offered both in conventional and nonconventional engineering disciplines both at the undergraduate and postgraduate levels.

The prime role of a teacher is to provide an overview of the subject matter and stimulating the students and disseminating the facts. Appropriate handouts are provided to the students for complex diagrams or difficult or critical texts. Good handouts help to avoid the communication difficulties and motivate the students to think further critically and laterally, which, in turn, leads to innovations and purposeful research and projects. In order to stimulate the passive learners, computerized communication tools and computer-based problem-solving tools are used. Again the teaching-learning process is made learner-centric by adopting the problem solving approach, interactive sessions and participatory learning, experienced learning through well-laid laboratory practices and industrial visits apart from exposure to real life situations.

As the hall mark of blending technology for effective teaching-learning process, the interactive web based course materials and large video repository of technical lecture courses in the streaming video format are made accessible to the faculties and students via Intranet. Further, the course contents are modularized into core concepts and topics which are add-ons to the course for

better understanding. Access to NPTEL video lectures paves way for the University students to listen to the lectures of the best teachers in the country. This bridges the gap that exists between IITs and the new-born Universities in terms of providing quality and focused education.

It is the firm belief that qualified faculty is the hall mark of any effective teaching-learning process and therefore the management ensures that all the faculty are appointed based on the qualification prescribed by the UGC and through the well-laid down procedures. Their teaching ability is enhanced by making them attend the in house Staff Development Programmes organized by this University and also facilitating them to attend the programmes organized by other institutions. They are also trained in the effective use of the ICT gadgets.

The 'university regulations' have a built in mechanism for the continuous monitoring of the students which is transparent and includes the grievance redressal mechanism. In the evaluation process, the regulations incorporate 25% internal assessment for the undergraduate courses while it is 40% for the postgraduate courses. In the end semester examinations, we practice single valuation for UG, while at the PG level, we practice double evaluation. The students have the option to go for re-totaling or revaluation, if they are aggrieved. There is provision for getting the photocopies of the answer scripts of the end semester examinations as in vogue in certain leading universities.

We have a mechanism to identify the slow and advanced learners. The slow learners are taken care of by remedial coaching, tutorials, academic counseling by the Mentors etc. The advanced learners are adequately accommodated to do challenging tasks like projects, seminars etc.

On the whole, the University aims at achieving satisfaction among the different stakeholders of the teaching-learning process by effective and willing participation of everybody involved in the process.

CRITERION – III Research, Consultancy and Extension

The University administration firmly believes that research is a core activity in a University system and hence all efforts are taken towards stimulating and activating research in the campus.

A statutory body, Board of Research, Development and Consultancy (BRDC), is the apex body to take care of research promotion activities by encouraging and regulating it. This body motivates the faculty to publish their research findings in high impact factor journals and to go for extramural funding for the projects. Promoting industry-institute, institute-institute collaboration in research is also the function of BRDC. It also motivates the

researchers to go for patent for their products/processes. In fact, two patents have been granted to the university and applications for three more have already been filed for.

To create and foster right ambience for research, a Research Forum at the University level which meets once in two months and Research Colloquium at the department level which meets once in a fortnight are operational.

In this University, Seventy Four internal faculty members are recognized as research supervisors and around hundred and twenty faculty members are pursuing their part time doctoral research either in this University or in other Universities. In fact, every one of the faculty is involved in research in one way or the other since all faculties are expected to take up a mini or a major project both at UG and PG levels as a part of curriculum requirement.

As of now, projects worth about Rs1.67 crores are ongoing and projects to the tune of Rs 17 crores have been submitted to various organizations for funding. The faculty members of this University have published more than 900 papers in nationally/internationally recognized refereed journals. This apart, the faculties have also presented more than 400 papers in national/international conferences during the last five years.

International conferences have been organized by the University Departments regularly in each academic year to motivate the budding researches to share their innovative research ideas with National and International experts in relevant fields.

Consultancy services have been provided to various organizations during the last five years. Noorul Islam Centre for Higher Education has been selected by ASSOCHAM INDIA as the Best University with its educational and social commitments in the rural areas. In a function held in New Delhi on 19th February, 2014, Dr. R. Perumalsamy, the Vice Chancellor of Noorul Islam Centre for Higher Education, was given the award by Padma Vibhushan Dr. Karan Singh, the Honourable Chairman of Ethics Committee and Foreign Affairs Cell, Government of India. The School of Management Noorul Islam Centre for Education won the Best B School Award in the southern Region of India in 2013.

The faculty members are encouraged to participate and present their research papers in reputed National and International conferences and Seminars/Workshops by providing necessary TA/DA and duty leave.

The University has been and is very active in building up network with neighborhood thorough community development programs. The Health Center of the University takes care of the medical requirements of not only the students and faculty but also the people in the neighborhood. The NSS Units

of the university in association with the Bio-Medical Engineering Department carry out out various activities like free Medical Camp, Eye Testing Camp, Blood- Donation Camp etc in the neighbouring villages. The University has received “Best NSS Activity Award” and “Best NSS Coordinator’s Award” from Govt. of Tamilnadu. The University has adopted a Government Middle School at Thuckalay, Kanyakumari District,Tamilnadu and setup a computer lab in this school for the benefit of the students. Three tribal students have been adopted by the University by taking care of their School Education requirements. The University has been organizing a seaweed cultivation programme for the socio economical benefit of coastal women in the village Leepuram, a coastal Village in Kanyakumari District. It has proposal to extend the program to other villages of the east coast of Kanyakumari District.

Another unique program is Young Student Scientist Program (2000-2011) in which hundred students from class eight are selected based on a test which was taken up by about 5000 students from the southern districts of Tamilnadu. They were given two week residential training program which includes theory and practical sessions on the importance and applications of science and technology. The top 500 students are given a scholarship of Rs. 1000/- to peruse their school education.

NICHE was acutely aware of the lack of prediction systems in Tamil Nadu and India of devastating natural calamities like earthquakes, tsunami and floods. Therefore, an earnest investigation into the possibilities of prediction of natural calamities became a disturbing botheration with the institution. The same has been discussed with Dr. A. E. Muthunayagam, the father of Propulsion Technology in Indian Space Programme, ISRO, and the Advisor of NICHE. With such high goals as to protect lives and properties and even infrastructure during natural disasters, the NICHE, ventured into building and launching a Nano Satellite into space with the support of space organizations of the Indian Government. And this has resulted in the NIU Nano Satellite Project in alliance with ISRO, Govt. of India. The purpose of building the nano satellite is for disaster mitigation and for developing a disaster management support system to support the costal peoples of Kanyakumari district.

Further, being a Higher Education Institution, the second objective of NIUSAT initiative is to empower the institution with satellite technology and subsequently enable our students to have access to satellite technology which will result in social uplifting. As an initial step, the university is developing a nano-satellite “NIUSAT MARK I – NOORUL ISLAM UNIVERSITY STUDENT NANO-SATELLITE”. It has been a dream project of the President, Noorul Islam Centre For Higher Education, Dr. A. P. Majeed Khan, to launch a satellite on space for the welfare of our nation as a whole and enable our university with the knowhow of aerospace technologies and innovations. The programme is being mentored and guided by the Programme Director Dr. A. E. Muthunayagam, the Advisor of the university.

The students of the University actively take part in sports and cultural activities and they have brought laurels to the university from inter university festivals and sports activities.

CRITERION – IV Infrastructure

The basic factor for any educational institution is its infrastructure and learning resources. The Noorul Islam Centre for Higher Education firmly believes that it is only through good Infrastructure and learning resources can a University fulfill its mission and vision. The Noorul Islam Centre for Higher Education is endowed with a very good physical infrastructure – class rooms, administrative building, building for each discipline, well-equipped laboratories, power and water supply, hostels, transport etc.

The University is ideally located in a sprawling 44 acres of engulfed greenery. The atmosphere is peaceful and congenial for making teaching-learning process effective. The built in area of 80598.51 sq.m provides the right ambience for academic and research activities to flourish. There is regular augmentation of the infrastructure keeping pace with the academic growth. The campus is networked and 24x7 internet access is made available.

Every Department in the university has a separate self-contained building with well-equipped laboratories and each Department is provided with adequate number of class rooms, cubicles for the faculty, smart class room and discussion room to facilitate the academic programmes. The University has a separate Administrative block. A Health Centre manned by two qualified and experienced doctors and supported by competent paramedical staff is functioning effectively in the campus for the benefit of students and staff. Separate UG and PG hostels for the women students are located inside the campus and the PG & UG hostels for men are situated very near and within the vicinity of the main entrance to the university. There are eight gents hostel blocks and four ladies hostel blocks. Adequate rooms are there to meet the demands for hostel accommodation. Facilities such as indoor games, gyms reading rooms, visitors room, common prayer/recreation halls, television and telephones are provided.

The university has adequate member of canteens to serve food and refreshment to the staff as well as students. A book shop and photo copying facilities at various points are available inside the campus. The campus has roads connecting all buildings. Provisions are there for future expansion of each of the existing buildings as all the structures are pillar-based. The University has adequate transportation facility with its own fleet of vehicles and this facility is supplemented with hired vehicles during special programs. The campus gets copious supply of water from the natural springs at the nearby hills and in addition to this, the University gets ground water supply through bore wells to facilitate uninterrupted water supply. Water purifier is installed in all buildings. The University also has uninterrupted power supply. Major buildings also have back-up facilities with generators and UPS. The

environmental beautification of the campus is being carried out through the planting of hundreds of saplings every year.

In addition to the physical facilities mentioned above, the University provides many more facilities for academic activities to flourish. There is a library in each department and there is a well-equipped Central Library. The Central Library with a huge volume of books, journals and magazines provides Online Public Access Catalogue (OPAC) facility, reprographic and printing facility and e-journal access facility. There is also a separate Digital Knowledge Centre (DKC). Apart from these, about 45 computers are installed in the library for utilization by the staff and students from 6 a.m. to 6 p.m. On line IEEE Journals and SCIENCE DIRECT are also made available. The Library services are computerized, automated and digitalized. Further on Inter library Loan (ILL) facilities are also available.

Multipurpose play grounds and provisions for outdoor games and indoor games are provided. Gymnasium facility available in the campus keeps our students fit and healthy. Spacious auditorium and AC Conference Halls are fully utilized by the students for their co-curricular and extra-curricular activities.

The University has an established a Maintenance Centre located in a separate building and is easily accessible to all departments.

Criterion – V Student Support and Progression

Noorul Islam Center for Higher Education practices various well meaning measures for the support and progression of students.

As a support measure, the institution offers various financial aids to the meritorious students in the form of tuition fee waivers, freeships and payments of fee in installments to help the rural poor/downtrodden/tribal students. Various scholarships are provided for deserving students of minority communities, SC/ST, BC & MBC. Bank loans are also arranged for the needy students. The student support services available in university are made known to students/parents/public through prospectus, handbooks, and website apart from periodical information in notice boards.

Excellent transport facilities with a good fleet of buses, 24 hours medical facility, nutritious and hygienic food in both hostels and canteens and uninterrupted supply of power and water are provided to the students. Special coaching for competitive exams like TOFEL, CAT are also given. Academic counseling by the mentors and tutorials are the incentives provided to take care of slow learners. Bridge courses are for the first year students.

This institution provides students with well-equipped laboratories, spacious classrooms, access to library from 6 a.m. to 6 p.m. and 2 GBPS broadband internet facility. The stake holders enjoy access to online technical journals, digital library, EDUSAT from Anna University for classroom coaching, seminars, and symposia based on current topics from industry experts. Students of every department are encouraged to form their own association, that takes care of co-curricular activities and also provides the forum for building leadership skills, team culture and organizing skills.

Students are trained for campus interviews by the Placement and Training Cell and it is very effective in placing students. Students are enabled to acquire all sorts of soft skills to make them employable. It takes care of personality development programmes and other related life skill programmes. Entrepreneur Guidance Cell of the university develops the entrepreneur skills and organizing abilities of the students. Grievance Cell are is functioning effectively in solving student's problems, both academic and personal. Women Development Cell deals with the problems related to women, like sexual harassment. Women are made aware of their rights and gender equality in legal terms. Alumni Association is very active in the institution. The members of the Association support current student community in getting placements and industrial training with their experience and expertise.

Students are encouraged to participate in intercollegiate competitions and also in avenues like NSS, YRC, Red Ribbon, and Literacy Club.

CRITERION – VI Governance and Leadership

The Founder-Chancellor of the Deemed University, a great Philanthropist and a father figure with humane approach, besides performing his statutory role to perfection, acts as a vital link between the sponsoring Society and the University and ensures liberal funding to fuel the rapid growth of the University.

The Chancellor, the Vice-Chancellor and the members of the Board of Management evince keen interest in fulfilling the goals envisaged in the Vision and Mission statements of the University by providing ideal work culture, conducive atmosphere, good infrastructural facilities and highly qualified staff. They play a key role in developing the perspective institutional plan.

The Vice-Chancellor is the principal executive officer of the University. He presides over the meetings of all the authorities of the University and with the help of the various Staff Committees / Cells and Officers of the University ensures proper implementation of the decisions of the authorities.

Participatory governance paves the way for transparent administration. Various Committees have been formed for decentralization and delegation of powers. Management information system is in place. The scope and functions of various Committees and the roles and responsibilities of all the teaching, non-teaching staff are clearly defined as per the policies approved by the Board of Management.

The different academic and administrative committees meet periodically and work as per their objectives resulting in the smooth and transparent functioning of the University in tune with the UGC Regulations.

The employees are personally counselled and inspired to contribute to the development of the University. By paying personal attention to the day-to-day affairs, the Vice-Chancellor ensures disciplined conduct. At the same time, professional development of both teaching and non-teaching staff is encouraged. In addition to in-house staff development programmes, assistance is provided for higher studies and participation in seminars, conferences, workshops and training programmes organized elsewhere. A sense of belongingness is instilled in the minds of the staff.

An effective redressal mechanism operates through the Grievance Cell headed by a senior professor of commendable experience.

All financial transactions have been computerized and student data-base has also been created. Besides the existing mechanism of internal check, the annual external audit is carried out by a reputed firm of Chartered Accountants, M/s Frank & Co, Nagercoil, Kanyakumari District, Tamilnadu.

CRITERION – VII Innovative Practices

Quality Assurance, participative governance and smooth & transparent functioning of the University are ensured through various academic and administrative committees involving staff members at different levels, formed for performing well defined roles. These Committees meet periodically and work for the quality enhancement of the Institution. The Vice-Chancellor acts as the mentor of these Committees and personally ensures that they are in the right track.

This Institution firmly believes in academic freedom and encourages innovation in teaching-learning process and research. Introduction of Inter-disciplinary / Multi-disciplinary programmes, integration of I.C.T. in the curriculum, CBCS with more number of elective subjects, Academic Regulations, permitting the teacher concerned to modify 10% of the syllabus of individual subjects at the Post Graduate level to accommodate latest developments in the field /changes for the Industry requirements are among the noteworthy features. ICT enabled teaching-learning process including web resources of NPTEL supported by 24 hour 2 GBPS Internet facility across the campus contributes to quality enhancement.

Strict vigil is maintained on syllabus coverage, student attendance, continuous evolution process and scheduling of Tests /Seminars / Presentations / Guest Lectures, through a three-tier Committee system and Log Book system involving students.

Research Colloquiums at the Department level and Research Forum at the University level and BRDC headed by the VC himself monitor and stimulate research activities. Apart from accelerated in-house research activities, submission of 52 project proposals to different funding agencies vouches for the effectiveness of research promotion measures. In fact, many more research proposals are getting ready for submission to various funding agencies.

The Management's strong commitment in the effective transaction of the teaching-learning process and promotion of innovative research is evidenced by the good infrastructure facilities, well-equipped laboratories, provision of incentives to faculty members obtaining extramural funding, readiness to supplement project funds to create required additional infrastructure, financial support for organizing and participating in National and International Seminars/Conferences, staff development programmes, awards to best performing teachers and encouragement to meritorious students by the offer of scholarships. All these measures have created a sense of belongingness among the members of the staff and also a sense of pride among the students.

Social justice and good-citizenship values are instilled in the minds of the students through co-curricular and extra-curricular activities. Students are encouraged to participate in the endeavours of the Institution to actively support and strengthen the neighborhood communities. Conduct of computer awareness programmes, Satellite based agriculture crop monitoring, disaster management support system, training on seaweed cultivation and young student scientist adoption program. and extension of health-care services are among the initiatives of this University to contribute to the development of the neighbourhood.

Various associations concerning the parents, teachers, alumni and the students at Department levels create a sense of belongingness and homeliness among the different constituents and also homogenize them into a holistic entity.

Profile of the University

1. Profile of the University

1. Name and Address of the University:

Name:	**NOORUL ISLAM CENTRE FOR HIGHER EDUCATION**	
Address:	**Kumaracoil, Thuckalay, Kanyakumari District,**	
City: Thuckalay	**Pin: 629180**	**State: Tamilnadu**
Website: www.niuniv.com		

2. For Communication:

Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Dr. R. Perumalsamy	**O:** 04651-250467 **R:**	9444022063	04651-257266	vc @niuniv.com
Pro Vice Chancellor (s)	Dr. N.Chandrashehar	**O:** 04651-251466 **R:**	9442389308	04651-250266	drncshekhar60 @yahoo.com
Registrar	Dr. S. Manickam	**O:** 04651-251766 **R:**	9488249170	04651-257266	nichereg @gmail.com
Steering Committee / IQAC Co-ordinator	Dr.A. Shajin Nargunam	**O:** 04651-252440 **R:**	9486856113	04651-257266	shajin @niuiniv.com

3. Status of the University:

State University	
State Private University	
Central University	
University under Section 3 of UGC (Deemed University)	✓
Institution of National Importance	
Any other (please specify)	

4. Type of University:

Unitary	✓
Affiliating	

5. Source of funding:

Central Government	
State Government	
Self-financing	✓
Any other (please specify)	

6. a. Date of establishment of the university: 01-07-2009 **(dd/mm/yyyy)**

b. Prior to the establishment of the university, was it a/an

i.	PG Centre	Yes		No	
ii.	Affiliated College	Yes	✓	No	
iii.	Constituent College	Yes		No	
iv.	Autonomous College	Yes		No	
v.	Any other (please specify)	-			

If yes, give the date of establishment 01-07-1989 (dd/mm/yyyy)

7. Date of recognition as a university by UGC or any other national agency:

Under Section	dd	mm	yyyy	Remarks
i. 2f of UGC*			2006	As the college
ii. 12B of UGC *				
iii. 3 of UGC #	08	12	2008	Vide notification No.: F.9-51/2004-U.3
iv. Any other ^ (specify)				

* Enclose certificate of recognition.

#Enclose notification of MHRD and UGC for all courses / programmes / campus/ campuses.

^ Enclose certificate of recognition by any other national agency/agencies, if any.

8. Has the university been recognized

a. By UGC as a University with Potential for Excellence?

Yes [ ] No [✓]

If yes, date of recognition : …… (dd/mm/yyyy)

b. For its performance by any other governmental agency?

Yes [ ] No [✓]

If yes, Name of the agency …… and

date of recognition: …… (dd/mm/yyyy)

9. Does the university have off-campus centres?

Yes [ ] No [✓]

If yes, date of establishment : …… (dd/mm/yyyy)
date of recognition : …… (dd/mm/yyyy)

10. Does the university have off-shore campuses?

Yes [ ] No [✓]

If yes, date of establishment : …… (dd/mm/yyyy)
date of ecognition : …… (dd/mm/yyyy)

11. Location of the campus and area:

	Location *	Campus area in acres	Built up area in sq. mts
i. Main campus area	Rural	44	80598.51
ii. Other campuses in the country	-	-	-
iii. Campuses abroad	-	-	-

(* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)
If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.

[✓] Auditorium/seminar complex with infrastructural facilities (AC Auditorium, Open Air Auditorium, Convocation Hall, and Seminar Hall)

[✓] Sports facilities
Playground (Football, Basketball, 8 Lane 200m track)

[✓] Swimming Pool

[✓] Gymnasium - 2

Hostel

[✓] Boys' hostel

i. Number of hostels - 8
ii. Number of inmates - 1069
iii. Facilities - Television, Reading room, Office room Computer room,

Recreation/Prayer Hall, Yoga centres, Mess Facility, Canteen, Telephones, Indoor games, Gym, wi-fi connectivity.

[✓] Girls' hostel

i. Number of hostels - 4
ii. Number of inmates - 510
iii. Facilities - Television, Reading room, Office room Computer room, Recreation/Prayer Hall, Yoga centres, Mess Facility, Canteen, Telephones, Indoor games, Gym, wi-fi connectivity.

[X] Working women's hostel

i. Number of hostels
ii. Number of inmates
iii. Facilities

[✓] Residential facilities for faculty and non-teaching

[✓] Cafeteria -9

[✓] Health centre – Nature of facilities available – inpatient, outpatient, ambulance, emergency care facility, etc.

[✓] Facilities like banking, post office, book shops, etc.

[✓] Transport facilities to cater to the needs of the students and staff

[✓] Facilities for persons with disabilities – Ramp Facilities

[X] Animal house

[x] Incinerator for laboratories

[✓] Power house

[✓] Waste management facility

13. Number of institutions affiliated to the university

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce	-	-	-
Law	-	-	-
Medicine	-	-	-
Engineering	-	-	-
Education	-	-	-
Management	-	-	-
Others (specify and provide details)	-	-	-

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University:

Yes ☐ No ☑ Number ☐

15. Furnish the following information:

Particulars	Number
a. University Departments	
Undergraduate	3
Post graduate	17
Research centres on the campus	6
b. Constituent colleges	-
c. Affiliated colleges	-
d. Colleges under 2(f)	-
e. Colleges under 2(f) and 12B	-
f. NAAC accredited colleges	-
g. Colleges with Potential for Excellence (UGC)	-
h. Autonomous colleges	-
i. Colleges with Postgraduate Departments	-
j. Colleges with Research Departments	-
k. University recognized Research Institutes/Centres	-

16. Does the university conform to the specification of Degrees as enlisted by the UGC?

Yes ☑ No ☐

If the university uses any other nomenclatures, please specify.

17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered):

Under Graduate Programmes :

Sl. No.	Programmes
1.	**B.E.** Aeronautical Engineering
2.	**B.E.** Aerospace Engineering
3.	**B.E.** Aircraft Maintenance Engineering
4.	**B.E.** Automobile Engineering
5.	**B.E.** Biomedical Engineering.
6.	**B.E.** Computer Science and Engineering.
7.	**B.E.** Civil Engineering
8.	**B.E.** Electronics and Communication Engineering
9.	**B.E.** Electrical and Electronics Engineering.
10.	**B.E.** Electronics and Instrumentation Engineering
11.	**B.E.** Marine Engineering.
12.	**B.E.** Mechanical Engineering
13.	**B.Tech.** Fire Technology and Safety Engineering
14.	**B.Tech.** Information Technology
15.	**B.Tech.** Nanotechnology
16.	**BBA** – Bachelor of Business Administration

Post Graduate Programmes :

Sl. No.	Programmes
1.	**M.E.** Applied Electronics
2.	**M.E.** Aeronautical Engineering
3.	**M.E.** Computer Integrated Manufacturing
4.	**M.E.** Computer Science and Engineering
5.	**M.E.** Control and Instrumentation Engineering
6.	**M.E.** Communication Systems
7.	**M.E.** Software Engineering
8.	**M.E.** Structural Engineering
9.	**M.E.** Thermal Engineering
10.	**M.Tech.** Nanotechnology
11.	**M.E.** Cyber Security
12.	**M.E.** Automobile Engineering
13.	**MBA** Master of Business Administration
14.	**MBA-HRM** Master of Business Administration – Human Resource Management
15.	**MCA** Master of Computer Applications
16.	**M.Sc.** Physics
17.	**M.Sc**. Chemistry

18.	**M.Sc.** Mathematics
19.	**M.A**. English
20.	**MSc.** Software Engineering **(5 Years)**

Other Programmes :

Sl. No.	Programmes
1.	**M.Phil.** Computer Science with Specialization in Computer Applications
2.	**M.Phil.** Computer Science with Specialization in Software Engineering
3.	**M.Phil.** Management Studies
4.	**M.Phil.** English
5.	**M.Phil.** Chemistry
6.	**M.Phil.** Physics
7.	**M.Phil.** Mathematics
8.	**M.Phil.** Biotechnology

Ph.D. Programme is offered by all the PG Departments

18. Number of working days during the last academic year : 90

19. Number of teaching days during the past four academic years.

2011-2012	86	2012-2013	90	2013-2014	89	2014 - 2015	87

('Teaching days' means days on which classes were engaged. Examination days are not to be included)

20. Does the university have a department of Teacher Education?

Yes [ ] No [✓]

If yes,

a. Year of establishment …… (dd/mm/yyyy)

b. NCTE recognition details (if applicable)
Notification No.:
……

Date: …… (dd/mm/yyyy)

Is the department opting for assessment and accreditation separately?

Yes [ ] No [ ]

21. Does the university have a teaching department of Physical Education?

Yes [ ] No [✓]

If yes,

a. Year of establishment …… (dd/mm/yyyy)

b. NCTE recognition details (if applicable)
Notification No.:
……

Date: …… (dd/mm/yyyy)

c. Is the department opting for assessment and accreditation separately?

Yes [ ] No [ ]

22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?

Yes [✓] No [ ]

If yes, please enclose approval / recognition details issued by the statutory body governing the programme. (AICTE Extension of Approval copy enclosed)

23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon :

No

24. Number of positions in the university :

Positions	**Teaching faculty**			**Non-teaching staff**	**Technical staff**
	Professor	**Associate Professor**	**Assistant Professor**		
Sanctioned by the UGC / University / State Government	43	48	184	391	69
Recruited					
Yet to recruit					
Number of persons working on contract basis	-	-	-	-	-

25. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	1						1
Ph.D.	31	5	14	12	19	16	97
M.Phil.			3	1	10	24	38
PG	6		14	4	70	45	139
Temporary teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

26. Emeritus, Adjunct and Visiting Professors :

	Emeritus	Adjunct	Visiting
Number	-	-	9

27. Chairs instituted by the university:

	Chairs
School / Department	-

28. Students enrolled in the university departments during the current academic year, with the following details:

Students	UG		PG		Integrated Masters		M. Phil.		Ph.D.		Integrated Ph.D.		D.Litt, / D.Sc.		Certificate		Diploma		PG Diploma	
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
From the state where the	135	20	25	83	1	3	10	91	18	15										

university is located																				
From other states of India	199	21	49	13	2	1	3	8	26	18										
NRI students																				
Foreign students							1													
Total	334	41	74	96	3	4	14	99	44	33										

*M – Male, *F – Female

29. **Unit cost' of education :**

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled) – ***Academic Year 2014-2015***

(a) including the salary component = **Rs.1,46,268/-**

(b) excluding the salary component = **Rs. 78,663/-**

30. Academic Staff College :

NA

- Year of establishment ……
- Number of programmes conducted (with duration)
  - UGC Orientation
  - UGC Refresher
  - University's own programmes

31. Does the university offer Distance Education Programmes (DEP)?

Yes [ ] No [✓]

If yes, indicate the number of programmes offered.

Are they recognized by the Distance Education Council?

32. Does the university have a provision for external registration of students?

Yes [ ] No [✓]

If yes, how many students avail of this provision annually?

33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle:

Accreditation : Cycle 1 [✓] Cycle 2 [ ] Cycle 3 [ ] Cycle 4 [ ]

Re-Assessment: ☐

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) :

Cycle 1: …… (dd/mm/yyyy), Accreditation outcome/Result ……
Cycle 2: …… (dd/mm/yyyy), Accreditation outcome/Result ……
Cycle 3: …… (dd/mm/yyyy), Accreditation outcome/Result ……
Cycle 4: …… (dd/mm/yyyy), Accreditation outcome/Result ……

* Kindly enclose copy of accreditation certificate(s) and peer team report(s)

35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university :

NA

36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR):

IQAC	22-08-2012 (dd/mm/yyyy)
AQAR	(i) …… (dd/mm/yyyy)
	(ii) …… (dd/mm/yyyy)
	(iii) …… (dd/mm/yyyy)
	(iv) …… (dd/mm/yyyy)

37. Any other relevant data, the university would like to include (not exceeding one page :

STRENGTH, WEAKNESS, OPPORTUNITY & CHALLENGE

STRENGTH, WEAKNESS, OPPORTUNITY & CHALLENGE (SWOC)

Strengths:

- Noorul Islam Centre for Higher Education Campus comprising of 44 acres of land is enjoying the fresh rural environmental and pleasant climatic conditions as well as connected to Kanyakumari at a hills of –Velli Mali.
- The University has maintained its identity in all times and trends and has always remained a unique cultural centre with high principles of sustenance.
- Well known for quality teaching in Technical Education with a long series of renowned teachers serving this institution and acclaimed nationally and internationally.
- Almost 40 percent the faculty members of the University Teaching Departments have Doctoral degrees.
- Diversity of courses with competent faculty members and enriched with infrastructure and other resources.
- Well maintained huge campus with sufficient number of class rooms, sufficient departmental lab spaces, spacious and well- established library hosting some rare collections of books & manuscripts, adequate sports facilities with playgrounds, green campus and other facilities.
- Research and Innovative academic expansion.- Two patents on its credit namely AVID stands for Artificial Visual Implant Device, a visual device for blind people and Sun Tracker Device (STD) STD has a rotating solar mount fixed with arrays of solar energy converters.
- University is in the process of installation of Satellite
- A long tradition of mentoring of students by teachers on their own initiative. University has a well-established student support system taking care of their academic and financial needs.
- The University offers education with least monetary burden on the students while at the same time offering a quality life and living on the campus.
- The University has maintained an astute awareness of the demands of the contemporary world and keeping that in view it has always been initiating new courses.

Weaknesses:

- Shortage of non-teaching staff in comparison to enrolment in different courses it is also because of stagnation in the process of new recruitment.
- Slow compatibility of teaching and non-teaching staff with emerging technologies in higher education and constraints in regular appointment of computer literate staff.
- High impact factor yet to be achieved by the faculties.
- Scope for augmentation of ICT tools in academic and administrative areas.
- University is lagging behind on the front of collaboration with institution of repute, national and international.
- The University is not succeeding in the mission of attracting desired level of foreign students.

- The University is required to enhance its potential towards consultancy services and outreach to the industries and corporates.

Opportunities

- Self-financing courses have potential for quality education on subsidized fee. These courses have raised the employability of students. More such courses would strengthen the University's academic and financial standing.
- The University is full of opportunities for students to grow in a holistic manner through a cultural, intellectual, co-curricular and extra-curricular exposure in a healthy environment.
- The University is a place for all the marginalised sections of region to get an opportunity to grow and thus acquire self-esteem.

- The University has opportunities to offer to its budding citizens with an exposure of community development and welfare.
- Scope for professional consultancies.
- Planned efforts for attracting foreign students.
- Expansion of University-Society Interaction for sustainable development.
- Scope for expansion of Physical Infrastructure in future towards establishing new departments in emerging disciplines.
- The University has enormous unused potential to significantly contribute to the development of knowledge inspired services to Society & Industry.

Challenges

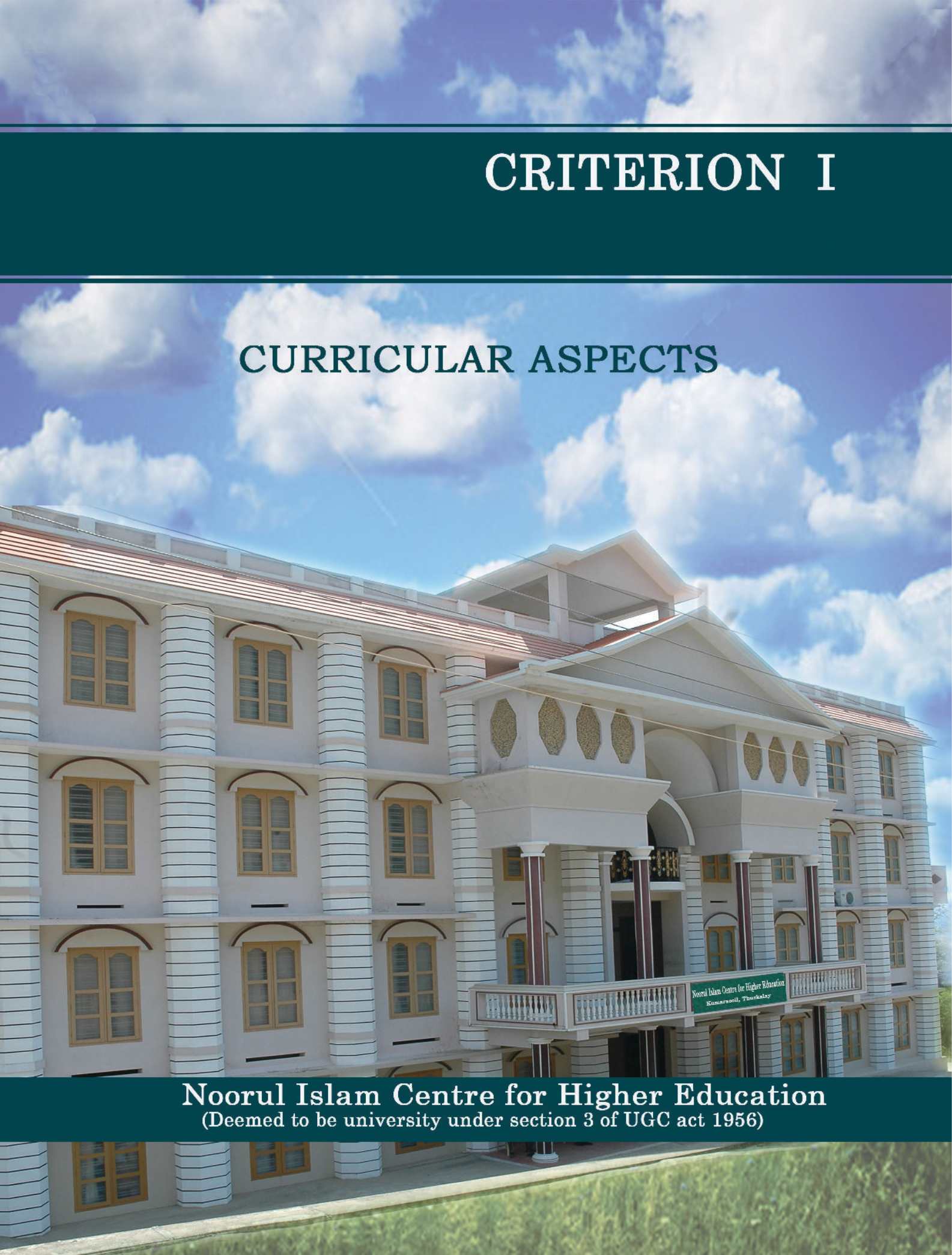
- Autonomy is required for utilization of internal resources for better management and maintenance tasks demanding regular attention..
- Sustaining the pace of development and quality education in view of global trend in higher education. New experimentation and simplifying the designing of course and syllabus of new disciplines are immediately required.
- Maintaining students' placement.
- Encouraging productive research activities.
- Providing quality education to deprived section and underprivileged.
- Enhancement of fees at a level which can be sustainable for University as it is not revised since its inception.
- Harness energy of alumni for their "Time, Talent and Treasure".
- Bringing the University at par with Global Standards of Learning.

Looking Ahead: Future Plans

- Development of new infrastructure such as modern gymnasium, swimming pool, indoor stadium, alumni dedicated guest house and one well equipped large modern auditorium.
- Focus to develop digital campus with sound MIS
- Research centre for Social Sciences and
- e-learning Resource Centre shall be augmented with new technological tools and skilled & efficient human resources.

CRITERION I

CURRICULAR ASPECTS



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

The vision and mission of the Noorul Islam Centre for Higher Education is to promote innovation, scientific technological and critical thinking of higher order, along with the preservation of traditions and wisdom and creation of new knowledge. University has a responsibility to explore new terrain and seek new insights yet retain unique diversified religious and cultural flavour of our mother land India, in a democratic and secular environment on one hand and forward looking in global transformation and culture.

Noorul Islam Centre for Higher Education has built itself upon these founding principles in its quest for Knowledge, free enquiry, secularism, scientific temper, on the one hand, and moral and spiritual value, nation building, national integration, appreciation of diversity in culture and heritage, on the other.

.

Process of Curriculum Development

Formal discussion among the faculty, Feedback & Informal Discussion with the students or beneficiaries:

- Developed through general opinion among students and teachers related to the existing courses of study and by obtaining their feedback on a questionnaire designed and developed for the purpose, over a period of time.

- The above process insures incorporation of the needs and requirements based assessment, including the parameters of market value and employment viability, of both the teachers and students in the design and development of the curricula.

1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes. NICHE follows a systematic multi-level process in the design, development and implementation of the curriculum.
Strategic Planning:- The planning for the curriculum and the courses is done based on the feedback collected from different stakeholders and the directions received from the regulatory bodies like UGC and AICTE.

Design and Development:- To formulate the curriculum and syllabi that help educate the upcoming professionals, each department has a separate Board of Studies with external experts form national level technical institutes and experts from research institutions/industry. The curriculum and syllabi of each course are reviewed critically in the respective Board of Studies meeting. The Board of Studies has the freedom to add/delete/modify the course contents of a course based on the changing needs of the society and industry.

Approval and Implementation:- Academic Council is the higher body which oversees the curriculum and syllabi prepared and presented by the Boards of Studies. Academic Council looks into the curriculum and syllabi for any dilution in the course content or any deviation from the organizational objectives. The curriculam and syllabi are modified so as to in cooperate the suggestions of the Academic Council .

Feedbacks and Reviews:- At each stage, an assessment and a feedback system is in place. The process as elaborated above ensures opportunities for teachers concerned and industry representatives to express their views, and in the Academic Council, all members from various disciplines critically review the proposed curriculum and syllabi. Changes suggested by the programme committee and course committee are also incorporated in the syllabi. The Academic Council which is a platform for the highest academic deliberations in the university has members from various backgrounds including professors, senior administrators, industry experts and other academicians. Therefore the system has adequate checks and balances to ensure that the curriculum adopted has academic coherence and intellectual acceptance.

1.1.3 How are the following aspects ensured through curriculum design and development?

Employability: Each course has core subjects and electives that are designed to equip the students towards the foundational and specialized needs, based on the latest developments in research and technology.

Several departments provide opportunities to study the industrial electives suggested by the leading industries during the course of study. The industrial internship facilitates the students to gain hands on practical experience during the course of study. Further, most of the courses include the subjects that are designed keeping in view the emerging fields and the changing needs of the employment scenario. Compulsory personality development, aptitude and reasoning courses are offered from third semester to sixth semester. In addition all BE/BTech students are given exposure to and basic knowledge of any two foreign languages of the three offered.

Innovation: The innovative practices like introduction of special

electives suggested by the industry and organizing special workshops by the industry experts are provided. This greatly improves the knowledge and skills that graduates develop whilst studying at university, along with the skills and experience they gain from undertaking activities specified in the curriculum.

Research: Research ability among the students is promoted through mini- projects and main project as part of the curriculum and they shall submit project dissertation for the work carried out. Further the students are encouraged to attend Guest-lectures by experts, participate in various seminars/conferences/science exhibitions, academic competitions organized in the university and outside the university. The research competence of the students is enhanced by providing access to all research journals, e-resources and other infrastructural facilities. Students with research interest are provided with avenues to take up projects by joining the team of ongoing NIUSAT Project. The curriculum is designed in such a way that the students are given the opportunity to study subjects which are interdisciplinary in nature, offered by other departments under the category of open electives

1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

The university always complies with the guidelines of the Regulatory Bodies such as UGC, AICTE and DGS and their directives issued from time to time for various professional courses offered. The course structures are designed in such manner that they confirm to the standards and model curriculum provided by the regulatory authorities. However there is a need to obtain feed back data to continuous up-gradation of curriculum

Development of Information Database

Database from faculty:

- Faculties furnish feedbacks through a structured questionnaire that comprehends aspects like relevance of the topics, projects, activities, etc i.e. quantum and details, and quality.

Database from students:

- The students are given a questionnaire to answer questions on the relevance of the curriculum, time allotted, learning, applicability, extent of coverage and the inclusion of projects, and assessments, etc.
- Informal interaction on curriculum with the students is done twice in a semester. This provides feedback on aspects like clarity,

difficulty, complexity of topics dealt in the class/felt by the students during conduct of practice teaching and simulated teaching.

- Curriculum appraisals are distributed to the students and their responses/feedbacks are collected.

Data base from Alumni

- Questionnaire is distributed to the passed out students. Their response is studied for suggesting/making modifications.

Data base from Academic experts

- Views of academics are gathered about curriculum with reference to the needs of society, Psychology of students, Practical aspects, and Development of vocational skills.
- Besides, Workshops are conducted on curriculum development and changes to be made Suggestions made by them are incorporated and necessary actions.
- The Department solicits the suggestions of experts on the curricula during their visits for guest lectures and National and International conferences/workshops.
- Some Research Based intervention are also discussed to be added in the curriculum

After compiling, analyzing and getting and evaluating the feedback, the suggestions are placed before the statutory academic body, for seeking amendments/modification in the curriculum.

Evaluation

NICHE follows Semester System and Choice Based Credit System prescribed by UGC for evaluation of academic courses. In addition to the formal courses, University has also designed need-based value added Courses and syllabi for foreign languages, and personality development, Career planning etc.

NICHE has also introduced new courses in emerging areas like Nanotechnology, Bio-Medical Engineering and Aerospace Engineering.

1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?

University made it an integral part of the course as well as the departments to establish sound linkage with the industries to provide opportunities to study the industrial electives suggested by the leading industries during the course of study. The university has multiple platforms for interaction with industry, research bodies and civil society. Such interactions have always given positive results to make them contemporary in terms of content orientation and application. Interactions take place in various academic forums, conferences, workshops, popular lectures, research collaborations etc. Especially,

courses offered in the emerging and innovative areas in Engineering and Technology area relate directly to industry requirements. To provide hands on training to the students during the course of study, University has signed MoUs with the following Industries.

Sl. No.	**Name of the Organization**
1	Nihongo Sochi, Pune
2	IBM India (P) Ltd., Bangalore
3	Yokogawa India Limited, Bangalore
4	Infosys Technologies Limited, Bangalore
5	AISER Workforce Development Company, Chennai
6	Bulkhead Aerodesign, Cochin
7	CANEUS International , Canada

1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.

University does not have any affiliated colleges.

1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances.

Not applicable.

1.2 Academic Flexibility

The Choice Based Credit System (CBCS) helps transform the traditional teacher-centric education into a learner-centric education. The learner centric teaching -learning process helps the learners transform the knowledge and skills imparted in the class room to real life situations. Academic freedom and autonomy, help in innovation and improves research activity. Our academic stream provides flexibility to the students to opt for different sets of courses according to their interest and industrial needs.

Audit Registration permits a student to enroll in a course for no credit and no grade. This may be offered in higher semesters. Auditing is for acquiring knowledge in the field of interest and improving skill. Audit registration is permitted on the recommendation of the mentor of concerned student, HOD of the Department and Dean of respective faculties and on approval by the Director, Academic Affairs.

If a Student intends to temporarily discontinue his/her course in the middle of a semester for valid reasons, and to rejoin the Program in a subsequent year, permission may be granted based on the merits of the case provided he/she applies through the HOD stating the reasons

there of and the probable date of rejoining the Program to the Director, Student Affairs in advance. Recommendations of the mentor, the HOD, the Dean and the Director, Academic Affairs are essential in this case.

- Break of study shall be granted by the Vice Chancellor only once for valid reasons for a maximum of one year during the entire period of study of the Degree Program.
- However, in extraordinary situations a student may apply for additional break of study, not exceeding another one year by paying the prescribed fee for the additional break of study.
- The student permitted to rejoin the Program after the break shall be governed by the curriculum, syllabi and Regulations in force at the time of rejoining. If the Regulations are changed, then such students shall do additional Courses as prescribed by the Director, Academic Affairs. The Director, Academic Affairs, shall prescribe these additional Courses as prescribed by the concerned Chairman of the Board of Studies.
- The authorized break of study, for a maximum of one year, will not be counted in the duration, specified for passing all the courses and also for the purpose of classification as first class or first class with distinction.

1.2.1 Furnish the inventory for the following: Programmes taught on campus

Under Graduate Programmes :

Sl. No.	Programmes
1.	**B.E.** Aeronautical Engineering
2.	**B.E.** Aerospace Engineering
3.	**B.E.** Aircraft Maintenance Engineering
4.	**B.E.** Automobile Engineering
5.	**B.E.** Biomedical Engineering.
6.	**B.E.** Computer Science and Engineering.
7.	**B.E.** Civil Engineering
8.	**B.E.** Electronics and Communication Engineering
9.	**B.E.** Electrical and Electronics Engineering.
10.	**B.E.** Electronics and Instrumentation Engineering
11.	**B.E.** Marine Engineering.
12.	**B.E.** Mechanical Engineering
13.	**B.Tech.** Fire Technology and Safety Engineering
14.	**B.Tech.** Information Technology
15.	**B.Tech.** Nanotechnology
16.	**BBA** – Bachelor of Business Administration

Post Graduate Programmes :

Sl. No.	Programmes
1.	**M.E.** Applied Electronics
2.	**M.E.** Aeronautical Engineering
3.	**M.E.** Computer Integrated Manufacturing

4.	**M.E.** Computer Science and Engineering
5.	**M.E.** Control and Instrumentation Engineering
6.	**M.E.** Communication Systems
7.	**M.E.** Software Engineering
8.	**M.E.** Structural Engineering
9.	**M.E.** Thermal Engineering
10.	**M.Tech.** Nanotechnology
11.	**M.E.** Cyber Security
12.	**M.E.** Automobile Engineering
13.	**MBA** Master of Business Administration
14.	**MBA-HRM** Master of Business Administration – Human Resource Management
15	**MCA** Master of Computer Applications
16.	**M.Sc.** Physics
17	**M.Sc**. Chemistry
18	**M.Sc.** Mathematics
19	**M.A**. English
20	**MSc.** Software Engineering **(5 Years)**

M.Phil. Programmes

Sl. No.	Programmes
1.	**M.Phil.** Computer Science with Specialization in Computer Applications
2.	**M.Phil.** Computer Science with Specialization in Software Engineering
3.	**M.Phil.** Management Studies
4.	**M.Phil.** English
5.	**M.Phil.** Chemistry
6.	**M.Phil.** Physics
7.	**M.Phil.** Mathematics
8.	**M.Phil.** Biotechnology
Ph.D. Programme is offered by all the PG Departments	

Overseas Programmes Offered on Campus :

No overseas programme is offered

Programmes available for colleges to choose from :

Not Applicable

1.2.2 Give details on the following provisions with reference to academic flexibility

a. Core / Elective options :

Common Core Subjects are there in Semester I and Semester II. Other common subjects are in Semester V, Semester VI and Semester VII. Department level core subjects are given from third semester to eight semester. 25% of the subjects are given as electives from fifth semester to eight semester.

Sl. No	Courses	Regular No. of Credits	Lateral Entry No. of Credits
1	Common Core Courses in 1^{st}&2^{nd} semesters	58	- Nil-
2	Common Core Courses in 4^{th} 5^{th} ,6^{th} &7^{th} semesters	12	12
3	Departmental Core Courses	109-114	109-114
4	Electives (6 courses x 3 credits each)	18	18
5	Project	18	18
	Total	**215-220**	**157-162**

For PG courses, nearly 40% of the subjects are given as electives from first semester to third semester.

Sl. No	Courses	No. of Credits
1	Departmental Core Courses	37
2	Electives (5 courses x 3 credits each)	15
3	Project	24
	Total	**76**

b. Enrichment courses :

For enriching the professional ability of students four finishing school courses of two credits each are given in the third, fourth, fifth and sixth semester. For overall development of the students, great emphasis is given in the curriculum for the development of communicative skills. Apart from the regular English course in the first year; four courses in career skills and presentation skills have been included in the 3^{rd}, 4^{th}, 5^{th} and 6^{th} semesters of all undergraduate programmes.

- logical/critical reasoning
- aptitude technical ability,
- positive and critical thinking,
- entrepreneurial skills etc for better employability.

Other Intramural Courses/activities are also compulsory for the Development of Character, conduct, leadership and team work qualities,

- social consciousness and responsibilities,
- social relations and business ethics.

Other activities include

- NSS, Physical Education
- Sports
- Youth Red Cross(YRC)
- Fine Arts Club
- Photography Club
- Drama Club
- Multimedia Club
- Journalism or Magazine Club
- Yoga Club
- Department Associations
- IEEE Student Chapter
- ISTE Students Chapter
- IET Students Chapter
- GRE, Paper Presentations in Conferences/ Symposiums/ Workshops, etc. Each Course is assigned one credit.

Academic Year 2009 – 2010

Description		**Total**
No. of Projects Submitted		4
No. of Projects Granted		2
No of Publications		82
No of Seminars Organized		7
No of Seminars attended by the Faculty		38
No of Conference Organized	National	2
	International	2
No of Conference Attended	National	28
	International	34
No Of Faculty Development Programs Organized		3
No of Faculty Development Programs Attended		68
No of Department Journals		5
No of Awards Received	Faculty	5
	Student	40
No of Ph.D	Awarded	3
	Registered	44

No of Students Placed		81
Guest Lectures		19
Workshops	Attended	12
	Organized	5

Academic Year 2010 – 2011

Description		Total
No. of Projects Submitted		15
No. of Projects Granted		2
No of Publications		110
No of Seminars Organized		10
No of Seminars attended by the Faculty		95
No of Conference Organized	National	4
	International	1
No of Conference Attended	National	64
	International	22
No Of Faculty Development Programs Organized		1
No of Faculty Development Programs Attended		32
No of Department Journals		7
No of Awards Received	Faculty	10
	Student	50
No of Ph.D	Awarded	3
	Registered	70
No of Students Placed		156
Guest Lectures		28
Workshops	Attended	38
	Organized	9

Academic Year 2011 – 2012

Description	Total
No. of Projects Submitted	24

No. of Projects Granted		2
No of Publications		124
No of Seminars Organized		11
No of Seminars attended by the Faculty		83
No of Conference Organized	National	4
	International	5
No of Conference Attended	National	34
	International	71
No Of Faculty Development Programs Organized		1
No of Faculty Development Programs Attended		36
No of Department Journals		7
No of Awards Received	Faculty	5
	Student	53
No of Ph.D	Awarded	9
	Registered	46
No of Students Placed		380
Guest Lectures		36
Workshops	Attended	48
	Organized	11

Academic Year 2012 – 2013

Description		**Total**
No. of Projects Submitted		8
No. of Projects Granted		8
No of Publications		175
No of Seminars Organized		7
No of Seminars attended by the Faculty		56
No of Conference Organized	National	2
	International	4
No of Conference Attended	National	22
	International	79

No Of Faculty Development Programs Organized		1
No of Faculty Development Programs Attended		15
No of Department Journals		7
No of Awards Received	Faculty	7
	Student	43
No of Ph.D	Awarded	10
	Registered	52
No of Students Placed		85
Guest Lectures		20
Workshops	Attended	63
	Organized	18

Academic Year 2013 – 2014

Description		**Total**
No. of Projects Submitted		12
No. of Projects Granted		3
No of Publications		251
No of Seminars Organized		14
No of Seminars attended by the Faculty		53
No of Conference Organized	National	2
	International	7
No of Conference Attended	National	33
	International	104
No Of Faculty Development Programs Organized		1
No of Faculty Development Programs Attended		23
No of Department Journals		8
No of Awards Received	Faculty	6
	Student	43
No of Ph.D	Awarded	25
	Registered	59
No of Students Placed		120

Guest Lectures		41
Workshops	Attended	44
	Organized	36

Academic Year 2014 – 2015

Description		Total
No. of Projects Submitted		6
No. of Projects Granted		3
No of Publications		237
No of Seminars Organized		9
No of Seminars attended by the Faculty		43
No of Conference Organized	National	3
	International	6
No of Conference Attended	National	33
	International	137
No Of Faculty Development Programs Organized		1
No of Faculty Development Programs Attended		54
No of Department Journals		6
No of Awards Received	Faculty	1
	Student	56
No of Ph.D	Awarded	26
	Registered	40
No of Students Placed		133
Guest Lectures		46
Workshops	Attended	23
	Organized	7

c. Courses offered in modular form :
No.

d. **Credit accumulation and transfer facility** :
Free Electives and Additional Courses are choices to a Student to pursue his/her interest in related disciplines/branches. Students are free to select open electives from other departments also.

e. Lateral and vertical mobility within and across programmes, courses and disciplines

A candidate who possesses Diploma in Engineering/Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent is eligible for direct admission to the third semester of 4 year B.E./B.Tech. Programme

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

NICHE has entered with MoU with Internatioal Universities for exchange of students during their course of study.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

NICHE is in the process of Starting a **Postgraduate Diploma Course in Satellite Technology and Applications** for attracting foreign students. Further the curriculum for UG and PG programmes have been designed to meet the needs of International Students.

1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.

None at present but planning to introduce in near future

1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

We are a self-financing university with no external funding and support for our operations. All the policies for admission, fee structure, faculty recruitment, and faculty salaries are as per the guidelines and norms of the governing bodies (such as UGC, AICTE, DGS).

1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.

As on date face to face mode is followed with use of E-learning and ICT. No Distance education is offered.

1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?

YES. Choice Based Credit System (CBCS) for all the UG and PG programmes has been adopted from 2009-2010 onwards.

1.2.9 What percentage of programmes offered by the university follow:

- Annual system - 0%
- Semester system - 100%
- Trimester system - 0%

1.2.10 How does the university promote inter-disciplinary programmes? Name a few programmes and comment on their outcome.

Catering to the emerging needs of the industry, NICHE has introduced the following Inter-disciplinary courses

1. B.E. Bio-Medical Engineering
2. B.Tech. Fire Technology and Safety Engineering
3. B.Tech. Nanotechnology
4. M.E. Cyber Security
5. M.Tech. Nanotechnology

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

- Statutory Academic Bodies provide guidance which the institution introduces without delay.
- The Institution follows sustainable curricular practices which lead to academic effectiveness and excellence. It correlates the curricular practices with the milieu of the students.
- Innovative practices of teaching are adopted for transacting curriculum.
- Feedback is obtained about the curriculum design from .different resources as described and modifications/changes are suggested/enforced, as the case may be.

An overall review/revision of the curriculum once in four years is normally followed with a view to incorporate the latest trends in the emerging fields and to keep pace with the rate of global technological developments. New electives are introduced every year, based on the emerging requirement in the latest field.

1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

Inter-disciplinary

B.E. Bio-Medical Engineering
B.Tech. Fire-Technology and Safety
B.E. Aircraft Maintenance Engineering

Programmes in emerging areas

B.Tech Nanotechnology
M.E. Cyber Security
M.E. Aeronautical Engineering
M.E. Automobile Engineering
M.E. Structural Engineering

1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

Curriculum is revised once in four years based on the feedbacks and suggestions received from the following stake holders:

i. Students
ii. Alumni
iii. Faculty
iv. External BoS Members (one from industry and one from academic/research institution) and other who visit the university to participate in seminars/conferences/deliver guest lectures.
v. Emerging Trends and Inductrial Needs

All UG and PG programmes underwent syllabus revision

1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

To take care of the overall professional development of the budding professionals, a set of Intramural Courses has been introduced from third semester to seventh semester. They are designed to acquire soft skills of communication, presentation, discussion, aptitude, logical/critical reasoning, technical ability, positive and critical thinking, entrepreneurial skills etc for better employability.

In addition, all students have to register for the compulsory personality development courses of one credit each. A student may register for a minimum of five courses from 3^{rd} to 7^{th} semesters subject to the following conditions:

- A student has to register for at least one course in each semester.
- A student can register for a maximum of two courses in a semester.
- All personality development courses are one credit courses.
- At the end of seventh semester, a student has to earn minimum five credits for the successful completion of the Degree.
- In each registered Finishing school/Personality development course,

a letter grade will be awarded according to the seven scale letter grading (S, A, B, C, D, E, F) scheme based on the performance of the students.

1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

NICHE has introduced skill development programmes based on the rural societal needs. The programmes introduced are:

- Seeweed cultivation training
- Computer Training to school teachers
- Engineering design
- Cyber Security
- Civil Service Examination Training by (NIMS IAS Academy)
- In addition, short term training programmes are organized by the department and the details of programmes organized are enclosed in the Department Evaluative Reports.

1.4 Feedback System

1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

YES. NICHE has a formal mechanism to obtain student feedback regarding the curriculum and its teaching. The feedback from students is collected using the in-house format. Feedback is given to the teacher concerned for information and corrective measures, if needed.

Every class has a Class Committee, normally constituted by the HOD, within the first week of each semester. It acts as the Quality Assurance Circle with the overall goal of improving teaching-learning process for the class. The members of the committee include four student representatives. It meets three times in a semester for informing the course regulations and obtaining feedback from the students about the changes required in the curricula and teaching - evaluation process.

Every programme has a Program Committee normally constituted by the HOD. It acts as the Quality Assurance Circle for improving the quality of the Program**.** It meets at the beginning of a semester, at the end of each test and before the university examination. It Provides the nature and scope of Continuous Internal Assessments (CIA) in consultation with the course teachers and inform the same to the students in the beginning of a semester. It discusses the problems concerning curricula, syllabi and conduct of classes, and periodically reviews the progress of each class and implements effective teaching-learning processes. When a common Course is offered to more than

one discipline or group, a Course Committee is constituted. It acts as the Quality Assurance Circle for common Course. All the teachers teaching the common Course are its members with one of them acting as the Chairperson.

1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

The faculty members discuss the curriculum and syllabi with national and international faculty who visit our campus and during their participation in national and international conferences & workshops. Our faculty members also interact with faculty from national level institutions like IITs, IISc, and NIT through direct meeting.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

Does Not Applicable as no affiliated college

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

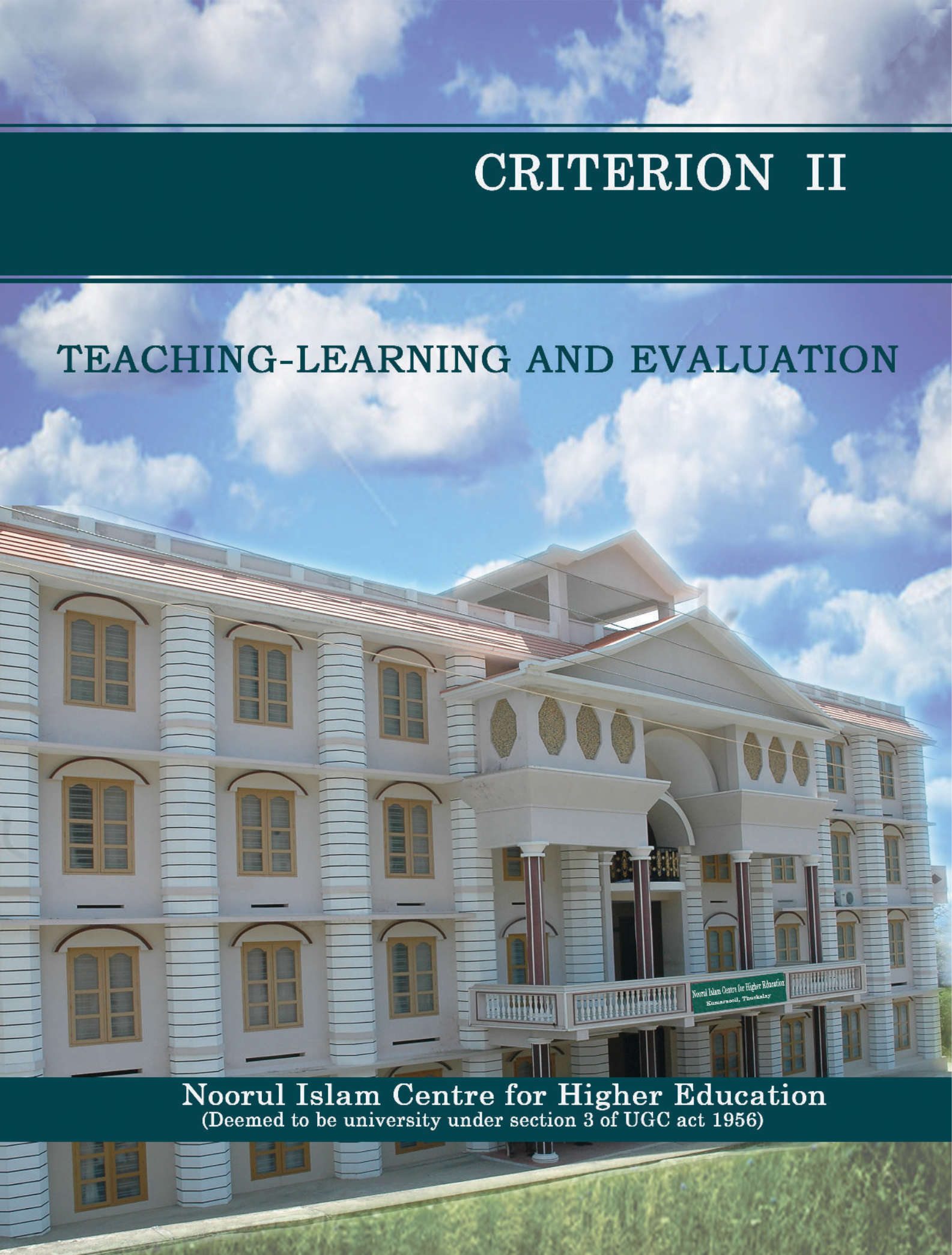
The curricula and syllabi of all UG and PG programmes of NICHE are revised once in every four years. The faculty members report the need for improvements in the syllabi of the courses to the Board of Studies. BoS reviews the existing syllabi in the light of new knowledge or changing societal requirements. Finaly the recommondtions regarding curriculum revision is placed before the Academic Council for approval.

In the case of postgraduate courses being run in the Departments, ten percentage modifications can be made by the faculty in the existing syllabi with prior approval of the Vice-Chancellor to incorporate the latest developments, if any. It is the responsibility of the BoS to report and take the approval of the Academic Council for such minor changes in the syllabi.

The Board of Studies prepares the requirements for teaching such as textbooks, supplementary reading reference books, laboratory equipment and consumables. Further BoS suggests to the organization of the training programmes for students as well as teachers, like specialized lectures/talks, workshops and other scientific programmes.

CRITERION II

TEACHING-LEARNING AND EVALUATION



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the university ensure publicity and transparency in the admission process?

University follows a transparent admission process for admission of new students every academic year.

The process of admission changes depending upon the quantum of students seeking admission in a particular department, and discipline.

Admission notification for UG, PG, MPhil and PhD programmes are advertised in English and Vernacular newspapers and the same is published in the University website. The admission details and the eligibility norms are available in the University Information Brochure published every year and the same is available in the University website.

Admissions to all the programs are provided based on the marks obtained in the qualifying examination and entrance exam conducted by the University. List of candidates eligible for admission is published in the website and intimation letter is also send to the individual candidates.

2.1.2 Explain in detail the process of admission put in place by the University. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the University (please specify).

Merit

In the departments, where number of aspirant for admission are relatively less, the merit of previous examination i.e. Merit with Entrance Test

In some courses and departments where higher numbers of admission seekers apply for the admission Entrance Tests are also administered. In such cases merit deemed to serve as eligibility criteria only, the weightage is given to the scores obtained on Entrance Test Examination.

Process of Admissions:

Notification of the admission process is published every year in the leading national and regional newspapers. It is also published on University website, which contains all the details regarding admission process.

In various courses the detail process of admission is given to the aspirants through the brochure supplied by the prescribed admission form.

Entrance Tests (where applicable) are conducted at various centres identified by the Admission Committee.

A merit list is displayed on the on the department's Notice Board as well as on University website.

The State Government reservation policy is strictly adhered to.

Eligibility of the students at the entry level is fixed by the University as per State/Central Government and other regulatory bodies.

Merit with Entrance

Admission to all UG, PG and MPhil programmes are based on the minimum prescribed marks scored by the applicant in the qualifying examination and the performance of the candidate in the entrance test conducted by the university.

Merit, Entrance Test and Interview
Admission -Ph.D Programmes

The research scholars desirous of joining the Ph.D. programme should apply in the prescribed application form, through proper channel wherever applicable, before the due date as indicated in the notification issued from time to time. The eligible applicants shall be called for a written-test. Based on the performance in the written test/NET score, successful research scholars shall be shortlisted and called for interview by the selection committee constituted for that purpose by the University. The short listed research scholars on the basis of their performance in the interview shall be forwarded to the BRDC for approval. The BRDC shall follow the state/national reservation policy for the admission of Ph.D. programme. Research scholars whose selection is approved by the BRDC will be intimated about their selection with copies marked to the concerned research guide and the sponsoring institution, if any.

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

No college is affiliated with the university, thus nil report

2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

YES. The committee constituted under the chairman ship of Director Admissions of the University conducts the meeting to review the admission process. This Committee evaluates the input quality and the demand of the courses at the time of admission and plan for the changes if any, to be made in the admission notification in the subsequent academic year.

2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- **SC/ST**
- **OBC**
- **Women**

- **Persons with varied disabilities**
- **Economically weaker sections**
- **SC/ST**
- **OBC**
- **Women**
- **Persons with varied disabilities**
- **Economically weaker sections**

SC/ST/OBC

NICHE follows the reservation policy of the state government. As per the above policy, reservation category (SC/ST, OBC) students are admitted.

Women

Separate hostel within the University campus for hassle free stay is provided and preference is given in the admission even though there is no special reservation for women candidates.

Persons with varied disabilities

Ramp facility is provided to the physically challenged students. Ground floor class rooms are provided to them. Vehicle parking is nearer to the class room itself. They are given priority in queue and given assistance to all services. In hostel, the ground floor is allotted for the students with physical disabilities.

Economically weaker sections

Scholarship and loan facilities are prioritized for them. Special cells are started to handle their problems within and outside the campus. University maintains equity among all students. Further fee concessions are also provided by the management for needy.

Outstanding achievers in sports and other extracurricular activities

For outstanding sports and other extracurricular achievers University has reserved 5% seats in all courses of UG & PG Level in the campus as well as its constituent and affiliated colleges, which is providing edge to such distinguished achievers in the field of academics.

Additional coaching materials and career guidance are provided to the outstanding achievers. Special coaching classes are conducted by special experts for civil service exams.

2.1.6 Number of students admitted in university departments in the last four academic years:

UG Courses

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	6	-	7	1	6	1	4	1
ST	-	-	1	-	1	-	-	-
MBC	10	6	10	2	8	3	23	6
OBC	153	16	270	50	317	53	270	47

General	355	76	196	43	107	22	115	21
Others	-	-	-	-	-	-	-	-
Total	524	98	484	96	439	79	412	75

PG Courses

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	1	1	-	-	1	-	2	2
ST	-	-	-	-	-	-	2	-
MBC	-	-	-	-	-	-	-	-
OBC	53	46	73	110	89	154	101	132
General	57	72	87	69	36	36	26	26
Others	-	-	-	-	-	-	-	-
Total	111	119	160	179	126	190	131	160

Ph.D Courses

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	-	2	1	2	1	-	-	1
ST	-	-	-	-	-	-	-	-
MBC	1	-	4	-	-	3	1	-
OBC	-	-	1	1	3	8	-	-
General	-	-	2	-	-	-	-	-
Others	28	33	30	26	28	38	48	45
Total	29	35	38	29	32	49	49	46

2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

Yes, the university conducts analysis of admission every year and the demand of various courses in each programme. Infrastructure facilities are enhanced in the selected departments based on the demand. This helps in evolving strategies to invest further to improve infrastructure need and to assess the current trend in students' preferences. Demand ratios of programmes offered are tabulated.

UG Programme:

Year	Number of applications	Number of students appeared for Entrance Exam	Number of students admitted	Demand Ratio

2009-2010	1301	1010	771	1:2
2010-2011	901	856	483	1:2
2011-2012	1021	912	624	1:2
2012-2013	754	723	580	1:2
2013-2014	767	675	518	1:2
2014-2015	620	580	487	1:2

PG and M.Phil Programme:

Year	Number of applications	Number of students appeared for Entrance Exam	Number of students admitted	Demand Ratio
2009-2010	780	600	232	1:3
2010-2011	341	325	180	1:3
2011-2012	336	325	230	1:4
2012-2013	529	501	339	1:5
2013-2014	721	696	316	1:4
2014-2015	623	486	291	1:4

Ph.D. Programme:

Year	Number of applications	Number of students appeared for Entrance Exam	Number of students admitted	Demand Ratio
2009-2010	123	95	45	1:2
2010-2011	210	178	43	1:4
2011-2012	313	267	82	1:3
2012-2013	308	283	70	1:4
2013-2014	348	317	82	1:4
2014-2015	441	396	95	1:4
2015-2016	288	196	77	1:3

2.1.8 Were any programmes discontinued/staggered by the university in the last four years? If yes, please specify the reasons.

No

2.2 Catering to Diverse Needs of Students

2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

YES. Every academic year, the commencement of the academic programs in NICHE starts with a general Welcome-cum-Orientation program to students wherein the students are sensitized about the scope, objectives and opportunities available

of the subject of study, about campus facilities, the need to avoid ragging and time management for academic excellence.

The Vice Chancellor personally welcomes all the new entrants, and the Deans of various Faculties and Department HoDs are introduced to the students.

Orientation Programme is conducted every year for the first year B.E/ B.Tech students. A committee comprising of deans, directors and the members of faculty belonging to various streams named Orientation Program Committee is constituted for this purpose. This committee is entrusted with the responsibility of conducting the program in batches of 50- 60 students.

The fresher's who join the university after they complete their school education find it difficult to cope with the subjects taught. This Orientation Programme is organized in such a way in the campus that it acts as a recapitulation of what is already learnt and an introduction to what they are expected to learn in I & II semesters along with communication skills.

Orientation components include motivational factors such as explaining the unique features, scope and mentoring system of the university together with a brief introduction to the basics of English Grammar, Engineering Physics, Chemistry, Mathematics, Graphics and Fundamental of computing and Programming - the subjects which are to be taught to the students in the first semester.

The following areas are covered in the orientation programme:

- Spoken English
- Students to visit all the labs of the University
- Special Lectures in Science, Engineering and Management subjects by Senior Professors.

To motivate and inspire the students, the talks by the Senior Professors touches upon the content and scope, inventions and innovations, the relevance of their subject to the societal needs of their respective subjects/departments.

- Yoga Classes
- Training on oratorical skills
- Curricular/Academic Discipline
- Talks on Students' Etiquette, Ethics and Manners etc.
- Sports/ Physical Exercises
- Placement/Soft Skills

Apart from these University has additional thrust on that have a direct impact on student outcomes:

- Making connections to the students' lives. For example, it is done by using their own experience as a point of comparison to learning about others' experiences.
- Aligning experiences to important outcomes. It identifies prior knowledge which is important to current and future learning.
- Designing experiences that interest students. It follows the norm that learning needs to be as memorable as possible for enhancing understanding of ideas and processes in the social studies. Teachers

monitor the academic performance and offer counselling to students.

- Most of the teachers supplement the lecture method of teaching with other, innovative methods of teaching such as seminars, class presentations, use of audio-visual aids, etc.
- Teachers also organize star batches for the advanced learners – wherein the students under guidance study on their own and present their findings. The concerned teacher caters to a group of 8--12 students to take up minor research projects.
- Importance is given to extra and co-curricular activities. Various activities organised help students to develop their talents as well as gain practical experience in organising and managing various events.
- The teachers encourage the students to raise questions in the class, to participate in seminars, to join study tours, to make use of reference books, journals, etc. They prepare teaching plans, unitize syllabi and try their level best to cover their portion in the stipulated time
- Students are given choice of medium.
- Based on the diagnostic tests and their achievement in the house examination remedial coaching is provided to the students.
- Internet Facility: Internet and computer facility is provided to the students.
- The University has a rich library with books, titles Journals and newspapers which cater to the diverse learning needs of the students.

2.2.2 Does the university have a mechanism through which the "differential requirements of the student population" are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Since different categories of students are admitted, their exposure levels are also different. During the conduct of classes, exposure levels of the students are identified based on their performance in the class by the faculty and suitable coaching / counselling are given for the needy students.

Information pertaining to the differential requirements of the student population - region, gender, caste, religion, and tribe - are solicited in the admission form supported with documents. This information is maintained by the University and used for merit-based nomination for admission under certain categories and also for allotment in hostels.

After admission, students with weak competence level in language proficiency and computer awareness, etc., are provided with supporting programmes in various Departments. Students from financial underprivileged background are provided with financial assistance like half and full waiving of the fee and Scholarships sponsored by State Government, State Minority Commission and some other Scholarships attached to the University.

Further communication skill development classes, Aptitude

skill development classes, Reasoning Skill development classes, Soft Skill and Software Skill development classes are also conducted through Intramural Activity.

2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

The need to arrange or to include as part of the structured time-table such bridge /remedial courses have so far not arisen. However, selected departments arrange special Lectures/ need- based Tutorials to enhance skill sets of students. In some departments, these courses are conducted by the external/visiting faculty wherein the training sessions are arranged at weekends so that they do not interfere with regular teaching.

Further, in order to empower the students, spoken English, personality development courses, communication skills, etc. are included in the timetable as part of Intramural courses.

During the academic year 2015-16, a ten day Advanced skill development program was conducted by the Placement and Training Directorate for the final year BE/BTech, MCA and M.Sc SE students.

2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

NICHE does not have a formal mode to survey the academic growth of disadvantaged sections. But the academic growth are closely monitored by the Mentors and the HOD concerned based on the evidences of the following records:-

- Series test analysis
- Student's arrear details
- Close observation of class room behaviour
- Counselling done by mentors and course teachers
- Peer group study, supervised study and peer coaching.
- List of Economically backward students in each batch
- List of physically handicapped students in each batch
- List of slow learners in each batch

It is observed that during the last four years, there has been a steady increase in the pass percentage and appreciable achievement levels among the disadvantaged sections of students.

- Admission to such students is encouraged and given on the basis of merit cum nomination under quota of SC, ST, OBC and differently-abled or economically backward categories.
- Hostel allotment with easy accessibility and fee concessions are also provided to them.
- Special courses and programmes are arranged for these students and the slow learners by the respective departments.

- Training and Placement Cell also assists them in procuring appropriate jobs.

2.2.5 How does the university identify and respond to the learning needs of advanced learners?

Advanced learners are identified based on their interaction during lecture hours and based on their performance in the class and by tests/examinations. The advanced learners are given special guidance by their respective mentors to access advanced reference material. The Course curriculum provides them scope for opting advanced electives for additional credits.

They are facilitated with an enriched experience of pre-service exposure to institutional affairs, systemic nuances, administrative issues and organizational needs through their participation in the different elected bodies of the University, organizing-committees for seminars & conferences. There are provisions for undertaking projects and initiating autonomous academic activities for the advanced learners.

Thrust in research is whetted by motivating them to attend summer / winter schools in research institutes, apply for students' projects from funding agencies, participate and present research papers in seminars / conference at collegiate / inter-collegiate / state / regional / national levels and publish articles in reputed journals. Outstanding students are encouraged to file applications for patents. (Details of students participated in symposiums and conferences are given in the Department Evaluative Report)

2.3 Teaching-Learning Process

2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

Before the beginning of every academic year, Director Academic Affairs announces detailed academic schedule for all Programmes/Courses offered by the University based on the guidelines of UGC taking into account the mandatory number of working days (90 days per semester).

The plan for teaching-learning process is organized at the department level at the beginning of the every semester. The Head of the Department concerned conducts meeting with all the faculty members and allots subjects based on their interest. Then the time table is prepared and circulated to the students. The faculty members prepare the Lecture Plan at the beginning of the semester.

The student evaluation of the teachers is a regular feature and done at the middle and end of the semester. Students have to submit their feedback and it is consolidated by the HOD and presented to the higher officials for follow up action. Apart from this, Vice Chancellor, Registrar, Deans and HODs interact with the students

and obtain their feedback. The feedback received will be discussed with the teachers concerned and if necessary, they will be counselled and advised by the university officials.

At the beginning of the semester, the copy of the syllabus is provided to the student.

The staff offering different courses prepare lecture plans and maintain a record of the syllabus coverage details to ensure a smooth coverage of the syllabi. For practical subjects Manuals available in each laboratory serve to expose the facilities and capabilities of each instrument/equipment.

Before the end of each academic session, the Department holds a meeting of all the faculty members at the Board of Courses and Studies (BOCS) level discusses the various courses to be offered to the students in the forthcoming session, modification needed in the syllabi and allots the course to be taught in the next academic session by a faculty.

2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

NICHE provides copies of the regulation, curriculum and syllabus to all the students and the same is also available in the University website. The number of contact hours per week is based on the credit allotted to the subject. The teacher conducts classes and assessment tests as per academic schedule announced by the Director, Academic Affairs.

The implementation of the process is discussed in the meetings of course committee, Programme committee and class committee and the effectiveness of the process in ensured.

However, in the wake of any unexpected distractions the University ensures the successful completion of the curriculum through extra/remedial classes and shortening as well as cancelling summer/winter vacations

2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

No. The University does not normally face any problem in completing the curriculum. This is mainly due to the meticulous planning and execution of the academic schedule.

However, during extraordinary situations the academic schedule has been altered and extra classes have been conducted to compensate for the days lost.

2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The Choice Based Credit System (CBCS) helps to transform the traditional teacher-centric education into a learner-centric education. The learner- centric teaching- learning process helps the learners to transform the knowledge and skills imparted in the class room to real life situations. Academic freedom, under autonomy, helps for innovation and improves research activity. Our academic stream provides flexibility to the students to opt for different set of courses according to their interest and industrial needs.

As the hall mark of blending technology for effective teaching learning process, the following facilities are made available for the faculties and students of our University

- Data Centre with Xeon Quad Core Blade Server setup with huge repository of course materials.
- Interactive web based course materials and large video repository of technical lecture-courses in the streaming video format.
- The "ANYTIME ANYWHERE" access facility in the entire campus including the hostel premises (both Boys and Girls) are enabled with Wi–Fi facility. With this facility one can get access with the help of their Laptops which are provided to the students at a subsidized cost and other Wi-Fi enabled devices to the Internet and the different Intranet applications including the Digital Library and E – Learning.
- Smart Class Room in all Departments with Interactive Boards and other teaching aids.
- Digital Knowledge Centre with access to a wide range of Journals, Magazines and Conference Proceedings.

The University Regulations are based on CBCS. In this system, a Student has **choice** to Register for any additional Course or free elective (i.e., other than department electives) offered by the University and permitted by the Regulations. In **credit system,** quantum of Work is measured in terms of **credits**. In this system, a Student has to Register to a set of Courses prescribed in the Curriculum, at the beginning of the semester. Then he / she **earns** credits by passing in each Course and obtaining a valid letter grade for the Course. Requirements for a particular Program are specified in terms of minimum number of credits to be earned.

Credits for a Course are based on number of instruction/contact hours be it lecture/tutorial/Practical per week. Credits are assigned to Theory, Practical, Seminar, Project, etc. The Board of Studies (**BOS**) of the department offering the Program stipulates the number of credits for each Course.

Credit assignment:- One credit is assigned to a Course for one contact hour of lecture/tutorial per week or two contact hours of Laboratory/Practical/Seminar/Project per week or one week of Industrial Training during semester breaks.

Course structure:- It consists of two types of Courses viz., Theory Courses without Practical component and Practical Courses having both Theory and Laboratory Training or Laboratory training only. Prerequisites, if any, for a Course offered in a semester are specified so that a Student may Register for the Course after satisfying such requirements. Prerequisites are normally assigned to elective Courses. There are no prerequisites for core Courses of a Program.

2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

University encourages Departments to organize national / international seminars, conferences, workshops etc. which provides a platform to invite experts / people of eminence to deliver lectures and share their experiences.

In addition Eminent professors/scientists are invited to departments to deliver lectures on emerging technology. Alumni who have distinguished themselves in various fields are also invited to share their experience in an interactive forum organized by alumni associations.

- Special budget is allocated and funds are allocated every academic year for Departments of studies to invite eminent professors, scientists, public speakers, corporate leaders and highly successful alumni to deliver lectures, talks, discuss and give workshops to the students.
- Each Department has an internal procedure too, for research and PG students in which the Departments invite experts on specific issues individually and discussions/ lectures are held as per the need of the students.

2.3.6 Does the university formally encourage blended learning by using e-learning resources?

As the hall mark of blending technology for effective teaching-learning process, the interactive web based course materials and large video repository of technical lectures-courses in the streaming video format are made accessible to the faculties and students via Intranet.

NPTEL (National Program for Technology Enhanced Learning) - a joint venture by seven IIT's and IISc to devise and guide improvement in Professional Education provide Access to NPTEL video lectures that pave the way for the University students to listen to the lectures of the best teachers in the country. Further the course contents are modularized into core concepts and topics which are add-ons to the course for better understanding. This fills the gap that exists between IITs and new the born Universities in terms of providing quality and focused education

The University encourages blended learning. The students utilize e- learning resources available to enhance their knowledge better. The University Library has Digital Knowledge Centre to cater to the needs of the students. The Wi-Fi enabled campus encourages blended learning by way of providing access to e-learning resources.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching

University has developed E-learning facilities are available in all the Departments through internet connectivity.

Every teacher has a laptop facility.

Open educational resources are used by the faculty and students for teaching and learning.

E-mail correspondence is encouraged

Faculty members are trained in user awareness programmes for the use of e-learning resources and Open Source Learning.

24x7 wifi enabled campus with Access to internet.

Online Access to Monographs, latest books, journals with impact factor etc., in the library. Exposure through national and international seminars, conferences, and workshops. The open educational resources available through web are assessed by every course teacher and are recommended to the students for further reference after considering its authenticity. Utilization of latest technologies and facilities like computer aided simulation tools, language lab, and other e-learning resources for effective teaching.

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

There is no formal group among the faculty to monitor the trends and issues regarding developments in Open Source Community. The e-Learning initiatives at the University have been through the initiatives by group of faculty members. Several informal talks/presentations were given by visiting experts to sensitize the students regarding open source community.

The university library takes initiatives on the recommendation of the departments for enhancing access of students and faculty members to wider e-learning avenues including open educational resource community. Students who done there projects in innovative areas are encouraged to registerfor patents.

2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?

- E-copy of Short answer Questions and their answers are uploaded in the University Digital Library portal for ready reference.
- Power Point Presentations and video lectures of selected subjects are uploaded in the University Digital library server.
- Providing 24x7 Wi-Fi connection to access internet with individual user id enables the student read the lecture notes and other course content at any time

- NPTEL course content and other open Source course materials are also made accessible to the students
- Further free **access to** e-books/journals through intranet certainly facilitates 24x7 learning process.
- Library services are available to the students even after regular working hours.

2.3.10 Is there a provision for the services of counsellors/mentors/advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Yes. Each faculty is assigned a group of twenty to twenty five students for whom he/she functions as a mentor. The purpose of this practice is to have a close rapport between the students and the faculty, to provide guidance to students on all academic matters besides personal counseling and to enhance and enrich the professional capabilities of the students.

The main focus of mentorship is to take care of the needs of the students and to develop the personality of the students and to make them more professionally competent. The mentors assist the students to cope with the curriculum, understand the University's expectations of its students, participate in co-curricular and extracurricular activities, solve personal issues, as well as groom their skills and aid in personality development. In addition to the mentor, students may also seek counsel from the HOD and other faculty members.

- At the P.G. Level according to specialization and elective choice of subjects the concerned teachers are having more close and intimate relationship with the students or group of students and they provide effective academic, personal, psycho-social guidance at personal level.
- Counselling facility offered at the time of admission enlightening the student on selection of courses, progression and placements.
- Guidance relating to placement opportunities offered by Placement Cell.
- Guidance relating to various opportunities offered by the University Placement Cell and their orientation programmes.
- Mentoring the students for preparation of various competitive examinations.
- Majority of the students get benefit by the above mechanism and process of counselling and guidance adopted by the University.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Smart class rooms with digital technologies like LCD provided in each department, creates real time learning experience inside the class room. Animation mode of presentation helps to teach complex concepts. Video lessons are used for better comprehension.

Special coaching is provided for enhancing aptitude and reasoning related skill set. These innovative practices enable better comprehension of the subject and promote interaction in the classroom.

2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

"**NIUSAT Program**" initiative, made during the academic year 2012-2013 under ISRO Student Satellite Program has progressed very well. Now, the project management system is defined and the project teams are established with NIU faculties and students towards the development of NIUSAT Mark- I and its launch by PSLV of ISRO. The Preliminary design of the NIUSAT Mark-I was presented to ISRO and approved.

Infrastructure, Assembly, integration and check out facilities, including Clean room, Research Laboratories and Ground station with communication links from and to orbiting Satellite are being established. Collaboration with Indian industries for technology development, facility establishment and production during commercialization are in place. MOUs are established with National and International agencies, including one for payloads with SAC-ISRO, for guidance and technical assistance in the development and application programs at national and global levels.

The development of the major sub systems like, satellite structure, Electrical Power System (EPS), On Board Computer (OBC), Telemetry and Tele Command (TTC) Transponder, UHF/VHF transceiver, S Band Payload transmitter are designed and developed by NIUSAT Team. The Optical payloads, a 3 band multi spectral camera with 30m resolution and a SWIR camera with 120 m resolution is developed with the assistance of Space Application Center SAC, ISRO and with the support of Aerospace Industry. The Engineering Qualification Model (EQM) of the NIUSAT Mark I is in the final stages of testing.

An Integrated ground station comprising of Antenna systems, Mission control center and image processing facilities are created at the NIU, for the reception and processing of the TTC and payload data.

Apart from it -

- Teachers are encouraged and provided financial assistance to hold and participate in workshops, seminars, give lectures, discussions and contribute to the policy making of the scientific forums.
- Students are encouraged to participate in science events nationally as well as internationally.
- Exhibitions, presentations, demonstrations, lectures and suggestions of the scientists and acclaimed researchers are organized by the University.

2.3.13 Does the university consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?

YES. Under CBCS scheme project work / dissertation becomes a mandatory component in all UG and PG programmes and offered as a compulsory core subject. All post graduate programs of the University have project work as a part of the curricula, wherein, students are encouraged to publish the research work in Journal/Conference. The students are also encouraged to do their project work in other Research institutions/ industries. In some Departments, students carry out project work at BARC/ CSIR lab. In a few other programs like MBA students undergo internships in the industry anywhere between 8 weeks to 6 months duration.

2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

YES, University has well-qualified faculty with PhD in diversified areas of specializations, which helps to design, develop and implement curriculum. Wherever there is shortfall, human resource is supplemented by appointing temporary teachers on contract basis. Faculty at department level update the curriculum by discussing the course content with external experts through emails and also by inviting them for interaction. There is also provision for External

Members on BOS to advice in such matters.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/learning materials? What are the facilities available in the university for such efforts?

Most faculty members are well versed with computer-aided teaching and all the Departments have been provided with smart class room facility to promote computer aided teaching. Special training is given to faculty members towards usage of latest technology in the teaching-learning process in collaboration with IIT Bombay under National Mission in Education through ICT program.

Smart classrooms equipped with laptop and LCD/overhead projectors, audio/Video facilities, and Internet facilities to facilitate computer-aided teaching and the use of educational software packages.

2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

The feedback from students on the quality of teaching and performance of faculty members is obtained through feedback forms provided by the university to the departments. The individual departments keep track of the teaching-learning process through regular interactions with students by the heads of the departments and senior teachers. These initiatives help in improving their retention, regularity and performance parameters.

2.4 Teacher Quality

2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

All newly recruited faculty members are required to attend Orientation and Refresher Courses, organized by the Human Resource Management Department in the beginning of each academic year. Further faculty members are deputed to attend workshops, conferences, symposia. To give fillip to this process the faculty members are also encouraged to take part in summer/winter schools/training workshops in their respective specializations.

To facilitate professional growth and Academic up-gradation, University has recently set up Academic Staff College. The following programmes have been conducted

- The organized special workshops on the revision of syllabi for its faculty members.
- The faculty members are deputed to attend refresher courses, training programmes and workshops as and when they are scheduled.
- Permanent teachers are encouraged to participate in the workshops organized by by the Academic Staff College.
- The faculty is motivated to attend and participate in seminars, conference, video-conferences to acquaint themselves with advancement of knowledge and recent trends in the relative subjects.
- Departments are encouraged to organize workshops to orient college teachers on new topics/units introduced in syllabi

2.4.2 Furnish details of the faculty

The Educational qualifications of the various faculty members are summarized in the following t

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	1						1
Ph.D.	31	5	14	12	19	16	97
M.Phil.			3	1	10	24	38
PG	6		14	4	70	45	139
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part-time teachers							
Ph.D.							
M.Phil.							
PG							

2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

Sl.No	Department	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries	Total No. of Faculty
1	Aeronautical Engineering	10	80	10	-	11
2	Aerospace Engineering	-	64	36	-	11
3	Automobile Engineering	14	86	-	-	7
4	Bio-Medical Engineering	-	66	33	-	12
5	Computer Sicence and Engineering	10	80	10	-	20
6	Civil Engineering	-	92	8	-	13

7	Electrical and Electronics Engineering	-	86	14	-	14
8	Electronics and Communication Engineering	-	94	6	-	18
9	Electronics and Instrumnetation and Engineering	-	100	-	-	11
10	Information Technology	-	94	6	-	17
11	Mechanical Engineering	7	89	4	-	28
12	Marine Engineering	-	81	19	-	11
13	Nanotechnology	-	100	-	-	10
14	Master of Computer Applications	-	100	-	-	7
15	Business Administration	6	74	20	-	15
16	Software Engineering	-	93	7	-	15
17	Physics	-	100	-	-	6
18	Chemistry	-	100	-	-	9
19	Maths	14	86	-	-	14
20	English	6	70	24	-	17

2.4.4 How does the university ensure those qualified faculties are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

Appointment of qualified faculty has been a regular and routine practice at NICHE. University has taken adequate steps to give wide publicity through newspapers, and also website to recruit qualified faculty members in the emerging areas.

Sl.No	Department/Course	No. of Faculty appointed during the last 4 years
1	Nanotechnology	5
2	Bio-Medical Engineering	3
3	Cyber Security	3

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

Emeritus / Adjunct Faculty : **Nil**
Visiting Professors : **9**

2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers? (*e.g.* providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)?

University has well organised system and policies to enhance the academic quality and research activity of the faculty.

- By providing research grants from internal resources in addition to the UGC, CSIR ,DST and other national level financially sponsoring bodies for research activities and project works, either individually applied or initiated by the Department for research programmes.
- The University has statutory provision to sanction study leaves to the faculty for the research within the mother land India or abroad depending upon requirement.
- Granting duty leave and financial assistance to the faculty for participating in national and international seminars, conferences, workshops and training as per the UGC guidelines.
- The faculty is encouraged to submit major research projects to different funding agencies.

Need based grants provided to the Departments to organize national and international , conferences and workshops

University provides travel grants to faculty members to participate in the international conferences/meetings. New faculty members joining the departments with PhD are motivated to write proposals/to conduct pilot research and seed money is provided for the purpose. Sabbatical leave is provided to eligible faculty for their study and/or research in India/abroad. Faculty members are routinely deputed to attend seminars, in-service training. Faculty members in permanent service are provided study leave to acquire higher qualifications. Due encouragements results in the organisation of a number of national and international conferences / workshops every year. for instance during the academic year 2014-2015 alone 7 national

seminars , conferences and 6 international conference were organised by different departments.

2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

NICHEs Faculty members continue to receive awards and recognitions at various levels. List of selected awards are listed in the following table. Complete awardees list is available in the department evaluative report.

Sl. N	Name of the staff	Designation	National/ International	Details of awards or recognition
1.	Dr. R.C.Mehta	Professor	International	Senior fellow, Nanyang technological university, Singapore.
2.	Dr. R.C.Mehta	Professor	International	25 years senior member recognition certificate from American Institute of Aeronautics & Astronautics.
3.	Dr. R.C.Mehta	Professor	International	Life time achievement award, Flow physics society, India.
4.	Dr. M.Murugan	Associate Professor	National	ALL INDIA SECOND PRIZE "Sahajanand Laser Technology SUSHRUTA INNOVATION AWARD" 2011-12 MSME, Govt. of India & National Biomedical Engineering Society
5.	Dr. M.Murugan	Associate Professor	National	BEST paper BRONZE MEDAL,Bharathidasan University
6.	Prof. R. Mathusoothana S. Kumar	Associate Professor	National	IET - MEN Engineers Award(2012)
7.	Prof. S. Maria Celestin Vigila	Associate Professor	National	IET – WOMEN Engineers Award(2012)
8.	Dr. S. Balamurugan	Associate Professor	International	**Alexander von Humboldt (AvH) Research Fellow** by Alexander von

				Humboldt (AvH) Foundation, **GERMANY** (April 2009 – March 2010).
9.	Dr. S. Balamurugan	Associate Professor	International	**Alexander von Humboldt (AvH) Research Fellow** by Alexander von Humboldt (AvH) Foundation, **GERMANY** (January 2008- December 2008).
10.	Dr. S. Balamurugan	Associate Professor	International	**MARQUIS Who's Who in the World 2006** (23rd) Edition
11.	Dr. S. Balamurugan	Associate Professor	International	**NIMS post – doctoral research fellowship** awarded by National Institute for Materials Science, Tsukuba, **JAPAN** (March 2004 – August 2007).
12.	Dr. S. Balamurugan	Associate Professor	International	**MEXT (Monbusho) special researcher fellowship** awarded by Ministry of Education, Culture, Science and Technology, Government of **JAPAN** (October 2002 – March 2004).
13.	Dr. S. Balamurugan	Associate Professor	National	**Senior Research Fellowship (SRF)** awarded by Council of Scientific and Industrial Research (**C.S.I.R**) New Delhi, INDIA for Ph. D. programme(November 2000 – September 2002).
14.	Dr. S. Balamurugan	Associate Professor	National	**Junior/Senior Research Fellowships (JRF/SRF)** awarded by Board of Research and Nuclear Science (**B.R.N.S**) / Department of Atomic Energy, Mumbai,

				INDIA for Ph. D programme (September 1997 – March 2000).
15.	Mr. S. Gobalakrishnan	Assistant Professor	National	TNSCST – Young Scientist Fellowship – 2011-2012 (Tamilnadu State)
16.	Mr. R. S. Rimal Isaac	Assistant Professor		"Outstanding Young Chemical Engineer 2007 (OYCE 2007)" award at 3rd Annual Session of Student's Indian Chemical Engineering Congress by Indian Institute of Chemical Engineering (IIChE).
17.	Dr. P. K. Praseetha	Associate Professor	National	Best paper award for oral presentation in Amsco 2008- National conference, Thiruvananthapuram
18.	Dr. P. K. Praseetha	Associate Professor	National	Junior research fellowship- awarded by Council of Scientific and Industrial Research (**C.S.I.R**) New Delhi, INDIA
19.	Dr. J. Joseph	Associate Professor	National	Young Research Award (ICBDM -2014- organized by Dept of managements studies, Noorul Islam University)
20.	Dr. J. Joseph	Associate Professor	National	Selected as Young Scientist under research scheme by DST, New Delhi

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Staff members deputed for Staff Development Program

Name of the staff	**Certificate Course**	**Period**	**Course conducted by**
Ms. M. Sony Lecturer	Digital Signal Processing Design	20th & 21st May 2010	Einstein College of Engineering, Tirunelveli
Ms. V. Anusooya Lecturer	Digital Signal Processing Design	20th 21st May 2010	Einstein College of Engineering, Tirunelveli
Mr. Hubert Rajan Lecturer	Certificate in JAVA Programming	23rd to 30th Aug 2010	Francis Xavier Engg. College,
Mr. Sujai Sundar. E Lecturer	Certificate in JAVA Programming	23rd to 30th Aug 2010	Francis Xavier Engg. College,
Ms. Kalaivani. R Lecturer	"labview with hands on training	11th December 2010 to 15th December 2010	NICE, Kumaracoil
Mr. C. Agees Kumar Lecturer	"labview with hands on training	11th December 2010 to 15th December 2010	NICE, Kumaracoil
Mr. C. Sreekanth Lecturer	"labview with hands on training	11th December 2010 to 15th December 2010	NICE, Kumaracoil
Ms. D.R. Denslin Braja Lecturer	Shilledge Training Programme on Data Structure using C	10th June 2011 to 12th June 2011	Vickram College of Engineering, Enathi
Ms. Y. Jeyasheela Asst. Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Ms. A. Ferdinand Christopher Asst.Professor	Shilledge Training Programme on "Data Structure using C	10th June 2011 to 12th June 2011	Vickram College of Engineering, Enathi
Ms. K.J. Karpagam Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Ms. S. Beulah Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor

Ms. N. Ajitha Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Ms. Suji Pramila Asst.Professor	Shilledge Training Programme on "Data Structure using C	10th June 2011 to 12th June 2011	Vickram College of Engineering, Enathi
Mr. J.P. Jayam Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Ms. Merlin Johnsy Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Mr. P.V.Samuel Blessed Nayagam Asst.Professor	Shilledge Training Programme on "Data Structure using C	10th June 2011 to 12th June 2011	Vickram College of Engineering, Enathi
Mr. P. Venkadesh Asst.Professor	Shilledge Training Programme on "Oops using C++	13th June 2011 to 15th June 2011	PET Engineering College, Vallioor
Ms. M.B. Jayalekshmi Asst.Professor	J2EE & Best Practices om application development	10th December 2011 to 17th December 2011	Marthandam College of Engineering and Technology, Kuttakuzhi
Ms. Melbin J Reena Asst.Professor	J2EE & Best Practices om application development	10th December 2011 to 17th December 2011	Marthandam College of Engineering and Technology, Kuttakuzhi
Ms. Beulah. S Asst.Professor	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Ms. Anusha Bamini.A.M Asst.Professor	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Ms. Venifa Mini Asst.Professor	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Ms. T.V. Sindia Asst.Professor	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Ms. R.A. Karthika Research	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering,

Scholar			Nagercoil
Ms. T. Magalakshmi Research Scholars	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Mr. Anand C Shekhar Computer Networking Engineer	Cloud Infrastructure & Services	20th to 24th January 2014	St.Xavier's Catholic College of Engineering, Nagercoil
Mr. P.V. Samuel Blessed Nayagam Asst.Professor	"Redifine Skills" on Cloud infrastructure Services and Data Science & Big Data Analytics	19th December 2014	NIU, Kumaracoil
Dr. A. Shajin Nargunam	"Redifine Skills" on Cloud infrastructure Services and Data Science & Big Data Analytics	19th December 2014	NIU, Kumaracoil

Staff members deputed for short term Workshops form the academic year 2009-10 to –2014-15

Name of the staff	Topic of Workshop	Period	Course conducted by
Ms. V.S.Bindhu Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli
Mr. A. Khaleel Rahuman Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli
Ms. R. Abilasha Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli
Ms. Lisha S Thapas Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli
Ms. P. Deepa Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli
Mr. Ilankumaran Lecturer	Communication Skills and Technical Seminar	31.01.2009	Anna University, Tirunelveli

Ms. S. Maria Celestin Vigila Asst.Prof.	Recent Trends in Information Security	31.01.2009	K.S. Rangasamy College of Technology, Tiruchengode
Mr. C. Agees Kumar Lecturer	Soft Computing – New Trends,Research issues and Applications	19th & 20th March 2009	Anna University, Tirunelveli
Mr. G Glan Deva Dhas Asst. Prof.	Soft Computing – New Trends,Research issues and Applications	19th & 20th March 2009	Anna University, Tirunelveli
Mr. R.B.A Ashok Ananth Lecturer	New Construction Materials and Methodologies Today	5th Aug 2009	Government College f Technology, Coimbatore – 13
Ms. R. Abilasha Lecturer	Cumulative Lab	6th Aug 2009	Anna University, Tirunelveli
Mr. Ilankumaran Lecturer	Cumulative Lab	6th Aug 2009	Anna University, Tirunelveli
Mr. V.S.Dharun Lecturer	Orienation Programme on Industrial Expectations	8th & 9th Sep 2009	Anna Unversity, Chennai
Mr. S.Palani Kumar Asst.Prof	Orienation Programme on Industrial Expectations	8th & 9th Sep 2009	Anna Unversity, Chennai
Mr. G. Glan Deva Dhas Asst.Prof	Orienation Programme on Industrial Expectations	8th & 9th Sep 2009	Anna Unversity, Chennai
Mr. S.S.Kumar Lecturer	Digital Image Processoing	6th & 7th Nov.2009	Dr. Mahalingam College of Engineering & Technology, Pollachi
Mr. V.S.Dharun Lecturer	Digital Image Processoing	6th & 7th Nov.2009	Dr. Mahalingam College of Engineering & Technology,

			Pollachi
Mr. Andrew M Appaji Lecturer	Elemental Detection and Analysis	17th & 19 December 2009	STIC, Cochin
Mr. Hubert Rajan Lecturer	Effective Teaching /learning of computer Programming under the National Mission on Education through ICT	15th Jan 2010	Amrita Vishwa Vidyapeetham, Coimbatore
Mr. K. Sivasankar Lecturer	Effective Teaching /learning of computer Programming under the National Mission on Education through ICT	15th Jan 2010	Amrita Vishwa Vidyapeetham, Coimbatore
Dr. S. Ramachandran Professor	Instructional Workshop on Graph Theory	5th to 7th Jan 2010	Anna Malai University, Annamalai Nagar
Ms. R. Abilasha Lecturer	Cumulative Skills Lab	28th Jan 2010	Annaa University, Tirunelveli
Ms. Deepa.P Lecturer	Cumulative Skills Lab	28th Jan 2010	Annaa University, Tirunelveli
Ms. V.S. Bindhu Lecturer	Cumulative Skills Lab	28th Jan 2010	Annaa University, Tirunelveli
Mr. Robin Kumar Samuel Lecturer	Introduction to Graph Algorithms	3rd & 6th Feb 2010	Kalasalingam University, Anand Nagar, Krishnankoil
Mr. Mathu Soothana S Kumar Asst.Prof & HOD	Soft Computing Techniques	11th & 12th Feb 2010	Mepco Schlenk Engg. College, Sivakasi
Mr. Victor Jose Asst.Prof & HOD	Cloud Computing	12th Mar 2010	Cape Institute of Technology, Levengipuram
Ms. Maria Celestin Vigila Asst.Prof	Free Open Sourse Software (FOSS)	29th & 30th Sep 2010	Mepco Schlenk Engg. College, Sivakasi
Mr. S. Jenkinns Hexley Dhas Lecturer	ECO-Friendly Welding Process	5th Oct 2010	Annamalai University, Anna Malai Nagar

Dr. J. Joseph AP		8th Oct 2010	Nesamony Memorial Christian College, Marthandam
Mr. C. Agees Kumar Lecturer	Graphical System Design for Engineering Applications Using Lab View	25th Nov. 2010 to 26th Nov. 2010`	National Engg. College, Kovilpatti
Mr. C. Sreekanth Lecture	Graphical System Design for Engineering Applications Using Lab View	25th Nov. 2010 to 26th Nov. 2010`	National Engg. College, Kovilpatti
Mr. G.Glan Deva Dhas	+"Smart Mems and Sensor Systems"	1st – 2nd Dec 2010	St. Peter's Engg. College, Chennai
Dr. J. Joseph AP	"Proteins Structure Function and Folding"	20th – 24th Dec 2010	IIS, Bangalore
Dr. S. lawyed Stephen Librarian	"Inflibnet"	11th Feb 2011	M.S. University, Tirunelveli
Mr. K.P. Sivakumar Asst.Lib	INDEST – AICTE Consortium	18th – 20th Feb 2011	IIT, Madras
Ms. S. Maria Celestin Vigila, AP	Wireless Networks and Security	8th Mar 2011 to 9th Mar 2011	Mepco Schlenk Engg. College
Ms. J.E. Judith AP	"FOSS – Free and Open Source Software"	10th & 11th June 2011	St. Xavier's Catholic College of Engineering, Nagercoil
Ms. B.S. Deepa Priya, AP	"FOSS – Free and Open Source Software"	10th & 11th June 2011	St. Xavier's Catholic College of Engineering, Nagercoil
Mr. A.K. Darwins AP	"Sustaninable Manufacturing Systems	15th & 16th july 2011	Annamalai University, Annamalai Nagar`
Mr. D. Jackson AP	"Real time MIMO decoders for next generation"	22nd july – 23rd July 2011	DMI Engg. College, Aralvaimozhi
Dr. V.N. Meenadevi AP	"X-ray Crystallography"	25th – 26th Aug 2011	Holy Cross College, Tiruchirappalli

Ms. S. Venkateswari AP	"METLAB"	17th Nov.2011	RMD Engg. College, Kavaraipettai
Ms. S. Venkateswari AP	"METLAB"	19th Nov.2011	RMD Engg. College, Kavaraipettai
Mr. Mansoor Ani Najeeb AP	"NT and Biomedical Applications"	4th Nov.2011	St.John's College, Anchal
Dr. A. Simi AP	"NT and Biomedical Applications"	4th Nov.2011	St.John's College, Anchal
Ms. A.Rathika R.S	"NT and Biomedical Applications"	4th Nov.2011	St.John's College, Anchal
Ms. C. Sagi Rani AP	"NT and Biomedical Applications"	4th Nov.2011	St.John's College, Anchal
Ms. B. Bindhu Ap	"NT and Biomedical Applications"	`	St.John's College, Anchal
Mr. P. Libin Raj AP	"NT and Biomedical Applications"	4th Nov.2011	St.John's College, Anchal
Mr. Sujai Sundar.E AP	Java EE Frameworks	6th – 9th Dec 2011	SCMS School of Engg & Tech, Ernakulam
Ms. J.R. Jeba ASP	WEKA – (a datamining Tools)	9th – 10th Mar 2012	St. Xavier's College, Palayamkottai
Ms. S. Pushpalatha AP	Recent Trends in Inorganic Materials – 12	9th – 10th March 2012	National ENgg. College, Kovilpatti
Mr. G. Ramadas Deputy Librarian	KOHA	17 – 19th May 2012	Marian College Kuttikkanam
Ms. T. Brindha AP	"NIMBUS"	26th july 2012	Thangal Kumju Musaliar Institute of Technoology, Kollam
Ms. S.V. Divya AP	"NIMBUS"	26th july 2012	Thangal Kumju Musaliar Institute of Technoology, Kollam
Ms. G. Venifa Mini AP	"NIMBUS"	26th july 2012	Thangal Kumju Musaliar Institute of

			Technoology, Kollam
Dr. T. Nasar Professor	Integrated Coastal Zone Management and Planning for Tamilnadu	16th – 17th July 2012	IIT, Madras
Ms. A. Rathika R.S	Pre ICORS International Workshop on Raman Spectroscopy: Recent Advances Techniques and Applications	10th Aug 2012	Kerala State Council for Science and Technology and Environment, TVM
Dr. A. Merlin Thanga Joy AP	Research Techniques in Management	3 – 5 Aug 2012	Pondicherry University, Pondicherry
Ms. H.Vennila AP	Multi Objective Optimisation using Evolutionary Algorithm	24th Sep 2012	Sun College of Engg & Tech, Erachakulam
Ms. M.P. Flower Queen AP	Multi Objective Optimisation using Evolutionary Algorithm	24th Sep 2012	Sun College of Engg & Tech, Erachakulam
Mr. R. S. Ganesh AP	Multi Objective Optimisation using Evolutionary Algorithm	24th Sep 2012	Sun College of Engg & Tech, Erachakulam
Mr. K. P. Sivakumar Asst.Lib	"e-Granthalaya"	11- 13 th Sep 2012	Kerala Library Association, TVM
Mr. P. Libin Raj AP	Recent Trends in Materials Research	21st – 22nd Dec 2012	NIT, Trichy
Mr. C. Agees Kumar AP	"Fuzzy Based Control using MATLAB"	18th – 19th Jan 2013	Arunachala College of Engg for Women, Vellichanthai
Dr. John Arul Singh AP	ATM Workshop Topology	4 – 9th Feb 2013	NIU, Kumaracoil
Dr. V.N. Meena Devi AP	Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	19 – 22nd Feb 2013	Alagappa University, Karaikudi
Dr. M. Murugan	Recent Trends in Structural	19 – 22nd Feb 2013	Alagappa University,

AP	Bioinformatics and Computer Aided Drug Design		Karaikudi
Ms. R. Radeesh Kumari RS	Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	19 – 22nd Feb 2013	Alagappa University, Karaikudi
Dr. M. Muthukumar AP	Research Methodology and Data Analysis	15th – 16th Mar 2013	Annamalai University, Annamalai Nagar
Ms. K.S. Angel Viji AP	Hands-on Matlab Training Program on Intelligent Systems Design"	11- 12th April 2013	University of Engg, Nagercoil
Ms. G. Venifa Mini AP	Bigdata Analytics	19th – 20 april 2013	VIT University, Vellore
Ms. S. Vinila Jinny AP	Bigdata Analytics	19th – 20 april 2013	VIT University, Vellore
Ms. J. E Judith AP	Bigdata Analytics	19th – 20 april 2013	VIT University, Vellore
Mr. G. Diju Samuel AP	"Sustainable Manufacturing"	18th – 19th July 29013	NIIT, Trichy
Mr. J. Edwin Raja Dhas AP	"Sustainable Manufacturing"	18th – 19th July 29013	NIIT, Trichy
Mr. E. Raja Sherin AP	"Measurements during Metal Cutting"	11th 12th Oct 2013	NSS College of Engg, Palakkad
Ms. D. Sheeba Singh AP	Reliabillity Theory and Survival Analysis"	31st December 2014	Cochin University of Science and Technology, Cochin
Mr. Edwin Raja Dhas AP	Super Conductive Materials and their Fabrication	17th Mar 2014	NIT, Tiruchirappalli
Dr. B. Bindhu AP	Tune & Prune your research – Material Characterization Techniques	21- 22nd Aug 2014	Sree Tirunal Institute for Medical Sciences & Technology, TVM
Mr. P. Libin Raj	Tune & Prune your research – Material	21- 22nd Aug 2014	Sree Tirunal Institute for

AP	Characterization Techniques		Medical Sciences & Technology, TVM
Mr. P. V. Samuel Blessed Nayagam AP	"Formal Methods in Cryptography"	8th Jan 2015	National Engg. College, Kovilpatti
Mr. S. Gobalakrishnan AP	"Preparation of Nano Materials"	27th Jan 2015	Kunthavai Naachiyaar Govt. Arts College (W), Thanjavur
Dr. G. Ramadas Deputy Libraian	"National Programme on Technology Enhanced Learning (NPTEL)	13th March 2015	National Engineering College, Kovilpatti
Mr. K.P. Sivakumar Asst. Librarian	"National Programme on Technology Enhanced Learning (NPTEL)	13th March 2015	National Engineering College, Kovilpatti

List of Staff members deputed for short term courses form the academic year 2009-10 to 2014-15

Sl. No.	Name of the staff	Topic of Seminar	Period	Course conducted by
1.	Mr. Andrew M. Appaji Lecturer	"MEDIASCAPE'09	22st – 23rd Jan 09	NICAS, Thuckalay
2.	Mr. S. Palani Kumar Lecturer	Soft Computing Approaches for Image Processing	06-07-09	MEPCO Engg.College, Sivakasi
3.	Ms. K. Chandrakala Lecturer	Recent Trends & Research Issues in Communication Technologies	14-15 May 09	MEPCO Engg.College, Sivakasi
4.	Dr. J. Edwin Raja Dhas Professor		1st Oct 09	VINS Christian College of Engg. , Nagercoil
5.	Dr. Joseph John AP	Crystal growth	10th to 12th March 2010	VIT University, Vellore

6.	Dr. I. Jacob Raglend Professor	Power System Communication, Quality and High Voltage Engineering	12th – 13th March 2010	VIT University, Vellore
7.	Mr. K.P. Sivakumar Asst.Librarian	"Re-defining the Library for the digital age"	20th March 2010	Dr. Sivanthi Aditanar College of Engg, Tiruchendur
8.	Dr. T. Narayanan AP	"Special Economics Zones in India: Prospects and Implications"	29th – 29th Jan 2010	The Gandhigram Rural Institute – Deemed University, Gandhigram
9.	Dr. T. Narayanan AP	"Creativity and Innovations in Tourism Entrepreneurship:Contemporary Trends"	19-20 March 2010	Pondicherry University
10.	Ms. S. Maria Celestin Vigila AP	Network Security - Research Issues and Challenges	17-18th May 2010	MEPCO Engg.College, Sivakasi
11.	Mr. J. Rajeesh AP	Medical Imaging	17- 18th Sep 2010	Dr. Sivanthi Aditanar College of Engg, Tiruchendur
12.	Mr. R.S. Ganesh AP	Space Time Wireless Communication	17- 18th Sep 2010	Dr. Sivanthi Aditanar College of Engg, Tiruchendur
13.	Mr. R. S. Vinod Kumar AP	Wavelets and its Applications	04-05 Feb 2011	MEPCO Engg.College, Sivakasi
14.	Ms. N. Sugitha AP	Wavelets and its Applications	04-05 Feb 2011	MEPCO Engg.College, Sivakasi
15.	Dr. S.S.Kumar AP	Wavelets and its Applications	04-05 Feb 2011	MEPCO Engg.College, Sivakasi
16.	Mr. R.S.Ganesh AP	Wavelets and its Applications	04-05 Feb 2011	MEPCO Engg.College, Sivakasi
17.	Dr. R. Jeyamurugan AP	RTBIC – 2011	17-18th Feb 2011	VHNSN College, Virudhunagar
18.	Dr. K.M. Ponvel AP	RTBIC – 2011	17-18th Feb 2011	VHNSN College, Virudhunagar

19.	Ms. Aruna Jeyanthy AP	Opportunities and challenges in renewable power generation	11.02.11	Cape Institute of Tech.
20.	Ms. Sirajul Muneera.M Lecturer	Emerging concepts and trends in Bioinorganic chemistry	24.02.11	National Engg. College, Kovilpatti
21.	Ms. S. Pushpa Latha Lecturer	Emerging concepts and trends in Bioinorganic chemistry	24.02.11	National Engg. College, Kovilpatti
22.	Dr. R. Ganapathi Raman AP	Advances in Physics (NSAP- 2011)	10-11 March 2011	M.S. University, Tirunelveli
23.	Dr. V.N. Meenadevi AP	Condensed Matter and Statistical Physics	28th Feb – 13th Mar 2011	The National Academy of Sciences India, Allahabad
24.	Dr. J. Joseph AP	Recent Trends in Natural Products Chemistry	18th March 2011	M. S. University, Tirunelveli
25.	Dr. T. Suthan AP	Recent Trends in Physics	18 – 19 March 2011	Shivani Engg. College, Trichy
26.	Prof. S. Ramachandran Professor	Seminar	25th April 2011	M.S. University, Tirunelveli
27.	Dr. J. Joseph AP	"Solar Energy and its applications	29th April 2011	Marthandam College of Engg & Technologies, Kuttakuzhi
28.	Dr. J. Edwin RajaDhas Professor & Head	"Intelligents under water autonomous robots for ocean monitioring	3-4 May 2011	K.S. Rangasamy College of Technology, Tiruchengode
29.	Dr. R. Jeyamurugan AP	Emerging Trends in Chemistry	28 – 29th July 2011	VHNSN College, Viruchunagar
30.	Dr. K.M. Ponvel AP	Emerging Trends in Chemistry	28-29 July 2011	VHNSN College, Viruchunagar
31.	Ms. V. Mary Amala Bai AP	"Research Issues in Bio-Informatis & Pattern Recognition"	18 – 19 Aug 2011	Einstein Collge of Engineering, Tirunelveli
32.	Mrs. H. Vennila AP	Seminar	16-09-11	Annai Vailankanni College of Engg, Pottalkulam

33.	Dr,.R. Ganapathi Raman AP	Recent Trends in Synthetic Methods and Chemistry of Natural Products	14th – 15th October 2011	Annamalai University, Annamalai Nagar
34.	Dr. T. Suthan AP	Recent Trends in Synthetic Methods and Chemistry of Natural Products	14th – 15th October 2011	Annamalai University, Annamalai Nagar
35.	Mr. Mansoor Ani Najeeb AP	Recent advances in Biomedical Research on infectious and Non-infectious Diseases	13th – 14 th Oct 2011	Bharathidasan University, Tiruchirappalli
36.	Ms. C.S.Vasavi AP	Recent advances in Biomedical Research on infectious and Non-infectious Diseases	13th – 14 th Oct 2011	Bharathidasan University, Tiruchirappalli
37.	Mr. M. Victor Jose AP	Research Issues in cloud and Grid computing	14-15 Oct 2011	MEPCO Engg.College, Sivakasi
38.	Ms. R. Kalai Selvi AP	Research Issues in cloud and Grid computing	14-15 Oct 2011	MEPCO Engg.College, Sivakasi
39.	Ms. V. Seetha Lakshmi AP	Mathematical Transforms in Engg	24.02.12	Cape Institute of Tech, Levengipuram
40.	Dr. T. Suthan AP	Crystallography and Nanotechnology	2nd March 2012	Vivekanda College, Agasteeswaram
41.	Dr. V.N.Meenadevi AP	Academies Refresher Course in Experimental Physics – XXXVI	6 – 21 March 2012	NAL, Bangalore
42.	Dr. M. Devanand Professor	Talent Crisis in Global Oil and Gas Industry	16th - 17th March 2012	IIT, Madras
43.	Ms.A,Rathika R.S	Crystalline Materials and their applications	16-17 July 2012	Anna University,Chennai
44.	Ms. A. Rathika R.S	Recent Advancements in Materials Research	19th – 20th July 2012	Scott Christian College, Nagercoil
45.	Mr. K.P. Sivakumar Asst.Librarian	Advancements in Digital information sources and Services for Education and Research	19th July 2012	National College of Engg, Tirunelveli
46.	Dr. T. Suthan AP	Theoretical Physics	16th July – 28th July	The National Academy of Sciences India,

			2012	Allahabad
47.	Prof. J. Arul Linsely AP	Symposium	21st Sep 2012	CST Institute of Technology, Thovalai
48.	Mr. X. Felix Joseph ASP	Representatives Association	21st Sep 2012	Annai Vailankanni of Engg, Pottakulam
49.	Mr. R.S. Vinod Kumar AP	Speech and Audio Signal Processing	14-15 Sep 2012`	MEPCO Engg.College, Sivakasi
50.	Ms. R.Abilasha AP	"Soft Skills the emerging paradisms	24.01.13	Pioneer Kumaraswamy College, Nagercoil
51.	Ms. M. Kohila AP	"Soft Skills the emerging paradisms	24.01.13	Pioneer Kumaraswamy College, Nagercoil
52.	Dr. R. Ganapathi Raman AP	DAE- BRNS	6- 9 Feb 2013	Bhabha Atomic Research Centre, Mumbai
53.	Ms. R. Chitra ASP	"Recent Issues in Generation of Virtual Brain using DNA Based Computing in Cellular Neural Networks	15 – 16th Feb 2013	Einstein College of Engg, Tirunelveli
54.	Dr. T. Suthan AP	Refreshers Course	01-06 Feb 2013	Indian Academy of Sciences, Bangalore`
55.	Dr. T. Suthan AP	Novel Materials	08.03.13	Shivani Engg. College, Tiruchirappalli
56.	Ms. V. Amsaveni AP	Multiobject Wavelet Transform for Medical Image Technology	18th May 2013	Arunachala College of Engg, Vellichanthi
57.	Ms. M. Sudha AP	Emerging Trends in Graph Theory and Fuzzy Mathematics ETGF – 2013	06-09.13	APC Mahalakshmi College for Women, Thoothukudi
58.	Ms. R.Manju AP	Multiobject Wavelet Transform for Medical Image Technology	18th May 2013	Arunachala College of Engg,

				Vellichanthi
59.	Dr.V.Seethalakshmi AP	Emerging Trends in Graph Theory and Fuzzy Mathematics ETGF – 2013	06-09.13	APC Mahalakshmi College for Women, Thoothukudi
60.	Mr.R. Ganapathi Raman AP	NSRTM-2013	4- 5th Oct 2013	Annai Velankanni Collegge, Tholayavattam
61.	Dr.T. Suthan AP	NSRTM-2013	4- 5th Oct 2013	Annai Velankanni Collegge, Tholayavattam
62.	Ms. M. SUcharitha AP	Engg. Research in Weather forecasting	13th Sep 2013	Ponjesy College of ENgg, Nagercoil
63.	Ms.D.Menaka AP	Engg. Research in Weather forecasting	13th Sep 2013	Ponjesy College of ENgg, Nagercoil
64.	Ms. A. Rathika R.S	Engg. Research in Weather forecasting	13th Sep 2013	Ponjesy College of ENgg, Nagercoil
65.	Mr.S. Gobalakrishnan AP	Nanovolts to Gigahertz	26th Sep 2013	Sintetec Automation, Coimbatore
66.	Dr. G. Ramadas Deputy Librarian	Refreshers Course	07- 27th Jan 2014	Madurai Kamaraj University, Maduari
67.	Ms. A. Rathiks R.S	XCIII NSCG- 2014	24- 26th Feb 2014	SSN College of Engg, Chennai
68.	Prof. I. James Dhinakaran ASP	MECTRIX- 14	5th March 2014	Marthandam College of Engg, Kuttakuzhi
69.	Dr. R. Rajesh Professor	MECTRIX- 14	5th March 2014	Marthandam College of Engg, Kuttakuzhi
70.	Dr. R.Pranesh Kumar AP	A cognitive approach toi develop the speaking skill of young L2 Learners	7- 8th March 2014	AnnaUniversity, Chennai

71.	Ms. P. Deepa AP	English Language and Literature	14th March 2014	Rani Anna Govt. College for Women. Tirunelveli
72.	Ms. M. Kohila AP	English Language and Literature	14th March 2014	Rani Anna Govt. College for Women. Tirunelveli
73.	Ms. M. Sucharitha AP	Research Issues in Digital Image Processing	15th March 2014	MEPCO Engg.College, Sivakasi
74.	Dr. J. Joseph ASP	Recent Trends in Chemical Sciences	23- 24 OCT 2014	St. John's College, Kollam
75.	Dr. M. Ilankumaran ASP	Language and Literature	24th Feb 2014	Vivekananda Collge, Agasteeswaram
76.	Dr. I. Jacob Raglend Professor	TECFEE 2K 15	20th Feb 2015	CSIInstitute of Technology, Thovalai
77.	Dr. I. Jacob Raglend Professor	"SACOESIUM-2015	12th Feb 2015	Dr. Sivanthi Aditanar College of Engg, Tiruchendur
78.	Dr. V. N. Meenadevei AP	Seminar on Recent Trends in Applied Physics	9th March 2015	Vivekananda Collge, Agasteeswaram
79.	Dr. J. Jayakumari Professor	Emerging Wireless Communication Technologies	12th – 13 th March 2015	Mar Baselios College of Engg & Tech, Trivandrum
80.	Mr. Saju Simon. S.G AP	Advancement of Science through scientometrics	27th -0 28th March 2015	Annamalai University, Annamalai Nagar
81.	Dr. S. Lawyed Stephen Librarian	Role of rural libraries and folkore Instutions in the =development of education	11th March 2015	S.T Hindu Clooege, Nagercoil
82.	Ms. R. Binthiya AP/ Maths	TOTA	17.11.08 to 28.11.2008	Maritime Foundations, Chennai
83.	Ms. Chandrakala AP/ECE	TOTA	17.11.08 to 28.11.20	Maritime Foundations, Chennai

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84.	Mr. D.K. Jayaram AP/Civil	TOTA	17.11.08 to 28.11.2008	Maritime Foundations, Chennai
85.	Ms. Sheeba Singh AP/Maths	TOTA	17.11.08 to 28.11.2008	Maritime Foundations, Chennai
86.	Mr. V.K. Jebasingh	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
87.	Mr. P. Selvadhas	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
88.	Mr. T. Annil Kumar	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
89.	Mr. S. Mathu Kumar	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
90.	Mr. S. Iyyappan	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
91.	Mr. P. Thangadurai	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
92.	Mr. V.E. Franklin	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
93.	Mr. S. Deleep Kumar	TOTA	27th December 2010 to 7th	Maritime Foundations, Chennai

			Jan 2011	
94.	Mr. T. Frino	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
95.	Mr. Raghuvaran	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
96.	Mr. Muthukrishnan	TOTA	27th December 2010 to 7th Jan 2011	Maritime Foundations, Chennai
97.	Mr. V. Sangeeth	TOTA	30.07.2012 to 11th August 2012	Maritime Foundations, Chennai
98.	Mr. U. N. Neela Prasad	TOTA	04.08.2014 to 16th August 2014	Maritime Foundations, Chennai
99.	Mr. N. Pradeesh Kumar	International Training Course on Drough Monitoring and Assessment Using Space Technology	18th – 22nd Sep 2014	National Disaster Reduction Center of China, P.R. China

2.4.9 What percentage of the faculty have

- **Been invited as resource persons in workshops/seminars/conferences organized by external professional agencies?**
- **Participated in external workshops/seminars/conferences recognized by national/international professional bodies?**
- **Presented papers in workshops/seminars/conferences conducted or recognized by professional agencies?**
- **Teaching experience in other universities/national institutions and other institutions?**
- **Industrial engagement**
- **International experience in teaching**

12% have been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies

11% Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies

More than 600 papers have presented by the members of the faculty at various Workshops / Seminars / Conferences of national and International Levels.

About 10% faculty have Teaching experience of other universities / national institutions and other institutions

About 2% faculty are involved in Industrial engagement

About 1% faculty have International experience in teaching

2.4.10 How often does the department organize academic development programmes (eg: curriculum development, teaching learning methods, examination reforms, content/knowledge management etc) for its faculty aimed at enriching the teaching learning process?

The Board of Studies in each department meets two times in an academic year to discuss and finalise measures through discussions with internal faculty and external experts to make qualitative changes in the curriculum for different courses. The deliberations also make recommendations on question paper setting and other possible examination reforms.

2.4.11 Does the university have a mechanism to encourage

- **Mobility of faculty between universities for teaching**
- **Faculty exchange programmes with national and international bodies?**

  If yes, how have these schemes helped in enriching the quality of the faculty?
- **Parcipation as resource persons in speciliazed programmes by different universities.**
- **Visiting other universities under faculty exchange scheme.**

The University permits and encourages faculty to accept invitations for delivering lectures in colleges, universities and research institutes within India and abroad. The university has signed MoUs to facilitate interactive exchange of faculty with Universities abroad for the purpose of keeping pace with the latest technological advancements in different fields.

2.5 Evaluation process and reforms

- Need-based department/faculty wise academic development programmes are organized by the University for the faculty.
- The curriculum development programme is observed by the University as a routine basis through the Board of Courses and Studies as per the requirement and guidelines of regulatory bodies in all faculties/departments.
- Periodical workshop are organised by the University for the development of teaching-learning methods and inculcation of modern ICT based teaching aids.
- University’s Examination Section organizes workshops from

time to time on examination reforms under the guidance of Examination Board and Academic Council.

2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation process that are in place?

The copy of the Regulation book containing the course structure, credits to be earned, its distribution and method of evaluation and pass criteria are given to the students at the time of enrolment into the University. The same information is also available in the University website for ready reference.

2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system reforms.

The University has put several mechanisms in place to ensure that the examination system is foolproof. The examination regulation defines the role and responsibilities of all the stakeholders, protocols and procedures to be followed, and steps to be taken at all levels in the conduct of the examinations. All the forms/proforma for use in the examination process have been drawn out meticulously in standardized formats. Measures to curb malpractices have also been listed together with the penalty and punishment.

Action has been taken to reform the examination system. Optical Marking recognition (OMR) based answer sheets are now in vogue for university examinations to avoid human error. Answer sheets with OMR based cover page has helped in transferring data to computers besides eliminating manual data entry operation.

2.5.3 What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode, media adopted by the University for the Publication of exam results?

- Examination results are declared within 10 to 20 days after the completion of the Exam
- Results are published in website, notice board and through SMS

2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

The University ensures transparency in both internal and final evaluation. Internal assessment is done based on the performance in the first, second and third series exams, in which the answer scripts are returned to the students for verification. University exam evaluation is done by external and internal examiners chosen at random for the final exams and the students are allowed to go for revaluation/re-totalling/photocopying, if any discrepancies arise.

To ensure confidentiality: (i) dummy number is adopted in post examination process, (ii) question despatched by the setter is opened in

the confidential room. Selection of one paper out of two sets of question papers set by two different examiners ensures confidentiality.

2.5.5 Does the university have an integrated examination platform for the following processes?

Pre-examination processes.

Yes. The examination wing works in close coordination with Director, Academic Affairs and Director, Student Affairs. Registered students list is prepared and announced by Director, Academic Affairs. Eligible Student lists are prepared after considering their attendance percentage by the director, student affairs. These students register themselves for examinations by submitting the customized exam application form. Arrangement for external and internal Invigilators, Squad, Attendance sheet and Hall ticket are made well in advance.

Examination process – Examination material management, logistics, etc.

All the examinations are held at central examination halls to check the malpractices and to ensure transparency. The hall schedule and other arrangements for students are well prepared and announced in advance. The examination materials and logistics are centrally provided by the office of the Controller of Examination involving secretarial staff whereas invigilation is taken care of by external and internal teaching staff.

Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.

All the attendance details are checked precisely on the day of examination and the data are entered for comparison. This helps to cross check the procedure and is followed until the process of mark registration and mark list preparation is completed. The evaluation of answer scripts is also done centrally involving 50% internal faculty and 50% external faculty members, mark sheets are placed for scrutiny in the passing board meeting after which the results are published.

2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?

- NICHE follows the UGC regulations strictly in its Ph.D. evaluation process. The regulations concerning admission process, number of candidates guided by Supervisor any given time Doctoral Committee, Course Work and Evaluation of Thesis are given below:
- All eligible applicants shall be called for a written entrance test . Based on the performance in entrance test , candidates shall be shortlisted and called for interview. The admissions shall be based on a merit list based on the consistent academic record and performance in the entrance test and interview.
- A Supervisor shall not guide more than eight doctoral candidates at any time.
- There shall be a Doctoral Committee for every scholar to monitor the progress of research work.

- For every scholar, the Supervisor shall furnish a panel of four experts with doctoral qualification in the field of proposed research, from the faculty members of the University / other Universities or colleges / experts from R&D Departments / National Laboratories / any other laboratories, from which two shall be nominated by the Vice Chancellor, as members (one within the University and one outside expert preferably within the State), Director(Research) will give the final approval.
- The Supervisor of the scholar shall be the convener of the Doctoral Committee.
- Head of the Department of the Supervisor shall be the chairman of the Doctoral Committee.
- The Doctoral Committee of the candidate shall meet within thirty days of admission and prescribe course work for the candidate.
- Every student shall undertake course work for a minimum period of three semester of subjects at P.G level, being offered under any approved programme of this University as recommended by the Doctoral Committee
- Every student should acquire a minimum CGPA of 6.0 through prescribed courses.
- The Doctoral Committee of the candidate shall meet every six months to monitor the progress of the work.
- The thesis shall be referred to the two examiners from the panel nominated by the Vice-Chancellor from the panel of names recommended by the Doctoral Committee.
- If both the examiners recommend the award of the degree, thesis shall be provisionally accepted. Any minor revision, modification etc., suggested by the examiners shall be carried out before the oral examination is arranged. If both examiners recommend rejection, the thesis shall be rejected and the registration of the research scholar shall stand cancelled. If one examiner recommends the award of the degree while the other recommend rejection, then the thesis shall be referred to the third examiner nominated by the Vice-Chancellor from the panel of examiners. If two of three examiners recommend the award, the thesis shall be provisionally accepted. If two of the examiners recommend rejection, the thesis shall be rejected and the registration of the research scholar shall stand cancelled.

2.5.7 Has the university created any provision for including the name of the college in the degree certificate?

Not applicable

2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

- Grievance redressed cell constituted by the University promptly attends to the grievances, if any, and settles them then and there.

- Transparent evaluation system is followed with provision for photocopying, re totaling and revaluation for the U.G. courses and photocopying, and re totaling alone for the P.G courses.

2.5.9 What efforts have been made by the university to streamline the operations at the office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division / section.

- Assessment of the Examinations:
  - The result analysis for each course, subject-wise is prepared by the Controller of Examinations wing and placed before the concerned Passing Boards.
  - The results recommended by the Passing Boards are approved by the University authorities and then approved by the Board of Management.
  - Student evaluation of course Teachers is done at the end of each semester.
  - The University examinations Question Papers are printed confidentially in the "Confidential Section" of the Controller of Examinations wing itself, packed, sealed and kept under the custody of the Controller of Examinations till they are sent to the Chief Superintendent.
  - The Board of Studies for each course discusses about the content and quality of the Question Papers after the examination is over and modifies the pattern of the Question paper if necessary.
  - Representation and feed back about the Question paper is also received from the students though the concerned Head of the Department. Depending upon the nature of the representation, it is placed before the concerned Passing Boards.

Automation of the Controller of Examinations wing

The Controller of Examinations wing ensures a strict and flawless examination system in the University. It screens out good students who attained requisite standards of learning from the rest. It employs modern computing facilities to process enormous data and generation of documents with ease and accuracy.

The Controller of Examinations define the Business rules for the conduct of Examinations, Student details, Staff details, Exam fee structure, External Exam Time Table, Break/Rejoin process, Examination fee Application and Hall ticket generation, conduct of examination, Question papers setting process, External assessment system, moderation process, results processing, Supplementary exams, Arrear process , Certificates generation etc.

Recently Inspro COE ERP Version 6.1(Enterprise Edition) has been purchased of M/s PalpapTechinichi Software International Ltd, Chennai at the cost of Rs.6,700,000/-.

A New Server, Two Pentium IV computers, Firewall devices and Antivirus software have also been added at a cost of Rs. 4,00,050/- to the existing facilities in the Examination wing.

2.6 Student Performances and Learning Outcomes

2.6.1 Has the university articulated its graduate attributes? If so, how does it facilitate and monitor its implementation and outcome?

The university articulates the graduate attributes to create professional vigor, sense of self-confidence, courage and faithfulness among the students. The University inculcates these qualitiesthrough classroom teaching /seminars/conferences/workshops, off campus learning components such as industrial visits and NSS camps.

- Our university offers many programmes to improve academic abilities, interpersonal skills and communication skills. University offers opportunities to try new things technical competitions, extension activities and sport activities.
- Presentations in symposiums based on recent advances in technologypromotes communication skills.
- Taking part in sports activities builds up confidence and increases interpersonal skills
- Every department has an association for conducting programmes for students. Taking part in association activities develops leadership and motivation.
- We conduct annual sports meet so that the students show their talents in the ground.

Further University provides facilities for improving the soft skills of students to enhance their employability opportunities. Pre-placement training is also provided to students during their final year. Periodical tests are arranged to assess and formulate a mechanism to improve on the aptitude and subject skills.

2.6.2 Does the university have clearly stated learning outcomes for its academic programmes / departments? If yes, give details on how the students and staff are made aware of these?

YES.

- The academic programmes in the University are outcome based. While some Departments have specified them, the others are following it in traditional manner.
- Department of Education has implemented outcome based curriculum in which the outcome and objectives of programme and each course offered is defined and mapping is done with the programme outcomes to ensure that the outcomes of the program are met through the courses offered.

Each programme sets out its objectives and learning outcomes in the syllabus of respective programmes. Further during the orientation programme held at the beginning of the academic year, the students are

informed about the objectives of the programmes. The students are further sensitized about the various opportunities available to them on successful completion of the academic programmes.

2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

Keeping programme outcomes in mind, faculty members adopt strategies to facilitate students to achieve the targets. Some of the strategies are given below:

- Three internal assessments are conducted every semester and an end semester exam is conducted in every theory subject.
- End semester exams are conducted for laboratory subjects and viva-voce exams are conducted to test the knowledge of students.
- Industrial training and mini projects are given credit to motivate students to receive training from industries and also to take up creative steps to do projects.
- Add on programs are conducted to provide engineering skills using the latest software and technologies used in industries as per the current practice.
- Coaching classes are conducted to prepare students to pass competitive exams like GATE, UPSC etc.
- Industrial Visits

2.6.4 How does the university collect and analyze data on student learning outcomes and use it to overcome the barriers to learning?

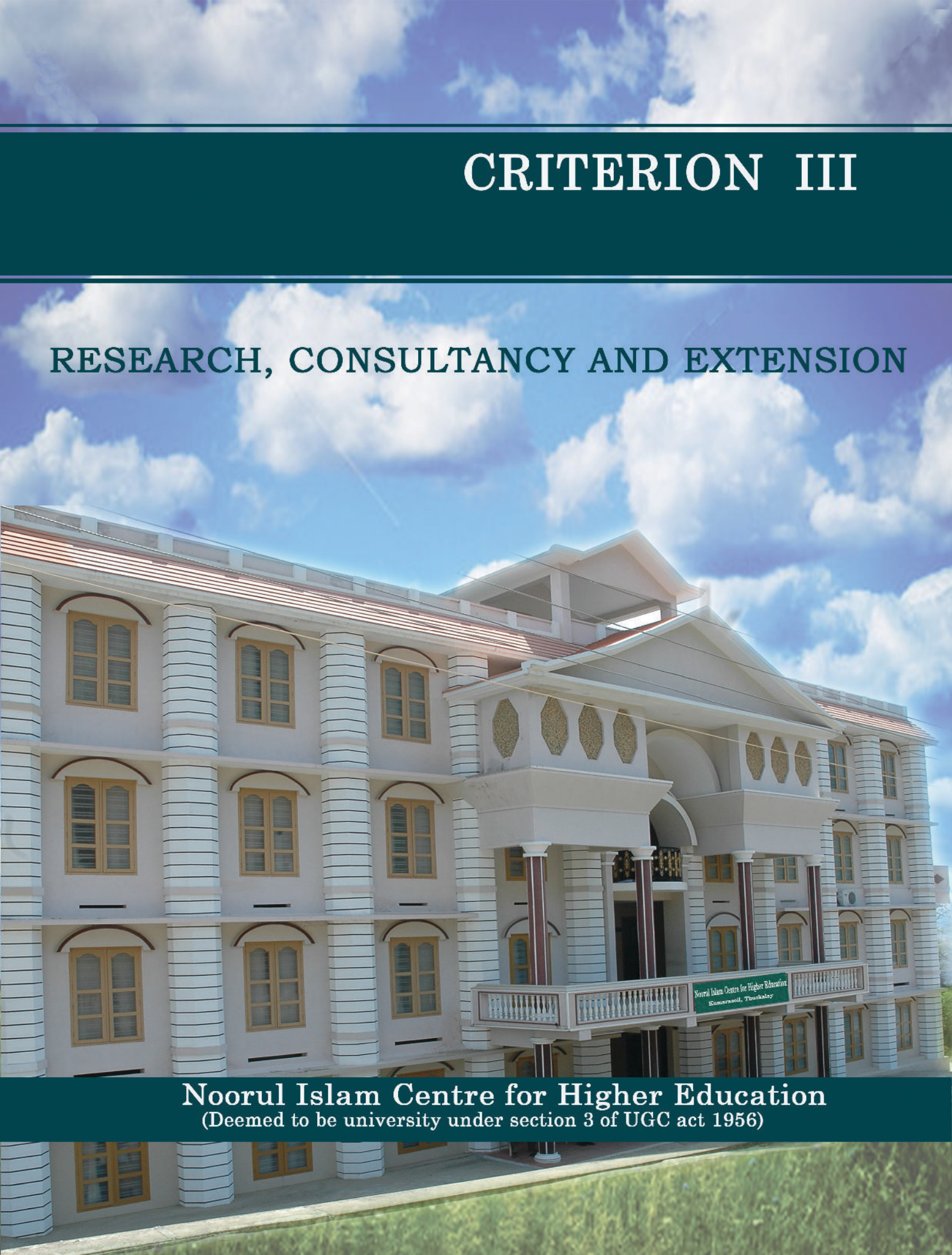
- The Department analyzes the results of every examination to understand the learning outcome of the students.
- The subjects in which more than 50% students fail are analyzed.
- The faculty members are consulted to know the problems.
- Faculty members counsel the students and give instructions which help them to overcome the barriers to learning.

2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh / future challenges?

- Foreign languages are taught to the students in the every semester.
- Availability of teaching-learning resources on the University Digital Library for 24x7 access for the students.
- ICT enabled teaching-learning facility in almost all Departments
- Campus wide Wi-Fi and High bandwidth through National Knowledge Commission (NKC).
- Video Conferencing Equipment
- Online databases such as EBSCO Journals Database and Digital Library subscription through INFLIBNET.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 **Does the University have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Yes, The University has a statutory body called Board of Research, Development and Consultancy (BRDC). It is the apex body to monitor and guide all research programs, including Doctoral research.

The following is the list of the BRDC members:

The Board is chaired by the Vice Chancellor; the Pro-Vice Chancellor and all the Deans of the faculty are the internal members and six experts from renowned institutions are the external experts. Registrar acts as special invitee and Director (Research) as member secretary. This committee meets at least once in three months to encourage pro-active participation of faculty in research and consultancy. The committee oversees all the research and takes steps-

- To formulate the regulations and procedures for Research, Development and Consultancy programmes.
- To identify R&D thrust areas within the framework of vision and mission of the institution.
- To finalize the R&D tie-ups with National and International bodies.
- To plan, initiate, review and oversee the research activities.
- To evolve and implement multi-institution and multi disciplinary programmes, utilizing the infrastructure and resources of the Institute gainfully.
- To administer the Doctoral programmes through the Registrar of the Institute.
- To ensure quality in research.

Some of the recommendations of the board had influenced the research activity by establishing centres on focused area such as Materials, Network and Energy. Further the numbers of full time research scholars under stipend scheme for doctoral program are being increased. The requirement of one paper in indexed journal for the submission of thesis by the research scholar has helped in bringing out quality research output. And to promote research among scholars and the faculty, the knowledge sharing platform is performed through the following meetings.

Research Forum (at the University level)

The faculty and scholar shall meet once in two months to share and interact thrust areas of research. Further, effective interaction among the members of Research Forum exists in addition to the formal meetings once in 2 months. To achieve the above, all the faculties with Ph.D. and all Ph.D. Research Scholars shall make necessary arrangement to spare an afternoon session in a week for research discussion among themselves.

Research Colloquium (at the Department level)

The main objective of the Department Research Colloquium is to bring together the faculty, research scholars and students involved in research activities. A fortnightly meeting of each research colloquium serves as the platform for presenting individual research activities and discussing relevant issues.

3.1.2 **What is the policy of the University to promote research in its affiliated / constituent colleges?**

As this is a deemed to be University there are no affiliated / constituent colleges

3.1.3 **What are the proactive mechanisms adopted by the University to facilitate the smooth implementation of research schemes/projects?**

**** Advancing funds for sanctioned projects***

The University advances funds whenever necessary, to accelerate the progress of the projects.

* ***Providing seed money***

The University provides seed money to the beginners to enable them to meet the incidental expenses for preparing project proposals for submission to funding agencies. Within one year of sanction of the seed money, the beginner is expected to submit a project to the funding agency and publish a paper in an impact factor journal.

**** Simplification of procedures related to sanctions / purchases to be made by the investigators***

The Principal investigator can order the required instruments/consumables directly after getting permission from the university. The principal investigator possesses full powers (including financial) to steer the research projects in the required direction.

* ***Autonomy to the principal investigator/coordinator for utilizing overhead charges***

In general, overhead charges forming part of the grant sanctioned by the funding agencies are meant to be transferred to the common funds of the University and need not be given to the principal investigator.

In NICHE, entire overhead is allowed to be utilized for the promotion of research. The Board of Management of NICHE in its meeting held on 13th March 2013 has laid down that the overhead amount sanctioned as part of the project funds by the funding agencies shall be transferred to the separate bank account with the name of the Noorul Islam Research and Development Fund Account.

- 50% of the overhead amount sanctioned for each project shall be permitted to be utilized by the principal investigator concerned to create/augment necessary facilities required by him/her.

- The remaining 50% of the overhead amount shall be treated as common fund to be utilized for the promotion of research in the campus. The common purposes for which this common fund may be utilized are to be decided by the R&D fund monitoring committee constituted for the purpose.

* ***Timely release of grants***

  A separate joint account is opened for every funded research project in the name of the principal investigator of the project concerned and the registrar of the university. The research grants as and when released by the funding agency are instantly credited to the relevant joint account. Funds are allowed to be drawn from the joint bank account with the prior approval of the Vice Chancellor whenever required by the principal investigator.

* ***Timely auditing***

  Audit of the account is carried out at regular interval by Finance section of the University.

* ***Submission of utilization certificate to the funding authorities***

  Utilization certificate is submitted to the funding authorities as per schedule.

3.1.4 **How is interdisciplinary research promoted?**

* ***Between/among different departments /schools of the University***

BRDC has a policy for promotion of interdisciplinary and inter-departmental research. The interdisciplinary and inter-departmental research work is being carried out in a number of departments in which supervisors and co supervisors from two different departments are provided. For doctoral degrees, the choice of supervisor is not limited to the core Department. A scholar who is doing inter-disciplinary research can prefer the supervisor from other relevant department of the University. For the inter-disciplinary research work, the internal subject experts are being nominated from the relevant departments of the University as member of the doctoral committee.

In order to promote inter disciplinary research, the University has established the following Research Centres that receive financial support from the University and from external sources:-

(1) Centre for Advanced Material Science & Technology
(2) Centre for Networking
(3) Centre for Power & Energy
(4) Centre for Communication Systems
(5) Centre for Advanced Computing
(6) Centre for Biological Sciences

**** Collaboration with national/international institutes / industries.***

Some of the Departments of the University have signed MoUs with Industries for collaborative research.

3.1.5 **Give details of workshops/ training programmes/ sensitization programmes conducted by the University to promote a research culture on campus.**

Most of the departments of the University regularly organize National and International workshops/ training/ sensitization programmes where delegates from different countries participate. Work shop on research methodology is conducted every year for the benefit of scholars registered for Ph.D. programmes. This workshop is compulsory for all those who have registered for Ph.D. in our University without pre- doctoral degree. Training programmes on the utilization of Software packages like SPSS (Statistical Package for Social Science), RAD (Rational Application Development) are arranged regularly.

The details of programmes conducted by several departments from 2010 to 2014 are given below:-

S.No	Academic Year	Workshops	Training programmes	Sensitization programmes
1.	Aeronautical Engg.	4	1	-
2.	Automobile Engg.	1	-	-
3.	Chemistry	1	-	7
4.	Civil Engg.	2	2	-
5.	Computer Science & Engg.	11	16	-
6.	Electrical & Electronics Engg.	-	-	-
7.	Electronics & Communication Engg.	9	10	26
8.	Electronics & Instrumental Engg.	3	2	-
9.	English	-	-	-
10.	Information & Technology	5	4	-
11.	Management Studies	6	5	3
12.	Marine Engg.	-	-	-
13.	Mathematics	-	-	-
14.	Computer Applications	4	8	-
15.	Mechanical Engg.	7	5	2
16.	Nano Technology	1	-	-
17.	Physics	-	-	-
18.	Software	-	1	-

	Engineering			
19.	Biomedical	2	-	-

3.1.6 **How does the University facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?**

Nil

3.1.7 **What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

Research at the University falls under the following broad categories:-

1. Research undertaken as part of the requirement for Doctoral and M.Phil. programmes
2. Research undertaken by individual faculty
3. Extramural research projects
4. Research consultancy services

Annual Budget Allocation for and Actual Expenditure on Research

Particulars	**2014-15**		**2013-14**		**2012-13**		**2011-12**	
	Amount in lakhs	%	Amount in lakhs	%	Amount in lakhs	%	Amount in lakhs	%
Total Budget	4461.61		5001.67		3833.22		4224.23	
Allocation for Research	345.44	7.74	312.23	6.24	169.31	4.42	120.9	2.86
Actual Total Expenditure	3626.87		3798.15		3355.36		2882.63	
Actual Research Expenditure	202.08	5.57	247.09	6.51	151.31	4.51	74.57	2.59

3.1.8 In **its budget, does the University earmark fund for promoting research in its affiliated colleges? If yes, provide details.**

NA

3.1.9 **Does the University encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the University and other sources.**

The University has not instituted post doctoral fellowship so far.

3.1.10 **What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the University monitor the output of these scholars?**

Faculty members pursuing post doctoral and doctoral work are given lein facilities. Those who are doing research work are also granted leave of absence as per the demand of the work being carried out. During the last five years, four faculty members have availed lein to carry out their doctoral and post doctoral programmes.

3.1.11 **Provide details of national and international conferences organized by the University highlighting the names of eminent scientists/scholars who participated in these events.**

The various Departments of the University regularly conduct national and international conferences by means of which awareness is created among teachers and students on emerging areas of research.

Eminent Academicians/ Scientists from India and abroad have visited NICHE for various programmes and seminars/conferences of which a notable few are provided below:-

Name of the conference/ workshop/ training programme /seminar with Date	**Eminent Resource Person Name, Designation and Affiliation**
International Conference on Emerging trends in Electrical Systems-2010 25.03.2010 & 26.03.2010	• Prof. Mary Alvean B.Narreto, University of Philippines.
Latest Developments in Marine Engineering on 05-04-2010	• Mr. Pramod Khurana, President, KEI-RSOS, Mumbai
National Conference on Recent Advances in Mechanical Engineering (RAME 2011) 31-03-2011 & 01-04-2011	• Mr. Raju, Vice President, L&T, Mumbai • Mr. Kartikesan, Director, LPSC, Mahendragiri
International Conference on Signal Processing, Communication, Computing and Networking technologies (ICSCCN- 2011) 21.07.2011 & 22.07. 2011	• Dr. Madheswaran, Chairman, IEEE India EDS Chapter. • Dr.Mohammed Salem, Dean-Faculty of Compter Science Engineering, University of Wollongong, Dubai. • Dr.Mohammed Watfa, Assosiate Professor, Faculty of Compter Science Engineering, University of Wollongong, Dubai.
International Conference on Comprehensive Disaster Management (ICCDM-2012) 27.01.2012 & 28.01.2012	• Dr. Srikumar Banerjee, Chairman, Atomic Energy Commission, Secretary, Dept of Atomic Energy Govt. of India. • Dr. V.N. Rajasekharan Pillai, Executive Vice President & Principal Secretary, Dept of Science &Tech. Govt. of Kerala. • Dr. K. Gnanadesigan, IAS, Commissioner , • Revenue and Disaster Management, Govt. of TamilNadu, Chennai.

	• Dr. Syed S. Haque, Chairman, University of Medicine and Dentistry of NewJersoy, USA. • Dr. Fathima Lathif, Member of Parliament, Singapore. • Dr. Muhammad Z. Mamun, Professor, Institute of Business Administration, University of Daka, Bangladesh. • Dr. K. Chokkalingam, Professor, Dept of Criminology & Criminal Justice, University Missouri, St. Louis, USA. • Dr. Christina Weber, Professor, University of Applied Sciences, Munich, Germany. • Dr. Pradeep Kumar, Director, Indo-European Centre Wistula University, Warsaw, Poland. • Er. Innocent Roland Ogu, Director General & CEO,, Trans humanist Scientific Association, Abuja, Nigeria. • Dr. Stuart Enoch CEO & Programming Director, Doctor's Academy, U.K.
INSPIRE Science camp 02.02.2012 - 06.02.2012	• Dr. M. Lakshmanan, Professor of Emienence and DST Ramanna Fellow, Centre for Non Linear Dynamics, BDU Trichy. • Dr. M. Periaswamy, SS Bhatnagar awardee Central University of Hyderbad.
IEEE International Conference on Computing, Electronics and Electrical Technologies-2012 21.03.2012 & 22.03.2012	• Dr.A.SivathanuPillai, Distinguished Scientist and Chief Controller, Research & Development, DRDO, Ministry of Defence, New Delhi • Dr.B.B.Biswas, FNAE, Distinguished Scientist and Head (Reactor Control Division), BARC • Prof. Sisil Priyantha, Kumarawadu, • Prof & Chairman, IEEE, Sri Lanka Section, University of Moratuwa, Sri Lanka. • Dr. Paulose Jacob, Prof., Dept. of EEE,

	Cochin University of Science and Technology. • Dr. Ishak Aris, Dept. of EEE, Faculty of Engineering, University Putra Malaysia. • Prof. C. Kannan, Sr. Manager, TANGEDCO, Madurai. • Prof.DaikiKanou,, School of Tokai University, Japan • Prof.AkikoYoshizaki, School of Tokai University, Japan
National Conference on Physics of New Materials 20.04.2012 & 21.04.2012	• Dr. M. Lakshmanan, Professor of Emienence and DST Ramanna Fellow, Centre for Non Linear Dynamics, BDU Trichy. • Dr. D. Mangalaraj, Professor and Head Dept. of Nanoscience and Technology, Bharathiyar University, Coimbatore. • Dr. V.N. Mani, Scientist E, Centre for Material for Electronics Technology (C-MET), Hyderabad • Dr. P. Murugan, Scientist, Functional Material Division, CSIR- CECRI, Karaikudi. • Dr. M. Arivanandhan, Nanomaterials Laboratory, Research Institute of Electronics, Shizuoka University, Hamamatsu, JAPAN.
International Conference on Business and Disaster Management-2012 (ICBDM-12) Jan 27 & 28th 2012	• Dr. Mohammed Z. Mamun, Professor, Institute of Business Administration, University of Daka, Bangladesh.
INSPIRE Science camp 23.07.2012 – 27.07.2012	• Prof. G. Marimuthu, PhD, DSc, FNA, FASc, FNASc, Head & Chairperson, Dept Anim. Behaviour, Physiol School of Biological Sciences, Madurai Kamaraj University. • Dr. N. Chandrkumar, SS Bhatnagar awardee, Dept of Chemistry, IITM, Chennai
Recent Advances in Civil Engineering International Workshop	• Dr.Hanizah Binti Ab Hamid, Professor, Universiti Teknologi, Mara, Malaysia.

27-09-2012	• Dr.Hamidah Binti Mohd Salman, Associate Professor, Universiti Teknologi, Mara, Malaysia.
Two Day Workshop on Applications of Statistical Methods 11-10-2012 & 12-10-2012	• Dr. G. Arivarignan, Emeritus Scientist, CSIR Dept. of Applied Mathematics and Statistics, Madurai Kamaraj University, Madurai
International Conference on Modelling, Optimisation and Computing (ICMOC 2012)	• Dr. S. Iniyan, Director for Energy studies, Anna University, Chennai • Dr. U.T.S. Pillai, Head, Mechanical, CSIR, Trivandram • Dr. Moon. K. Chetry, Scientist, DRDO, Bangalore • Dr. Shyam Mohan, Director, Reusable Launch Vehicle, VSSC, Trivandram • Dr.SiauChing Lenny Koh, Professor & Director of Centre for Energy, Environment and Sustainability (CEES), University of Sheffield, London, UK
Mechcarnic 2KI2 28.02.2012 & 29.02.2012	• Dr.Kasinath Balaji, Site Director, NPCIL, Kudankulam • Dr.V.Radha Krishnan, Emeritus Professor, IIST, Trivandram
Workshop on career guidance and personality development Aspire-2012 09.03.2012	• Dr. M. Ayyapan, Director, Hindustan Latex Ltd. Trivandrum
Innovative Technologies and Challenges in Civil Engineering International Workshop 01.10.2013	• Dr. K.P. Issac, Member Secretary, AICTE, New Delhi. • Dr. S. Basil Gnanappa, Executive Secretary & Programme Director, ISTE, New Delhi.
CETA 2K13 13th April 2013	• Mr. Rajesh Devaraj, Dy Manager, Advanced Purchasing Continental Automotive Components, Bangalore
Mechcarnic 2KI3 20.02.2013 & 21.02.2013	• Shri.Sundar, Site Director, NPCIL, Kudankulam
International Conference on Engineering, Business and	• Dr. G. Madhavan Nair, Former Chairman, ISRO and Secretary

Disaster Management (ICBDM -2013) 08.03.2013 & 09.03.2013	Space Commission. • Padma Vibushan Dr. E. Balagurusamy Former Member, UPSC, New Delhi Former Vice Chancellor, Anna University, Chennai. • Prof. Dr. V. N. Rajasekharan Pillai Executive Vice President and Principal Secretary, Kerala State Council for Science, Technology and Environment, Govt. of Kerala. • Prof. Dr. K.J. Ramesh, Advisor to the Prime Minister of India, Disaster Support and Climate Change, Ministry of Earth Science, Govt. of India. • Dr. B. Nimala Dhasan, Professor, Faculty of Management Studies, University of Jaffna, Srilanka. • Mr. S. Subramaniam, Director, Doordharshan Kendra, TVM • Mr. Ryan Bank, Head, Social Innovation for the Coast Gurad & Founder, Social intelligence Corporation, USA. • Prof. Dr. Mrinal K Ghosh, Asian Development Bank, Vietnam. :
IEEE International Conference on Circuit, Power and Computing Technologies-2013 21.03.2013 & 22.03.2013	• Dr.K.Shanti Swarup, Prof., Dept.of Electrical Engineering, IIT Madras. • Dr. Syed Abdul Rahman, Al-Haddad Universiti, Putra Malaysia, Malaysia. • Dr. P. D. Chandana Perera, Dean, Faculty of Engineering, University of Ruhuna, Hapugala, Galle, Sri Lanka. • Prof. Akhtar Kalam, Victoria University, Melbourne, Australia.
IEEE Conference on Information and Communication Technologies (ICT 2013) 11.04.2013 & 12.04.2013	• Dr.V.R.Singh Fellow IEEE, Chairman, IEEE Delhi Section IMS/EMBS Chapter Secretary, IEEE India Council Distinguished Professor(Em)

	(INAE/AICTE), Formerly Director-Grade Scientist, National Physical Laboratory, New Delhi. • Dr. Guan Yong Liang, Head, Division of Communication Engineering ,Deputy Director, INFINITUS-Infocomm Centre of Excellence school of electrical and Electronics Engineering, Nanyang Technological University, Singapore. • Dr.Varun Jeoti, Associate Profess Electrical & Electronic Engineeri Department, Universiti Teknologi PETRONAS, Bandar Seri Iskanda TRONOH, Perak, Malaysia. • Dr. V. N. MANI, Scientist-E Head, Nano Electronics Devices& Energy Materials Division (C-MET)Department of Electronics &Information Technology, Govt. of India, Cherlapalli , Hyderabad 500 051. • Dr. Sabu M. Thampi, Professor, Indian Institute of Information Technology &Management – Kerala, Thiruvananthapuram, Kerala. • Dr. P.J. Apren, Head, R.F. System and Development Division, VSSC, Thumba, Thiruvananthapuram, Kerala. • Dr. Balan Sundarakani, Professor, University of Wollongong, Dubai, • Dr. Rajasree, M.S Director and Professor Indian Institute of Information Technology and Management-Kerala (IITM-K),Technopark, Thiruvananthapuram.
INSPIRE Science camp 15.07.2013-19.07.2013	• Dr. T.J.Pandian, Bhatnagar Awardee, Emeritus Professor, Dept of Genetics, Center for Excellence in Genomic Sciences, School of Biological Sciences, Madurai Kamaraj University,

	Madurai. 625 021. • Dr. S. Umapathy, Shanti Swaroop Bhatnagar Award, Sir C.V.Raman Award, J W T Jones Fellow from Royal Society of Chemistry, London and Swarnajayanthi Fellowship, Inorganic and Physical Chemistry, IISc, Bangalore. • Dr. M. Lakshmanan, Professor of Emienence and DST Ramanna Fellow, Centre for Non Linear Dynamics, BDU Trichy.
INSPIRE Science camp 20.11.2013 – 24.11.2013	• Dr. K.K. Bhasin, FNASc, prestigious Commonwealth Fellowship Award, Science Research Council fellowship (U.K) and DAAD fellowship (Germany)., Professor, Dept of Chemistry, Punjab University, Chandigarh. • Prof. Archita Patnaik, AvH Fellowship, NASA Fellowship, Max-Planck Research Fellowship, TWAS Fellowship, JSPS Fellowship, Fulbright – Nehru Fellowship, Member-DST Women Scientist scheme, Dept of Chemistry, IITM, Chennai. • Dr. T.J.PANDIAN Bhatnagar awardee, Emeritus Professor, Dept of Genetics, Center for Excellence in Genomic Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai. 625 021.
Workshop on Advanced Nano-Characterization Techniques as Complementary Tools for Biomolecular Applications (22nd Jan 2014 – 7th Feb 2014)	• Prof. P. Selvam, National Centre for Catalysis Research, Department of Chemistry, IIT-Madras, Chennai – 600036. • Dr. A. Sakthivel, Assistant Professor, Department of Chemistry, University of Delhi, North Campus Delhi – 110007 • Prof. Sushanta K. Badamali, Reader, Department of Chemistry, Utkal University, Bhubaneshwar, Odisha – 751004

Mechcarnic 2KI4 10.02.2014 & 11.02.2014	• Dr.K.Sivan,Director,VSSC,Trivandram
International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management (ICBDM 2014) 28.02.2014	• Mr. Bhatachariya, Member, NDA, New Delhi Former Chairman, Atomic Energy Commission. • Dr.Md. Z Mamum, Professor, University of Dhaka, Bangladesh. • Dr. A. Pushpanathan, Head, Department of Management Studies, Jaffna University, Srilanka. • Mr. Anders Gulmark, Educational Consultant for United Nation Development Programme, Denmark. • Mrs. Patainslse, Social Worker & Expert in Disaster Management, UK.
IEEE International Conference on Circuit, Power and Computing Technologies-2014 20.03.2014 & 21.03.2014	• Shri. Ramesh Khanna, TATA Consultancy Services, Chennai. • Dr. Bhim Singh, Prof., EEE Department, IIT Delhi. • Dr.Tan Kok Kiong, Prof., National Technical University, Singapore. • Dr. Mohammad Lutfi Othman, Prof., Faculty of Engineering, University Putra Malaysia, Malaysia.
New Generation of Business Computing through Cloud (NEWGBCC'14) 28.03.14 & 29.3.2014	• Mr. Bebin Suresh C, Mainframe & Environment QA–Practice Head, Wipro Technologies, Bangalore. • Mr. Muthuvel, General Manager – Software Development, Netree E- Services Pvt. Ltd., Chennai.
International Conference on Modelling, Optimisation and Computing (ICMOC 2014) 10.04.2012 & 11.04.2012	• Dr.N.Vedachalam,Emeritus Scientist, ISRO. • Dr.V.Narayanan, Group Director, Cryogenics, LPSC, Trivandram. • Dr.MattiMuthos, Research Director, University of Oulu, Finland. • Dr.Kamal Sharma, BARC, Mumbai.
Springer International Conference on Artificial	• Dr. Shivashankar .B. Nair, Professor & Head, Dept. of

Intelligence and Evolutionary Algorithms in Engineering Systems-2014 22.04. 2014 & 23.04.2014	Computer Science & Engineering Indian Institute of Technology, Guwahati. • Dr.Rusli Haji Abdullah, Software Engineering & Information System, Department Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia. • Dr. Guang -Bin Huang, Professor, Senior Member of IEEE, Nanyang Technological University ,School of Electrical Engineering, Singapore. • Dr.P. Karuppanan, Associate Professor, National Institute of Technology, Allahabad. • Dr.B.K.Panigrahi, Professor, EEE Dept. • Indian Institute of Technology, Delhi. • Dr. Swagatam Das, Assistant Professor, Electronics and Communication Sciences Unit Indian Statistical Institute, Kolkata.
International Conference on Control, Instrumentation, Communication & Computational Technologies (ICCICCT-2014) 10.07.2014 & 11.07.2014	• Dr. Ille.C. Gebeshuber, Prof.UKM, Malaysia & TU Wein, Austria. • Dr. S. R. Kola, Prof. Bowling Green State University, Ohio, USA. • Dr.Jiming Hu, Prof. Wuhan Univ, China. • Dr.R.Sundar, Site Director, KoodanKulum Nuclear Power Plant. • Dr.K.S.DasGuptha, Director ,IIST,Trivandrum • Dr. SelvaGanesan, Assistant Professor, Indian Institute of Space Science and Technology , Trivandrum. • Dr. S. Kumanan, Professor & Head, Production Engineering Department, NIT, Trichy • Mr.S.Subramanian, Senior Commissioning Engineer

	(Instrumentation), KKNP.
DST sponsored National Conference on Emerging Trends in Chemical Sciences 18.09.2014 & 19.09.2014	• Dr. S. Natarajan, FASc,FNASc, Dept of Chemistry, IISc, Bangalore. • Dr. S. Muthu Subramanian, Green Chemsitry Award from Royal Society Chemistry, Madurai Kamaraj University, Madurai
Ingenious Technologies and Sustainable Developments in Civil Engineering International Conference 08.10.2014	• Er. S. Kalirajan, Additional chief engineer, ACE (CV-1) & Chairman PA NPCIL – KudanKulam Nclear Power Project Committee.
Mechcarnic 2KI5	• Dr.A.Shivathanu Pillai, Founder CEO & Managing Director, BrahMos Aerospace Pvt. Ltd.
Mechcarnic 2KI5 12.02.2015 & 13.02.2015	• Dr.A.Shivathanu Pillai, Founder CEO & Managing Director, BrahMos Aerospace Pvt.Ltd
INSPIRE Science camp 12.02.2015 – 16.02.2015	• Dr. K. Porsezian, Pondicherry University • Dr. M. Periaswamy, Central University of Hyderbad. • Dr. G. Marimuthu, FNA, FNASc, Member-FIST committee, School of Biological Sciences, Madurai Kamaraj University, Madurai.
Science Academic Lecture Workshop on Emerging Trends in Chemical Sciences 20.02.2015 – 22.02.2015	• Dr. S. Chandrasekaran, *S.S. Bhatnagar Prize (CSIR), FASc, FNA, FTWAS*, IISc, Bangalore. • Dr. M. Palaniandavar, IITB, FNA, Mumbai • Dr. V. Subramanian, FASc, FNASc Senior Principal Scientist, CLRI, Chennai
"IEEE International Conference on "Emerging Trends in Science, Engineering, Business and Disaster Management (ICBDM- 2015) 27 – 28 February 2015	• Dr.KuncherianP.Isaac, Vice Chancellor, Kerala Technological University, Dr.Frederic Paul Bemak, Professor, George Mason University, Virginia, USA • Prof.Elizabeth Lee Dye, William & Mary College, Williamsburg, USA and Prof.Mary Giuliani, University of Montana, Missoula, U.S.A • Dr.Frederic Paul Bemak and

	Dr.Sachin Jain, Professor, Walden University, U.S.A.
IEEE International Conference on Circuit, Power and Computing Technologies 19.03.2015 & 20.03.2015	• Dr.B.K.Panigrahi, Prof., EEE Dept., IIT Delhi. • Dr.Nattachote Rugthaicharoencheep, Faculty of Engineering, Rajamangala University of Technology Phra Nakhon, Thailand. • Dr. M. Madheswaran, Chairman, IEEE, India Electron Devices Society Chapter. • Prof.Ken Takei, Research Associate, Hitachi Research Laboratory
Cyber Security and Cyber Forensics (CSCF'15) Workshop 31.03.15	• Mr. C Balan, Joint Director, Cyber Forensics Section, C-DAC, Thiruvananthapuram
International conference on soft computing systems-2015 20.04.2015 & 21.04.2015	• Dr.Pradip.K.Das, Associate Professor, IIT Guwahati. • Prof.D.Thukaram, Prof., Dept. of Electrical Engg., IISc, Bangalore.
Global Conference on Communication Technology 23.04.2015 & 24.04.2015	• Dr Jonathan Loo, Associate Professor in Communication Networks, School of Science and Technology, Middlesex University, UK. • Dr.V.Mariappan, Software Design Manager, Amazon, Chennai. • Dr. B. S. Manoj, Associate Professor, (Avionics/Computer Networking), Indian Institute of Space Science and Technology Trivandrum
International Conference on Advances in Engineering and Applied Sciences (ICAEAS-2015) 29.04.2015 & 30.04.2015	• Dr.Ramani Bai Varadharajan, Associate Professor, School of Civil Engineering, Linton university College,Bandar Universiti Technologi Legenda, West Malaysia. • Shri.M.S.S.RAO, ITS Chief General Manager, BSNL,Kerala Circle.
International Conference on soft computing in applied	• R.Umamaheswaran, Project Director, VSSC

engineering and sciences ICSCASE- 2015 23.07.2015 & 24.07.2015	

3.2 Resource Mobilization for Research

3.2.1 **What are the financial provisions made in the University budget for supporting students' research projects?**

Ph.D. fellowship is given to selected Full time scholars. A sum of Rs. 72.44 lakhs has been given as University fellowship for full time research scholars since the academic year 2010-11. Laptops have been provided at subsidized rates to students and faculty.

3.2.2 **Has the University taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?**

Yes, faculty are motivated to file for patents. Special IPR lectures have been arranged to initiate and stimulate the faculty in this direction.

- A patent for "An Artificial Vision Implant Device" (No: 201348, Intellectual Property of India) has been granted in the name of NICE.
- Dr. N. Chandrasekhar of Mechanical Engineering has been granted a patent for "Sun Tracker Device" (No: 251549, Intellectual Property of India).

Application Filed for Patents

S.No	Name & Designation of the Applicant	Title	Reference No
1	Dr. N. Chandrasekhar, Pro Vice Chancellor, Professor of Mechanical Engineering	Hydraulic Sun Tracker (HST)	1662/CHE/2005
2	Dr.A.E.Muthunayagam, Advisor	Integrated Ocean Energy cum Desalination system for ocean waters	CHE/3547/2010
3	Mr. Dharan, Final year B.E Mechanical Engineering	Next Generation Power Plant	4292/CHE/2014

3.2.3 Provide the following details of ongoing research projects of faculty:

Name of the Principal Investigator	Year wise	Number	Name of the project	Name of the funding agency	Total grant Sanctioned
A. University awarded projects					
Minor projects- Nil					
Major projects - 01					
Dr. A. Shajin Nargunam, Dr. S.S. Kumar, Dr. R. Ganesan, Dr. X. Felix Joseph, Mr. S. Selvanambi	2012-2016	01	NIU Satellite for Agricultural Crop Monitoring and Disaster Support	NICHE	5 Crore (utilized 3.7 Crore)
B. Other agencies - national and international (specify)					
Minor projects- Nil					
Major projects- 07					
Dr.S.Balamurugan	2012-2015	01	Synthetic Methodology and detailed investigation of nano metalo – cuprates.	DAE-BRNS	22 Lakhs
Dr. P. Nagendra Prasad	2012-2015	01	Physico Chemical Analysis of Various Biodiesel from different Bioenergy Crops	DST	18.74 Lakhs
Dr.M.Sivapragash	2013-2015	01	Characterization of Zirconium Oxide and Zirconium Nitride Nano Coated AZ91D Magnesium Alloy by Physical Vapour Deposition Method	DRDO	11 Lakhs
Dr. J. Joseph	2013-2016	01	Design And Development of Therapeutic Substitute for Existing Anti Tuberculosis agents Derived	DST	27 Lakhs

			from Copper Complexes		
Dr.M. Murugan	2014-2017	01	Biodiversity and molecular characterization of barilius species to resolve the taxonomic ambiguities using cytochrome C oxidase I gene	DST	20.39 Lakhs
Dr.Ramachandran	2015-2018	01	Characterization of Isomorphic Graphs, Diagraphs and Hypergraphs using Vertex Proper Substructure	DST	23.58 Lakhs
Dr. R. Rajesh	2015-2017	01	A Study of Third Party Logistics (3PL) Service Providers in India in 2014	ICSSR	3.50 Lakhs

3.2.4 Does the University have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

Nil

3.2.5 How many departments of the University have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Nil

3.2.6 List details of

* ***Research projects completed and grants received during the last four years (funded by National/International agencies).***

Sl. No	Name of the PI	Department	Title of the Project	Duration	Funding Agency	Amount Rs.	Status
1.	Dr. R. C. Mehta	Aeronautical Engg.	Computational fluid dynamics analysis of ejector-diffuser system used for testing of rocket engines in low pressure environment	2011 – 2013	ISRO-RESPOND	3 Lakhs	Completed
2.	Dr. V. L. Joseph Joly	Nano Tech.	Synthesis and Characterization of Nano-Sized Graphene and Graphite With Magnetic Edge-State	2011 - 2014	DST	19.90 Lakhs	Completed
3.	Dr. S. Ramachandran	Mathematics	Reconstruction of Number of Graphs and Diagraphs	2011 - 2014	DST	18 Lakhs	Completed
4.	Dr. J. Joseph	Chemistry	Therapeutic Agents for Alzheimer's Diseases: Synthesis, Characterization and Pharmacological Studies of Copper Complexes with 2-amino benzothiazole derivates	2011 - 2014	CSIR	18 Lakhs	Completed
5.	Dr. S. Balamurugan	Nano Tech.	Simple and efficient way of fabricating oxide nano-structured materials through molten flux technique	2011 - 2014	DST	27 Lakhs	Completed
6.	Dr. P. Venugopalan	Nano Tech.	Production of hydrophobic nano silica from rice husk /commercial	2012 - 2014	ISRO-RESPOND	15 Lakhs	Completed

			grade precipitate silica for reinforcement of rocket insulation rubber and thermal protection of reusable launch vehicles.				
7.	Dr. M. Murugan	Biomedical Engg.	Identification of Bar-coding Sequence and Molecular Characterization of Puntius Species to Resolve the Taxonomic Ambiguities using Cytochrome B Gene	2012 – 2014	DBT	18.11 Lakhs	Completed
8.	Dr. S. Balamurugan	Nano Tech.	Synthesis and Physico Chemical Properties of Nano-hexa Ferrites, MFe12O19M=Ba,SR,Ca for Hyperthermia Cancer Treatment Applications	2013	TSCSCT	2.03 Lakhs	Completed

* ***Inter-institutional collaborative projects and grants received***

i) All India collaboration

ii) International

Nil

3.3 Research Facilities

3.3.1 **What efforts have been made by the University to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?**

The University has subscribed to several e-resources (journals, databases, magazines) for the researchers and students. It promotes the purchase of research books, research software's subject to the availability of funds. Laptops are provided to students and faculty members at subsidized rate. Facilities such as 24x7 Wi-Fi

connectivity, University intranet, library and e-resources are provided to students and faculty members.

3.3.2 Does the University have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Yes, the common computing centre is utilized to cater to the needs of researchers and students. The campus is seamlessly 24x7 Wi-Fi enabled through broad band connectivity. The main objective of computing centre is to act as the nodal centre for all the information technology resources of the university. It involves design, installation and maintenance of the IT infrastructure including the network, software resources and IT enabled services and facilities.

From the University website, the scholar can access the status of the synopsis/thesis submission by providing their registration number. The status details are updated once a week so that anxiety of the students is mitigated in a transparent manner.

The details of research facilities available in University departments are listed in the University website.

The mail server (@niuniv.com) hosting in-house and email facility is extended to all faculty.

3.3.3 **Does the University have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?**

The sophisticated instruments of the University are utilized by the faculty members/research scholars of the University and researchers from other institutions through proper permission from the departments concerned.

3.3.4 Does the University provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes, hostel facilities are available for research scholars and research associates. University Guest Houses are available for visiting scientists and professors. 24x7 Wi Fi facility is provided to access internet and intranet resources.

3.3.5 Does the University have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?

Yes, the University has established six research centres (see 3.1.4) in order to meet the challenges and to develop interdisciplinary research.

3.3.6 Does the University have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Nil

3.4 Research Publications and Awards

3.4.1 Does the University publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

Yes, the University publishes the following three journals.

Sl. No	Name of the Journal	Publishing Department	ISSN No	Issues /years
1.	Noorul Islam Strategic Management Ambience	Management Studies	0973 - 3957	02
2.	Journal of Emerging Technologist	Electrical and Electronics Engineering	0973 - 2993	02
3.	Journal of Emerging Technology in Mechanical Science & Engineering	Mechanical Engineering	0976 - 2558	02

(a) Editorial board

Name of the Journal	Journal of Emerging Technology in Mechanical Science & Engineering	Journal of Emerging Technologist	Noorul Islam Strategic Management Ambience
Chief Editor	Dr. M. Sivapragash Professor, Dept. of Mechanical Engg., NICHE	L. Padma Suresh Professor and Head , Dept of EEE	Dr. B. Chandrachoodan Nair, Director, SOM
Managing /Executive Editor	Dr. R.Rajesh Professor, Dept. of Mechanical Engg., NICHE.	Dr. I. Jacob Raglend, Professor, Dept of EEE	Prof. Dr. K.A. Janardhanan, Director, HRM, NICHE
Editors	Dr. T.P.D.Rajan Scientist, Mechanical Engg. Division, NIIST, Trivandrum. Dr. T.Christober Professor, Dept. of Mechanical Engg., GCE, Tirunelveli. Dr.J. Selvin Raja Durai Associate Professor,	Dr. T. Sree Rengaraja Associate Prof/ EEE, Anna University constitution college, Nagercoil campus. Dr. D. Devaraj Professor/ EEE, Kalasalingam University Srivilliputhur	Dr. M.K. Ramachandran Nair Former Vice Chancellor, Kerala Dr. B. Rajasekaran, Professor and Head, Dept. of Management Studies, Manonmaniam Sundarnar

	Dept. of Mechanical Engg., GCE, Tirunelveli. Dr.T.Sekar Asst. Professor, Dept. of Mechanical Engg., GCE, Salem. Dr. M.Herbert Raj Project Manager, SIMTECH Systems, Hyderabad. Dr.K.Ganesh Consultant, IBM, Mumbai. Dr. Sathaya Narayanan Associate Professor, Dept. of Production Engg., NIT, Trichy. Dr. G.M.Joselin Herbert Professor, Dept. of Mechanical Engg., NICHE. Dr. T.Edwin Raja Dhas Professor, Dept. of Automobile Engg., NICHE. Dr. D.Kanagaraj Reader, Dept. of Manufacturing Engg., Annamalai University, Chidambaram. Dr. T. Ramadoss Scientist, INOC, New Delhi. Dr. A. Srinivasan Scientist, Mechanical Engg.	Dr. Saravana Ilango Associate Prof/ EEE NIT Trichy Dr. Jeevanathan Associate Professor/ EEE Pondicherry Engg. College, Pudhucherry	University, Tirunelveli, Tamil Nadu. Dr. Sreeranganathan, Director, School of Management, M. G. University, Kottayam, Kerala Dr. Mohamed Z Mamun Professor , Institute of Business Administration , University of Dhaka , Bangladesh. Dr. B. Nimala Dhasan Professor , Faculty of Management Studies, University of Jaffna , Srilanka. Mr. Ryan Bank Head , Social innovation For the Coast Guard & Founder, Social Intelligence Corporation , USA Dr. Ambalanathan HOD, Faculty of Management Studies, University of Jaffna , Srilanka. Prof. Dr. S. Edmund Christopher School of Management,

	Division, NIIST, Trivandrum.		NICHE Prof. Dr. A Merlin Thanga Joy, School of Management, NICHE

The research papers are reviewed by expert member and accepted for publication after plagiarism check.

3.4.2 **Give details of publications by the faculty:**

* ***Number of papers published in peer reviewed journals (National / International), Monographs, Chapters in Books, Books edited***

S.No	Department	In Peer Reviewed Journal	Mono graphs	Chapters in Books	Books edited
1.	Aeronautical Engg.	41	-	1	-
2.	Automobile Engg.	14	-	-	-
3.	Bio Medical Engg.	79	-	-	-
4.	Chemistry	17	-	-	-
5.	Civil Engg.	08	-	-	-
6.	Computer Science & Engg.	96	-	-	-
7.	Electrical & Electronics Engg.	155	-	22	04
8.	Electronics & Communication Engg.	46	-	-	-
9.	Electronics & Instrumental Engg.	46	-	-	-
10.	English	32	-	-	-
11.	Information & Technology	73	-	-	-
12.	Management Studies	32	-	-	-
13.	Marine Engg.	04	-	-	-
14.	Mathematics	53	-	-	-
15.	Computer Applications	39	-	-	-
16.	Mechanical Engg.	100	-	-	04
17.	Nano	62	-	-	-

	Technology				
18.	Physics	33	-	-	-
19.	Software Engineering	02	-	-	-

* ***Books with ISBN with details of publishers***

Sl. No.	Name of the Author(s)	Name of the Dept.	Book Title	Publisher	Year	ISBN
1.	Dr. M.Immaculate Mary Dr.P.B.Sarasija Ms.K.Uma Samundesvari and Mrs.K.R.Sobha	Mathematics	Applied Mathematics I	Anuradha Publications, VidayalKaruppur, Kumbakonam R.M.S, Pin 612605.	2011	978-81-8472-183-6
2.	Dr. M.Immaculate Mary and Ms.K.Uma Samundesvari	Mathematics	Applied Mathematics II	Anuradha Publications, VidayalKaruppur, Kumbakonam R.M.S, Pin 612605.	2012	978-81-8472-195-9
3.	Dr. M.Immaculate Mary Dr.K.Uma Samundesvari and Dr.K.R.Sobha	Mathematics	Engineering Mathematics – I	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2013	978-93-84295-06-6
4.	Dr. M.Immaculate Mary Dr.K.Uma Samundesvari	Mathematics	Engineering Mathematics – II	R.K.Publishers 26,RajeswariNagar, Nava India Road Coimbatore-614028	2014	978-93-84295-13-4
5.	Dr.B.Bindhu, P.Libin Raj, R.GeethaKumari. and N.Y.SugirthaSuni	Physics	Engineering Physics – II	R.K.Publishers 26,RajeswariNagar, Nava India Road Coimbatore-614028	2015	978-93-84295-11-0
6.	Dr.B.Bindhu, P.Libin Raj, R.GeethaKumari, N.Y.SugirthaSuni and Dr.T.Suthan	Physics	Engineering Physics – II	Anuradha Publications	2014	978-81-8472-197-3
7.	Dr.B.Bindhu, C.Sagi Rani, Dr.V.N.Meena Devi and Dr.R.Ganapathi Raman	Physics	Engineering Physics – I	R.K.Publishers 26,RajeswariNagar, Nava India Road Coimbatore-614028	2014	978-81-8472-179-9

8.	Dr.B.Bindhu, C.Sagi Rani, Dr.V.N.Meena Devi and Dr.R.Ganapathi Raman	Physics	Engineering Physics – I	Anuradha Publications	2013	978-81-8472-179-9
9.	B.Bindhu and P. Libin Raj	Physics	Engineering Physics II	Anuradha Publications	2012	978-81-8472-197-3
10.	M.Sirajul Muneera, T.M.Sharmila and T.Priyanka	Chemistry	Engineering chemistry-I	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2014	978-81-8472-180-5
11.	S.Pushpalatha, Dr.J.Joseph and Dr.V.L.Reena	Chemistry	Engineering chemistry-II	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2014	978-93-84295-12-7
12.	M.SirajulMuneera, T.M.Sharmila and T.Priyanka	Chemistry	Engineering chemistry-I	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2015	978-93-84295-05-9
13.	Dr.M.Ilankumaran, Ms. R. Abilasha and Ms. V.S. Bindhu	English	Technical English for Engineering Students –I	Anuradha Publications	2011	978-81-8472-181-2
14.	Dr.M.Ilankumaran, Ms. R. Abilasha, Ms. V.S. Bindhu and Ms. P. Deepa	English	Technical English for Engineering Students –II	Anuradha Publications	2012	9788184721966
15.	Dr.M.Ilankumaran and Ms. R. Abilasha,	English	Technical English for Engineering Students –I	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2015	978-93-84295/07/03
16.	TibbiePonSymon	EEE	Basic Electrical Engineering	Anuradha Publications	2012	978-81-8472-202-4
17.	K. Muthuvel, Dr.L.Padma Suresh, R. Rajesh and K. BharathiKannan	EEE	Basic Electrical Engineering	Anuradha Publications	2014	978-81-8472-202-4

18.	K. Muthuvel, K. BharathiKannan, Dr. L. Padma Suresh and V. S. Bindhu	EEE	Basic Electrical Engineering	Anuradha Publications	2015	978-93-84295-15-8
19.	Dr.J.Jayakumari,V. Anusooya and T.K.Sreeja	ECE	"Basic Electronics Engineering",	Anuradha publications,	2012	978-81-8472-203-1
20.	Dr.J.Jayakumari,V. Anusooya and T.K.Sreeja,	ECE	"Basic Electronics Engineering",	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2015	978-93-84295-16-5
21.	Dr. M. Murugan	Biomedical Engg	Indian Ocean Tsunami - Impact on coastal ecology in Tamilnadu and Pondicherry	Manonmaniam Sundaranar University Publications-Tamil Nadu, India	2012	978-9381402-23-8
22.	Dr. M.SivaPragash, Dr. R.Rajesh and N.Nalanth	Mechanical Engg.	A text Book on Basic Mechanical and Civil Engineering	IT Publication	2013	13978 81-907917-2-4
23.	Dr.S.Sundaram, Dr.S.C.Vettivel and Dr.M.Sivapragash	Mechanical Engg.	Tribology	Raj Pathippagam, Nagercoil	2015	978-93-84737-04-7
24.	Dr.S.Sundaram, Dr.S.C.Vettivel and Dr.M.Sivapragash,	Mechanical Engg.	Vibration,	Raj Pathippagam, Nagercoil.	2015	978-93-84737-05-4,
25.	Dr.S.C.Vettivel and Dr.M.Sivapragash	Mechanical Engg.	Composite Materials	Win-Tech Publications, Nagercoil.	2015	978-93-80609-30-0,
26.	Dr.S.C.Vettivel and Dr.M.Sivapragash	Mechanical Engg.	Engineering Materials and Metallurgy,	Win-Tech Publications, Nagercoil.	2015	978-93-80609-24-9,
27.	Dr.R.C.Mehta	Aeronautical Engg.	Experimental Investigation of Hypersonic Flow over Spiked Blunt Body	Lambert Academic Publishing, Germany	2012	10: 3848442566

28.	Dr. R.Kalai Selvi C.P.Maheswaran and R.Suji Pramila	CSE	Fundamentals of Computing and Programming	Anuradha Publishers	2013	978-81-8472-182-9
29.	Dr. R.Kalai Selvi, C.P.Maheswaran and R.Suji Pramila	CSE	Fundamentals of Computing and Programming	R.K.Publishers 26,RajeswariNagar,Nava India Road, Coimbatore-614028	2015	978-93-84295-07-3
30.	Dr. K. A. Janardhanan	Management Studies	An Introduction to Research Methods	NIU Publications, Professional & Technical Publishers, Gandhipuran,	2014	978-81-910224-8-3

* ***Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.), Citation Index – range / average, SNIP, SJR, Impact Factor – range / average , h-index***

S.No	Department	International Database (SCOPUS, Web of Science, EBSCO)	SNIP / SJR	Impact Factor (Thomson Reuters)	h-index *	Citation index*
1.	Aeronautical Engg.	30	3.234	16.354		
2.	Automobile Engg.	09	1.74	7.4		
3.	Bio Medical Engg.	43	4.432			
4.	Chemistry	27	14.17	28.667		
5.	Civil Engg.	08	0.15	-		
6.	Computer Science & Engg.	68	-	-		
7.	Electrical & Electronics Engg.	155	-	-		
8.	Electronics & Communication Engg.	19	2.475	-		
9.	Electronics & Instrumental Engg.	23	4.28	-		
10.	English	-	-	-		

11.	Information & Technology	31	2.578	-		
12.	Management Studies	12	1.56	-		
13.	Marine Engg.	02				
14.	Mathematics	13	3.807	1.18		
15.	Computer Applications	16	2.953			
16.	Mechanical Engg.	49	5.645	15.191		
17.	Nano Technology	31	21.07	39.49		
18.	Physics	20	7.54	28.14		
19.	Software Engg.	02	-	-		

***** - To be shown at the time of Peer Team Visit

3.4.3 **Give details of**

* ***Faculty serving on the editorial boards of national and international journals***

Some of the faculty members are serving on the editorial boards of National and International Journals:

S.No	Name of the Faculty	Journal Name
1.	Dr.S.Gopalakrishnan	Journal of Current Science
2.	Dr.S.Gopalakrishnan	Indian Journal of Environmental Science and Eco-Planning
3.	Dr.V.N. Meena Devi	American Journal of Physics and Application
4.	Dr.V.N. Meena Devi	International Journal of Applied Physics (IJAP)
5.	Dr.V.N. Meena Devi	International Journal of Oil, Gas and Coal Engineering, Science PG Journal
6.	Dr.V.N. Meena Devi	Journal of Chemistry, Science PG Journal
7.	Dr. J. Joseph	TANG [HUMANITAS MEDICINE] eISSN : 2233-8985
8.	Dr L. Padma Suresh	International Journal of Advanced Electrical and Computer Engineering
9.	Mr. N. Nalanth	International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767

10.	Mr. D. Allwin	International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767
11.	Ms.Abisha Justus	International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767
12.	Dr.J.Jayakumari	International Journal of Electronics Communication and Computer Engineering (IJECCE) (ISSN: 2249 –071X).
13.	Dr.J.Jayakumari	International Journal of Engineering Innovations and Research(IJEIR)(ISSN No:2277-5668)
14.	Dr.J.Jayakumari	International Journal of Electronics and Communication Engineering (IJECE) (ISSN 0974-2166)
15.	Dr.J.Jayakumari	Advances in Wireless and Mobile Communications (AWMC) (ISSN 0973-6972)
16.	Dr.J.Jayakumari	International Journal of Wireless Networks and Communications (IJWNC) (ISSN 0975-6507)
17.	Dr.J.Jayakumari	International Journal of Electronics Engineering Research (IJEER) (ISSN 0975- 6450)
18.	Dr.J.Jayakumari	International Journal of Wireless Communication and Simulation (IJWCS) (ISSN 2231-1254)
19.	Dr.J.Jayakumari	International Journal of Electronic and Communication Engineering (IJECR) (ISSN 2231-1246)
20.	Dr.J.Jayakumari	International Journal of Mobile Communication and Networking (IJMCN) (ISSN 2231-1203)
21.	Dr.J.Jayakumari	International Journal of Communication Engineering and Technology (IJCET) (ISSN : 2277- 3150)
22.	Dr.J.Jayakumari	International Journal of Wireless Networks and Applications (IJWNA) (ISSN No. 2250 - 3250)
23.	Dr. S. Maria Celestin Vigila	Sino-American Scholars Online academic society, special issue on Computer Security and Cryptography
24.	Dr. Dharun V S	International Journal of Advanced Research Trends in Engineering and Technology
25.	Dr. Dharun V S	International Journal of Advanced Research Trends in Engineering and Technology
26.	Dr.M. Sivapragash	Journal of Emerging Technology in Mechanical Science & Engineering , ISSN: 0976 - 2558
27.	Dr.M. Sivapragash	International Journal of Advances in Materials, ISSN: 2327-2503
28.	Dr. R.Rajesh	Journal of Emerging Technology in Mechanical Science & Engineering , ISSN: 0976 – 2558

29.	Dr. R.Rajesh	International Journal of Operations, Systems and Human Resource Management, Serials Publications, New Delhi.
30.	Dr. R.Rajesh	International Journal Green Computing, IGI Global Publications, Hershey, PA 17033, USA.
31.	Dr. G.M.Joselin Herbert	Journal of Emerging Technology in Mechanical Science & Engineering , ISSN: 0976 – 2558
32.	Dr. R.Rajesh	International Journal of Decision Making in Supply Chain and Logistics, Serials Publications, New Delhi
33.	Dr. R.Rajesh	International Journal of Applied Science and Engineering In association with Information Science and Technology Foundation, New Delhi
34.	Dr. R.Rajesh	International Journal of INFORMATION SCIENCE AND COMPUTING, Renu Publishers ,New Delhi – 110059 (India)
35.	Dr. T.Edwin Raja Dhas	Journal of Emerging Technology in Mechanical Science & Engineering, ISSN: 0976 – 2558
36.	Dr.R.C.Mehta	CFD journal, Japanese Society of CFD, ISSN: 0346 – 2456
37.	Dr.M.Ilankumaran	Journal of Higher Education & Research Society (A Refreed International Journal ISSN-2321-9432)
38.	Dr.R.Pranesh Kumar	Journal of English Language and Literature - JELAL
39.	Dr. B. Chandra Choodan Nair	Journal Management Researcher IMDR, Trivandrum

* ***Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies***

The University conducts national/international conferences/ seminars regularly and more than 70% of the faculty members served/serving as steering committee members of the conferences conducted by the University or by other organizations.

3.4.4 Provide details of

* ***Research awards received by the faculty and students***

By faculty

S.No	Name of the faculty member/ Department	Award Details	Name of the agency (year)
1.	Dr. M. Murugan, Associate Professor /Bio Medical Engg.	Fellowship –National Developmental and Reform Commission, China	Fellowship for participating in the International Conference on “Climate Change at

			Low Carbon development-2015" at China (2015)
2.	Dr.J.Joseph, Associate Professor/ Chemistry	Young Researcher Award	Noorul Islam Center For Higher Education (2014)
3.	Dr.J.Joseph, Associate Professor/ Chemistry	Best oral paper presentation	International Conference on Global opportunities for latest developments in Chemistry and Technology (2014)
4.	Dr.J.Joseph Associate Professor/ Chemistry	Summer Research Fellowship	Punjab University Chandigarh (2014)
5.	Dr.J.Joseph Associate Professor/ Chemistry	Young scientist	DST, Govt of India (2014)
6.	Dr. T. Suthan, Assistant Professor / Physics	Travel Grant - DST	Fellowship for participating the International Conference at Singapore (2013)
7.	Dr.R. Rajesh, Professor & Head/Mechanical Engg.	Best Ph.D thesis award	Department of Manufacturing Engineering, Annamalai University (2011)
8.	Dr. T. Suthan, Assistant Professor / Physics	Best Paper Award	"National Seminar on Recent Trends in Physics" held at Shivani Engineering College, Thiruchirapalli – 620009, during March 18-19 (2011)
9.	Dr.R.C.Mehta, Professor/ Aeronautical	Lifetime Achievement Award	Flow Physics Society, India. (2014)

By Students

S.No	Name of the student	Department	Award Details	Name of the agency
1.	Joe Dixen,	M.Phil/Physics	Best Paper	"UGC sponsored National Conference on Emerging Trends in Applied Physics (NCETAP-2015) organized by Department of

				Physics, Lekshmipuram College of Arts and Science, 19th & 20th February 2015.
2.	K.Nagashri	PhD/Chemistry	Fellowship	DST INSPIRE Fellowship, Govt of India (2010)
3.	G.Boomadevi Janaki	PhD/Chemistry	Fellowship	Senior Research Fellowship from CSIR, New Delhi (2010)
4.	K.Nagashri	PhD/Chemistry	Summer Research Fellowship	NIIST, Trivandrum (2013) Mentor: Dr. Suresh das, Director, NIIST
5.	BK Sharmi	S4 ME (communication system)	Project Fellowship award	ICT academy of Tamilnadu
6.	M.Afzal bahin , Abdul Basith Ali, G. Anand	BEECE (6th semester)	Second prize winner in Project Presentation	Anna University, Coimbatore Mar20th,2010
7.	S. Muthu Lekshmi	BEECE (6th semester)	First prize winner in project competition ,	Noorul Islam Centre For Higher Education , 2nd March 2012
8.	Jishnu	BEECE (8th semester)	Merit award	Kerala state cooperative employee's welfare board, 12 Nov 2014
9.	Hemanth Mithun Praveen	BE mechanical 6th SEMESTER	Second prize	Indian Institute of Space Science and Technology March 1st to 4th Trivandrum
10	Anantha Krishnan AJ & Ajay Vaishakh	BE mechanical 3rd SEMESTER	2nd prize , Paper Presentation	, VV Yenthiraz'14 , VV College of Engineering , Tirunelveli district, 10-10-14
11	Anantha Krishnan AJ & Ajay Vaishakh	BE mechanical 3rd SEMESTER	Best prize	National Conference , Shri Vlapully Nateson College of Engineering

				Trivandrum , Kollam,20-02-2015

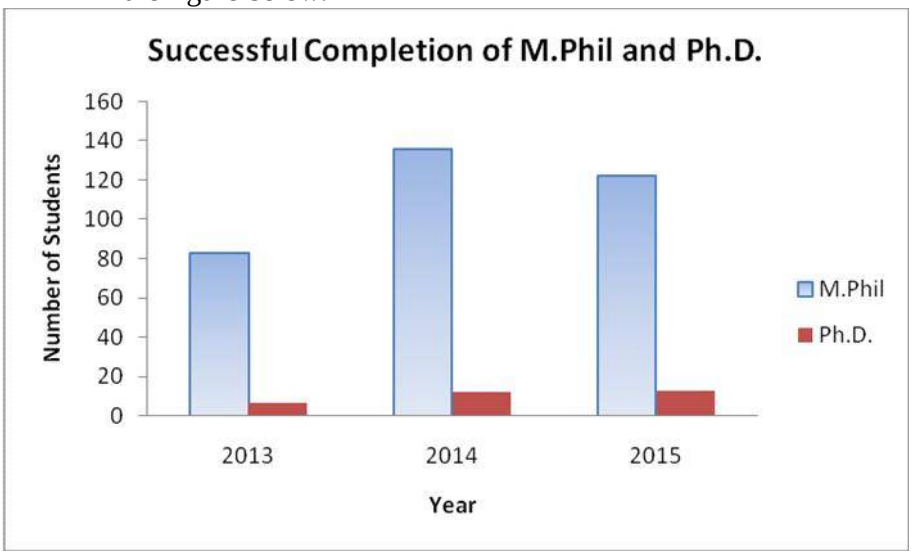
* ***National and International recognition received by the faculty from reputed professional bodies and agencies***

- Dr. A.E. Muthunayagam, Advisor nominated as Chairman of Expert Committee for Kudankulam Nuclear Power Project by Govt of India.
- Dr. A.E. Muthunayagam, Advisor has received the prestigious Aryabhatta award, instituted by the Astronautical Society of India (ASI), for 2010.
- Dr. R. Perualsamy , Vice Chancellor has been honored with Best Academician Award -2014 by Aryabhata Cultural Organization, Bangalore on 22nd June 2014.
- The University satellite team has bagged the prestigious Best Paper Award carrying a cash reward of US $ 1500 in the three day International Workshop on Small Satellite and Sensor Technology for Disaster Management sponsored by Indo US Science & Technology Forum and organized by IISc Bangalore, Lockheed Martin USA and CANEUS, Canada at Bangalore from 31st March to 2nd April 2014.
- Mr.S. Gobalakrishnan has been awarded the TNSCST – Young Scientist Fellowship award for the year 2011-2012
- Dr. S.Ramachandran, Professor of Mathematics has been selected as the Fellow of Institute of Cominatorics and its Applications, Winnipeg, Canada.
- One of the publications of Dr. R.C. Mehta, Professor of Aeronautical Engineering has been cited more than 5000 times in reputed articles.
- Dr. R.C.Mehta received 25 years Senior Member Recognition Certificate from American Institute of Aeronautics & Astronautics in 2014.
- Dr. R.C.Mehta was selected as Senior Fellow in Nanyang Technological University, Singapore in 2010.
- Ms. Preenu P Sen and Dr. M. Murugan have received Susratha National Award (Second Prize) from DST-MSME, Govt. of India.

3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the University participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

- During the last three years, an average number of 0.16 and 2.05 successful Ph.D. and M.Phil. Scholars have been guided per faculty.
- The University has not deposited any Thesis in INFLIPNET till now. Efforts are being made to deposit the theses soon.

- The number of M.Phil and Ph.D scholars who have successfully completed during the last three years are provided in the figure below.



3.4.6 What is the official policy of the University to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

University discourages malpractices and plagiarism in research. All the scholars must check their theses for plagiarism before submission of the theses. University has subscribed to plagiarism checking software (licensed software accessed through CheckForPlagiarism.net). No case of plagiarism has been reported so far.

3.4.7 Does the University promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Yes, one of the major steps in promoting interdisciplinary and interdepartmental research is the NIU satellite project jointly under taken by Departments of Mechanical Engineering, Nano Technology, Aeronautical Engineering, Aerospace Engineering, Electrical and Electronics Engineering, Electronics & Communication Engineering and Physics.

More than 36 of inter-disciplinary research projects are being carried out by Ph.D., research scholars.

3.4.8 Has the University instituted any research awards? If yes, list the awards.

Yes, Department of Management Studies of the University has instituted Best Researcher and Best Innovative Research Award to be given every year.

3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

University has initiated a scheme for providing incentives for research contribution. The scheme envisages increment in salary and also promotion in the rank.

3.5 Consultancy

3.5.1 **What is the official policy of the University for Structured Consultancy? List a few important consultancies undertaken by the University during the last four years.**

The University has a policy for consultancy services. These are grouped under three heads:-

1) Services where institutional consumable and non-consumable facilities are required to be used.
2) Services where only institutional non-consumable facilities are to be used.
3) Advisory consultancy in which the University facilities are not to be used.
   - ❖ The department of Civil Engineering generated Rs. 2.26 lakhs through institutional non consumable category from 2010-11 to 2014-15.
   - ❖ The department of Nano technology generated Rs. 2.26 lakhs through institutional consumable category from 2010-11 to 2014-15.

Year	Department of Civil Engg		Department of Nanotechnology	
	Number of consultancies	Amount (in Rs)	Number of consultancies	Amount (in Rs)
2010-11	2	1,26,075	-	-
2011-12	2	81,700	-	-
2012-13	3	13,150	113	30,600
2013-14	3	5,100	86	87,635
2014-15	-	-	127	1,08,030
Total		**2,26,025**		**2,26,265**

- ❖ Dr. S. Gopalakrishinan, Controller of Examinations, has served as advisory committee member at the DST Project on herbal Drug Research on Carism Center for Advanced research in Indian System of Medicine at Sastra Deemed University, Tanjore.
- ❖ Dr. S. Gopalakrishinan, Controller of Examinations, has served as Consultant on phyto-chemistry aspect to Pharma Product Pvt. Ltd, Tanjore.
- ❖ Dr. M. Murugan is an advisory consultant for the Coastal

Action Network, Nagapattinam and Social Need Education and Human Awareness (SNEHA) – an NGO, Nagapattinam.

- Prof. R. Venugopala Pillai is an advisory consultant for Marg Karaikal Port, Karaikal, Mutha Logistics – P & I Club and Cochin Shipyard, United India Insurance.
- Dr. K. Janardhanan is an advisory consultant for the Vijay Institute of Management, Dindigul.
- Dr. J. Joseph is an advisory consultant for the Alen Mineral Plant, Nagercoil.
- Prof. N. Nalanth is a structural consultant for Bharath Constructions Pvt. Ltd, Nagercoil.
- Mr. S. Albert Jerome is Biomedical Engineering consultant in RETNA Hospital, Samiyarmadam for Biomedical Equipment maintenance.
- Dr. M. Murugan is a Scientific advisory consultant for CAN NGO, Nagapattinam for Environmental related Issues.
- Mrs I. Sowmy is Biomedical Engineering consultant in P.P.M Hospital, Rajakamangalam for Biomedical Equipment maintenance.
- Mrs J. Benita is Biomedical Engineering consultant in James Hospital, Colachel for Biomedical Equipment maintenance.
- Mrs V. Femi is Biomedical Engineering consultant in Siva Hospital, Eraniel for Biomedical Equipment maintenance.
- Mr. S.G. Saju Simon is Biomedical Engineering consultant in NIMS Hospital, Neyyattinkara for Biomedical Equipment maintenance.
- Dr. L. Padma Suresh, Dr.G.Glan Devadhas and Mr.J.NavisThinagar is consultant for PLC Installation, Programming,testing and training – Puthalam Chemicals Pvt. Ltd., Thenkamputhoor.
- Dr.R.Ganesan and Dr. S. S.Kumar is MATLAB simulation consultant for Soft Expert Solutions Pvt. Ltd.
- Mr.D.Jackson is Layout design and HT wiring consultant for Shree Ganesh LPC Pvt.Ltd., Aralvaimozhi.
- Mr.D.Jackson is Solar panel testing consultant for Chrisam Traders, Chennai.

3.5.2 Does the University have a university-industry cell? If yes, what is its scope and range of activities?

Yes, the University has Institution Industry Interaction Cell. This cell develops linkages between the University and industries through regular meetings, conferences, skill training and in plant training.

3.5.3 What is the mode of publicizing the expertise of the University for consultancy services? Which are the departments from whom consultancy has been sought?

Expertise of the University is publicized through University web-site, pamphlets circulation to the nearby industries and

arranging workshops for University and industrial experts. In addition to these there are also personal level contacts.

3.5.4 How does the University utilize the expertise of its faculty with regard to consultancy services?

The University publishes the expertise available for consultancy services regularly on the University Website and University News Letters and some of the faculty members are serving as advisory consultant for various industries/institutions.

3.5.5 **List the broad areas of consultancy services provided by the University and the revenue generated during the last four years**.

- ❖ The major area of consultancy includes **material testing** by the department of civil engineering, **sample characterization** by the nano technology, etc.,
- ❖ The University has **generated 4.52 lakhs** through various consultancy services during the last four years.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the University sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

- The University regularly conducts social outreach programmes through **NSS**, **YRC** and **RRC**. Faculty members and students are involved in organizing these programmes and taking active part in them.
- World Environment Day is celebrated on 5th June 2015 with a variety of events including planting large number of tree saplings and conducting seminars.
- The University has anti ragging committee which makes broader arrangements to prevent ragging in the campus before the classes of new batches start.
- Noorul Islam University in Association with NIMS Medicity, Neyyattinkara conducted a free Medical Camp and Expo on 28th Feb 2013. More than 350 students and staff benefited from the camp where 80 patients underwent various tests at free of cost.
- Unity day, Voters day, Independence Day, Republic day, Science day, Teachers day are conducted regularly.
- DST-Inspire Camp is regularly organized by the University every year- The objective of the programme is to help the local school students to do basic experiments in science which they study in schools. So far six Inspire Camps funded by DST have been organized by the University and the details are given below

Duration	Funding Agency	Amount (in Rs.)
02-06th Feb 2012	DST, New Delhi	975000.00
15-19th July 2012	DST, New Delhi	975000.00

15-19th July 2013	DST, New Delhi	975000.00
20-24th November 2013	DST, New Delhi	975000.00
04-08th August, 2014	DST, New Delhi	975000.00
12-16th Feb, 2015	DST, New Delhi	975000.00
08th-12th Oct, 2015 (proposed)	DST, New Delhi	975000.00

- Cancer Awareness and a free Medical Camp was organized at Noorul Islam University in association with NIMS Medicity, Neyyattinkara, and Regional Cancer Center (RCC), Trivandrum on 23rd and 24th Feb 2012.
- A Voluntary Blood Donation Camp was organized at NICHE on 25th April 2012, where Dr. Caroline Geetha, District Blood Bank Officer delivered a lecture to the students on the importance of blood donation awareness. The camp was very successful with 159 donors donating the blood. More than 300 people from various villages in and around were benefited by the camp. In which 18 patients underwent PAP Smear Test and five patients tested positive for cancer.
- An Eye Check up Camp was organized in association with Vasan Eye Care Hospital, Nagercoil on 26th July 2012. Dr. Kamal Pradeep, Director, Vasan Eye Care Hospital delivered a lecture to the students regarding maintenance of eye and general health. Around 200 students took part in the camp.
- Eye Donation Awareness Camp and a Free Eye Check up Camp was organized in association with Bejan Singh Eye Hospital on 12th February 2013. Dr. Manumohan and team delivered a lecture to the students regarding the importance of eye donation. Around 100 students took part in the program.
- A Blood Donation Camp was organized at NICHE in association with Govt. Medical College, Asaripallam in the hill top auditorium of NIU on 29 January 2014. The camp was inaugurated by the Blood Bank Medical Officer Dr. R. Kaveri of Medical College Blood Bank Asaripallam. The camp was very successful with 165 students donating blood.
- YRC, RRC and NSS regularly organize Blood Donation camps at the University every year and send the blood donors on request to the concerned hospitals.
- For needy and emergency operations of NIMS hospital (a sister concern) Neyyattinkara, the student volunteers of specific blood groups are sent by the University ambulance and thereby saved a number patients.
- Department of Computer Applications organized one week Training Program for Panchayat officers of Kanyakumari District during 18.11.2013 to 22.11.2013.

3.6.2 How does the University promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?

- The awareness programmes of NSS, YRC and RRC help the people in and around the University and they benefit largely. Exhibition organized during the Mechanical- EXPO helped the Self Help Groups to showcase their products and which served as advertisement and also effected sales. Every year Department of Mechanical Engineering organized EXPO with CAR SHOW and PROJECT EXPO. Many of the Govt/Private agencies exhibit their stalls in the EXPO is open to all. During the EXPO about 3000 visitors from neighbouring School/Colleges/near by village persons took part and benefited.
- The Department of Biomedical Engineering and NIMS jointly conducted a free medical check up in the University campus for the benefit of the neighbouring villages.
- NICHE is organizing a special Training program for the students of UG. & PG. classes of our University who aspire to appear for the IAS/IPS/IFS examination by the Union Public Service commission, Govt of India. The classes will be on Saturdays at NICHE and trained peoples from NICS (Noorul Islam Civil Service Academy- a sister concern) are coaching the students since 2014-15. From the last academic year (2014-15) 57 students from this University are being trained.
-

3.6.3 How does the University promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programmes?

- Every NSS volunteer has to complete 120 hours of service under the regular activities. University has five self-financing NSS units (3 unit for boys and 2 units for girls) which started form the year 2014.
- Students are also actively participating in extension activity through different clubs (Science Club, Physics Club, Fine arts club, Green Club, Innovation Club and Aero Club).

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the University to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

Noorul Islam Centre for Higher Education has undertaken a project on Seaweed Cultivation at Kanyakumari District for the benefit of economically weaker coastal community. A Training programme was organized for 100 women from the coastal villages of Kanyakumari District and which was conducted by specialists from Aquaculture Foundation of India, Chennai. Out of these 130 members of SHG of Leepuram village of Kanyakumari District were selected and the sea weed cultivation programme was launched. This project was started on 27-11-2009 with the help of

officials of Aquaculture Foundation of India, and Officials of Department of Fisheries, Tamil Nadu. During February 2010, the seaweeds were harvested and sold. The income generated from this project was shared by participants. The total expenditure of Rs. 1, 34,850/- for the project was borne by NICHE. Now this project is managed and run by SHG women of Leepuram, Kanyakumari District.

- The Noorul Islam College was established during the year 1989 under Monomaniam Sundaranar University. In order to provide job for the school drop outs, widows and very poor people a community college was started. In which Diploma courses in computer Training courses and Teacher Training programs to enhance their qualification and employability. Most of the students were inducted in our University computer labs as Lab Assistance.
- Also the University is located in a rural village namely Kumaracoil. The university employed the nearby village people as many as possible depending upon their qualification and status. Some of the teaching faculty members are also belong to this locality. The other categories such as Administrative staff, lab Assistance, watchmen, Drivers, Assistant Wardens, cooks, Assistant cooks, Health Assistant and so on are appointed as regular staff. The detail of number of staffs appointed from the nearby village is given below:

Nature of Job	No of Persons Appointed
Lab Assistance	69
Watchmen	69
Drivers	84
Asst Wardens	21
Cooks	12
Asst cooks	14
Health Asst	13

3.6.5 Does the University have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

The NSS Units in the University have taken the responsibility of ensuring students' involvement in various social activities thorough conducting such as literacy awareness, road safety awareness, voting right awareness programmes and enriching their social responsibility towards the society.

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

- The NICHE aware of the lack of prediction systems in Tamil Nadu and India of devastating natural calamities like earthquakes, tsunami and floods till recently. Therefore, an earnest investigation into the possibilities of prediction of natural calamities became a matter of concern for the institution. The same has been discussed with Dr. A. E.

Muthunayagam, the father of Propulsion Technology in Indian Space Programme, ISRO and the present Advisor of NICHE. With such high goals as to protect the lives and properties and even infrastructure during natural disasters, the NIU, ventured into building and launching a Nano Satellite into space with the support ISRO. This has resulted in the NIU Nano Satellite Project in alliance with ISRO, Govt. of India. The purpose of building the nano satellite is for disaster prediction and for developing a disaster management support system to support the costal people of Kanyakumari District.

- Further, being a Higher Education Institution, the second objective of NIUSAT initiative is to empower the institution with satellite technology and substantially enable our students to have access to satellite technology which will result in social uplifting. As an initial step we are developing a nano-satellite "NIUSAT MARK I – NOORUL ISLAM UNVIERSITY STUDENT NANO-SATELLITE".

3.6.7 How does the University ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the University which have encouraged community participation in its activities.

- Noorul Islam college of Engineering adopted two Govt Middle Schools one at Thuckalay and another at Kaliyakkavilai in Kanyakumari District and donated free uniforms, books, stationeries etc., for the past 10 years. Also the college has provided personal computers to many schools and trained the teachers in computer operations. When the college was declared as Deemed- to -be university in the year 2008-09 it extended its domain by adopting more schools. This is one of social welfare schemes for the poor and needy in Kanyakmari District. Now Noorul Islam Centre for Higher Education has adopted the following Government middle schools and provides their immediate needs.

Schools adopted by NICHE

S.No	Name of the School	No of Teachers appointed
1.	Government Middle School, Thuckalay	3
2.	Government Middle School, Adaikkakuzhi	4
3.	Government Muslim Primary School, Kaliyakkavilai	2
4.	Government Middle School, Lakshmi Puthukadai	2
5.	Government Middle School, Pooramcode	3

- Noorul Islam Centre for Higher Education has appointed and agreed to pay salary for two or three additional teachers depending on their needs under PTA scheme for each school.

This is due the non availability of teachers by the Government. Their monthly salaries are given by NICHE. Apart from this, free uniforms (two sets each) are given to each student in every year. Also the cost of text books, stationeries and expenses of educational tours etc.., are also met by the university. The amount of salary is around Rs. 3.12 lakhs / year and the cost of uniforms for all these schools is approximately Rs. 5 Lakhs / year.

3.**6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.**

- University has been selected as the Best University with the educational and social commitments in the rural areas by the Planning Commission of India and ASSOCHAM India in the year 2014.
- University received appreciation from District Collector of Kanyakumari District for being the highest blood donor among Educational Institutions in Kanyakumari district since 2011 to till date.

3.7 Collaboration

3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the University benefitted academically and financially because of collaborations?

- "NIUSAT Program" initiative, made during the academic year 2012-2013 under ISRO Student Satellite Program has progressed very well. Now, the project management system is defined and the project teams are established with NIU faculty and students towards the development of NIUSAT Mark-I and its launch by PSLV of ISRO. The Preliminary design of the NIUSAT Mark-I has been presented to ISRO and approved. Infrastructure, assembly, integration and check out facilities, including Clean room, Research Laboratories and Ground station with communication links from and to orbiting Satellite are established. Collaboration with Indian Industries for technology development, facility establishment and production during commercialization are in place. MoUs have been signed with national and international agencies, including one for payloads with SAC- ISRO, for guidance and technical assistance in the development and application programs at national and global levels.
- Two faculty namely Dr. R. Ganesan, Professor of EIE and Dr. Felix Joseph, Associate Professor of EEE were deputed for a two month Industrial collaborative project in Data Pattern Private Limited, Chennai in connection with nano satellite project.
- University allows in plant training and industrial visits for students.

- Research candidates of other Universities are also allowed to utilize the research facility available in various departments.
- Faculty members are sent to other reputed Universities and Institutes of higher learning for attending Refresher courses and Workshops.
- Industry experts visit the campus to deliver invited talks during the conduct of seminars/workshops and conferences collaboratively. The University students have benefited from these activities by understanding and learning new cutting edge technologies and trend in the market.

3.7.2 Mention specific examples of how these linkages promote Curriculum development

Based on the industrial (IBM and Infosys) expectation and to enhance knowledge on recent technology, the University modified the syllabi in the curriculum; there is a provision of selecting industry based curriculum by the students. Some of the Industrial electives in the curriculum are given below:-

S.No.	Industry Name	Electives & Subject Code
1	IBM	• Building Enterprise Applications (IT2A8) • Business Intelligence and its Application (CS2B8) • Introduction to mainframes (CS2B7)
2	Infosys	• Mobile Application Development (SE8B2) • Mobile Networking (CS217)

Internship, On-the-Job

Students are doing Internship and on-the job training in various Industries at regular intervals to learn the processes adopted in the industries, their nature of work and future scope for the development. The details are given below during last four years:-

Department	No. of Students participated from 2010 -11 to 2014-15	Name of the organizations
Mechanical Engg.	67	Cochin Port Trust; G.M.Motors; Ashok Leyland,Chennai; KMML,Chavara; CPCL, Chennai; SE Railway,Karagpur; KSRTC,TVM; BPCL,Cochin; FACT,Cochin; Hwashin,Chennai; KMML ,Chavara; HAL,Bangalore NTPC; Kayamkulam; Cochin

		Shippard; FACT,Cochin; KSRTC,Kozhikode; UNIQ Technologies, Chennai; GB X Ray,Trichi; IRE,Chavara; HMT,Kalamassery; NPCIL, Kudankulam
Information Technology	1	Human Resource Development Division, Vikram Sarabhai Space Centre, Thiruvananthapuram.
Marine Engg.	100	TNMA , Turicorin
Aeronautical Engg.	40	Air India,TVM; Air India Express,TVM; Air India,TVM; HAL,Bangalore; Air India Express,TVM; HAL,Bangalore; VSSC,TVM; Taneja Aerospace & Aviation Limited,Hosur; Air India Express,TVM; HAL,Bangalore; Centre for research education and training in engineering, Nagercoil; United Nations,China; Blue Dart Aviation Limited, Chennai; VSSC,TVM
ECE	66	Air India Express Engineering,Trivandrum; Airport Authority Of India, Trivandrum All India Radio Nagercoil; All India Radio Tirunelveli; BSNL Kanpur; BSNL Nagercoil BSNL Trivandrum; Calicut International Airport Keltron,Trivandrum
EEE	84	Ashok Leyland;BSNL;HLL lifecare;IRE Limited; KEAE;Keltron;KSEB;NTPC;Renaissance;TANGED CO;TEKN;Titan;TTPS;Windtech
EIE	31	BATL; BPCL; KELTRON, KMML, NTPCL, RENAISSANCE, TTPL
Biomedical Engg.	22	Anathapuri Hospital, Trivandrum; Govt medical College, Trivandrum; KIMS Hospital, Trivandrum; Lakeshore Hospital, Eranakulam; Lekshmi Hospital, Eranakulam; MIMS Hospital, Bangalore; NIMS Hospital, Kerala;Vallayathu Hospital, Kollam
Management Studiess	354	Afthara; Axiam Academy, Chennai; FACE Academy, Bangalore; HDFC, Trivandrum;Genesis, Chennai; IDBI Life, Coimbatore; Laxmi Vilas Bank, Bangalore; MED Life, Nagercoil; Win College, Mumbai etc
Nano Tech	2	Department of Photophysics, BhabaAtomic Research Centre, Mumbai, India

The student admitted in the MBA Programme should complete three months internship training. At the end of second semester and third semester, the student undergone one month and two month internship programme respectively in various reputed companies.

Faculty exchange and development

The faculty members are encouraged and motivated to attend various development programs, collaboratively with the help of other Agencies and Industries like Infosys Campus Connect, IBM, TCS etc. Faculty members of the University are permitted to attend professional development programmes like Refresher /Orientation Course. Many of the faculty members completed Refresher courses in reputed institutions.

Faculty visited overseas University under MoU

Name of the Faculty member	Time Period	Name of the University
Dr. I. Jacob Ragland, Professor of EEE and Dr. Balamurugan, Associate Professor	15-07-2012 to 22-07-2012	University Teknologi Mara, Malaysia

Publication

A few faculty members of the University have published research articles in collaboration with other Universities/Institutes.

Extension

- Faculty is frequently called upon to deliver popular lectures in various Schools, Colleges, and Universities. They also delivered Radio talks. Two faculty members from the Department of Physics have delivered 3 talks in All India Radio.
- University popularized science among school students though Science Camps (YSSAP- Young Student Scientist Adoption Programme) from 2000 to 2011. These science camps were supported by Department of Science and Technology, Govt of India. The main objective of this programme is to make school students inculcate in profound scientific knowledge at the tender age so that they can become fruitful and productive citizens later. Out of more than 2000 students, around 500 students will be selected through separate entrance examinations conducted by NICHE. Top 100 students were selected for one week in-house training programme. For the top 500 students, sum of Rs. 500 with meritorious certificate (Young Student Scientist) will be provided during the valedictory function of YSSAP.

Student placement

Organizations are directly and indirectly supporting the placement of the students.

Any other (please specify)

Nil

3.7.3 Has the University signed any MoUs with institutions of national/ international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

The numbers of MoUs are signed with foreign university/industries and the student exchange programme and research activity. MoUs entered into by NICHE with Universities and Industries are listed below.

MoU with Institutions

Sl.No.	Name of the University	Date of Signing the U
1.	Liverpool John Moores University, United Kingdom	March 11, 2011
2.	Providence University, Taiwan	March 24, 2011
3.	University Teknologi Mara, Malaysia	December 8, 2011
4.	University of Medicine and Dentistry of New Jersey, U.S.A	January 28, 2012
5.	Doctors Academy, U.K	January 28, 2012
6.	Indo-European Centre, Vistula University, Warsaw, Poland	January 28, 2012

MoU with Industries

Sl.No.	Name of the Organization	Date of Signing the MoU
1.	Nihongo Sochi, Pune	September 28, 2010
2.	IBM India (P) Ltd., Bangalore	December 16, 2010
3.	Yokogawa India Limited, Bangalore	February 21, 2011
4.	Infosys Technologies Limited, Bangalore	March 10, 2011
5.	AISER Workforce Development Company, Chennai	January 11, 2012
6.	Bulkhead Aerodesign, Cochin	November 8, 2012
7.	CANEUS International, Canada	December 09, 2013

- University has been coordinating the bilateral research and academic programmes with overseas Institutions/Universities through MoUs. Exchanging Faculty/Students, Teaching Foreign Language and Organizing International Conferences/Workshop are conducting effectively through these linkages. For example, the linkage with Nihongo Sochi, Pune is used for teaching Japanese Language to University students from 2010 to till date. Providence University, Taiwan is combinely doing research and publishing the article in reputed journals. Industrial experts from IBM India (P) Ltd., Bangalore; Yokogawa India Limited, Bangalore; AISER Workforce Development Company, Chennai; Bulkhead Aerodesign, Cochin etc a training the students for the latest Industrial needs.
- Eight B.E final year students from Electronics and Communication Engineering, Mechanical Engineering, Electronics and Instrumentation Engineering, Electrical and Electronics Engineering of NICHE are carried out their final semester project in MARA University, Malaysia from 06-01-2014 to 09-07-2014.

Simultaneously, seven B.E students from MARA University carried out their project work in NICHE from 06-01-2014 to 09-07-2014.

The list of programme conducted by University/ Industries under MoU

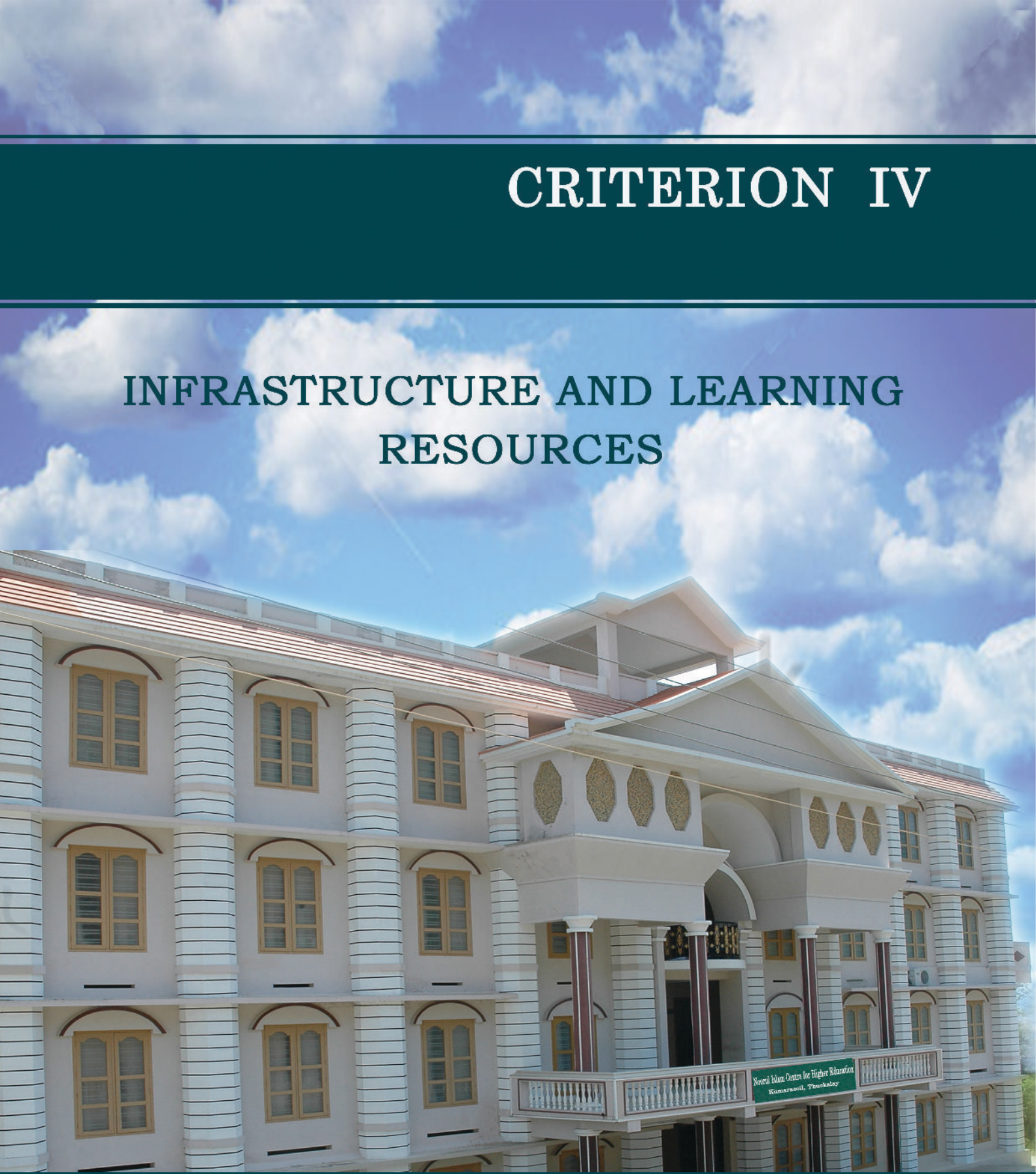
S.No	Programme Details	Date	Industries
1.	Training Programme for Students on "PLC/SCADA"	2nd Mar 2011 to 6th Mar 2011	Yokogawa India Ltd.
2.	Training Programme for Students on "DCS Fundamentals and Engineering"	15th Feb 2012 to 19th Feb 2012	Yokogawa India Ltd.
3.	DB2	21st July 2010 to 27th July 2010	IBM
4.	DB2	18th Aug 2011 to 20th Aug 2011	IBM
5.	DB2	22nd July 2013 to 26th July 13	IBM
6.	IBM Rapid Application Development Course	01st April 2011to 4th April 2011	IBM
7.	Infosys Campus Program	12th July 2013	Infosys
8.	Mobile Application Development	12th July 2013	Infosys

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

Nil

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1.1 How does the University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The infrastructure requirements are planned taking into account the requirements prescribed by the statutory bodies for various courses, the location, requirements of staff and students, advancements in different fields and the vision and mission of the university. Infrastructure of the university include

SEPARATE BLOCK FOR EACH DEPARTMENT
A separate spacious block for each with minimum 3 floors to house the class rooms, Laboratories, Seminar Hall, Staff Room, Department Library etc.

ICT ENABLED LEARNING
Wi-Fi connectivity with 1 GBPS bandwidth, smart class rooms, Digital Knowledge Centre, NKN connectivity, Data Centre and Video Conferencing facility.

LABORATORIES
Well-equipped labs with required facilities

LIBRARY
A spacious Central Library apart from Department libraries

ADMINISTRATIVE BLOCK AND EXAMINATION WING
A separate university block, an Administrative Block and 16 Halls exclusively earmarked for exam related works.

HEALTH CARE CENTRE
Health Centre with one male and female doctors and supported by staff nurses and attendants with five bed indoor patient facility

AUDITORIUM
A Hill-top Auditorium, two open air theatres, one A.C Conference Hall and 7 mini A.C. Conference Halls.

TRANSPORTATION
A fleet of 31 buses and 1 mini bus cover transportation across all the areas in and around the university to cater the transport needs of students and staff.

POWER AND BACK UP
A transformer with 500 KVA high tension supply, 6 Generators with 160 KVA, 125 KVA, 110 KVA, two 63 KVA and 25 KVA , 12 watt 8 Solar light units in the streets and a 10 KW Solar Energy System in the marine hostel.

SHIP IN CAMPUS AND HANGARS

A Ship in Campus exclusively for the Department of Marine Engineering and three Hangars for stationing Aircrafts to provide practical training to Aeronautical and Aerospace students.

SATELLITE CENTRE

A Satellite Centre with Ground Station and Clean Room facility.

BANK

Extension Counter of TMB and round the clock ATM facility.

HOSTELS

University has eight hostels for Boys and Girls to accommodate around 1700 students.

STAFF QUARTERS

32 Staff Quarters to accommodate the families of teaching and non-teaching staff.

UNIVERSITY GUEST HOUSE– for visiting faculty, visitors, parents and guest

FIRE-SAFETY- fire safety equipments are installed in every building of the campus

As the campus remains vibrant always optimal utilization of the infrastructure is ensured.

4.1.2 Does the University have a policy for the creation and enhancementof infrastructure in order to promote a good teaching-learning environment? If yes, mention a few incentives.

Yes. The university dynamically upgrades its infrastructure facilities with the changing scenario on the academic side. Every department in the university has been provided with a smart class room which includes Wi-Fi connectivity, LCD projector and camera. For the improvement of the communication skills of the students, Language Lab has been provided. Digital knowledge centre is being strengthened gradually.

4.1.3 How does the University create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

In order to create a conducive environment for research, the faculty members are provided with laptops with Wi-Fi connectivity of 1 GBPS internet bandwidth. There is an in-built Digital Library in our university. The faculty is given access to utilize the resource materials

and e-databases. The University encourages the faculty members to submit their Research Projects to funding agencies and gives cash incentives to the faculty for their meritorious research publications.

4.1.4 Has the University provided all the departments with facilities like office room, common room and separate rooms for women students and staff?

Yes .The University has provided all the departments with facilities like office room and common room. Separate rest rooms for women students and staff are also provided with adequate furniture, water supply and electricity. The University is conscious about the need for common room and rest room for the students and faculty and the same has been provided at different locations.

4.1.5 How does the University ensure that the infrastructure facilities are disabled friendly?

Ramp facility is available in all the buildings in the University with the space for parking vehicles of the disabled nearby. Classes and examinations for those students are held at ground floors.

4.1.6 How does the University cater to the residential students? Give details of:
Capacity of the hostels and occupancy (to be given separately for men and women)

Maintaining a respectable and caring environment in the hostels and also providing hygienic food at reasonable rates to the residential students always remain the primary concern of the University. Men and women are accommodated separate in hostels. They are also furnished with all the basic amenities. Additional facilities like Telephones, Newspapers/Magazines, Reading Rooms, Visitors Room, Common Prayer Halls, Television and Computer Room are also provided in the hostels.

Sl. No.	Hostel	No. of. Blocks	Block Name	Number of rooms	Additional Facilities
1	Girls Hostel	4	A	52	Television, Reading Room, Computer Room, Office Room, Recreation/Prayer Hall, Yoga Centres, Gymnasium, Mess Facility, Canteen, Telephones, Wi-Fi Connectivity
			B	50	
			C	46	
			D	21	
2	Boys	8	A	43	Television,

	Hostel		B	46	Reading Room, Office Room Computer Room, Recreation/Prayer Hall, Yoga Centres, Mess Facility, Canteen, Telephones, Indoor Games, Gym, Wi-Fi Connectivity
			S	14	
			C	48	
			D	34	
			E	34	
			F	61	
			G	61	

Recreational facilities in hostels like gymnasium, yoga centre etc. Students are provided with a modern gym to maintain the fitness and health of their mind and body. A male and a female yoga masters have been appointed for the Boys and Girls Hostels respectively. The Wardens and the other officials ensure the availability of all the required facilities in the hostels. 24 hour Broadband /Wi-Fi connectivity of 1 GBPS is provided in the hostels for the benefit of students.

4.1.7 Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?

Yes. The University has a Health Center working 24 hours a day. The details are given below:

Medical Staff	Facilities	Timing (Hours)
Dr.S.Enoch, M.B.B.S.	Oxygen, Nebulizer, Beds, Laboratory and Ambulance	24x7
Dr.N.Swarnam, M.B.B.S,D.G.O.		
T.Shyamala, Staff Nurse		
S.Ambika, Lab Technician		
T.Rani Kasthuri Bai and K.Sreekala-Staff Nurse		

4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

The University has a multi-purpose playground. Separate volleyball courts, basket ball and badminton courts for boys and girls have been provided. The students of the University are given special coaching and are encouraged to participate in the Inter-Intra university sports tournaments held at various places. Students also exhibit their talents in cultural events/activities during the cultural day and university day and thus they get platforms to improve their skills in cultural activities. The Auditorium is also used for screening of short films of social relevance for the students.

The details of the sports facilities are given below:

Sl. No.	Sports Activities	Facilities		
		Athletics	**Material/ Equipment**	**Expertise**
1	Athletics (M & W)	400M Track in University Ground	All Athletic equipment is provided to students to facilitate training and competition in all track/ jump/ throw events	Well-qualified and trained coaches/ trainers are engaged to train players throughout the year.
2	Badminton (M& W)	6 Outdoor Courts in University Ground (1 Court in Main Administrative Building, 2 Courts in Marine Hostel, 3 Courts in Boys Hostel)	Sufficient no. of graphite racquets/ cocks/nets are made available	Well-qualified and trained coaches/ trainers are engaged to train players during the seasons.
3	Basket Ball (M &W)	University Ground (1 Cement Court)	Sufficient no. of Molded Synthetic balls	Well-qualified and trained ADPE/ coaches/ trainers to train players throughout the year.
4	Chess (M&W)	University Sports Complex	Sufficient no. of chess boards and coins are made available.	Well-qualified and trained coaches/ trainers to train players during the season.
5	Cricket (M&W)	University Ground (1 Ground)	Sufficient no. of Bats/Balls/Batting and Wicket keeping Leg guards/batting and wicket keeping	Well-qualified and trained coaches/ trainers to train players.

			gloves/stumps/mats etc. are made available.	
6	Football (M&W)	University Ground (1 Ground)	Sufficient no. of moulded Synthetic balls/training aides are made available.	Well-qualified and trained coaches/ trainers to train players.
7	Kabaddi (M&W)	University Ground (2 Courts)	Uniforms have been supplied.	Well-qualified and trained ADPE/ coaches/ trainers to train players.
8	Table Tennis (M& W)	1 in Ladies Hostel and 1 in Marine Hostel	Standard Tables/ Balls/ Racquets and uniforms are made available.	Well-qualified and trained coaches/ trainers to train players.
9	Volleyball	University Ground (3 Courts),Marine Ground (1 Court)	Moulded Synthetic balls and Uniforms are made available.	Well-qualified and trained coaches/ trainers to train players.
10	Best Physique (M) & Power Lifting (M&W)	University Sports Gym 1 in Boys Hostels and 1 in Ladies Hostels	International standard weight apparatus and uniforms are made available.	Well-qualified and trained coaches/ trainers to train players.
11	Weight Lifting (M&W)	University sports Complex	International standard weight apparatus and uniforms are made available.	Well-qualified and trained coaches/ trainers to train players
12	Yoga (M&W)	University Indoor 1 in Girls Hostel and 1 in Boys Hostel	Uniforms are made available.	Yoga Masters provide training.

4.2 LIBRARY AS A LEARNING RESOURCE

4.2.1. Does the Library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have

been taken by the committee to render the library student/user friendly?

Yes. The Library has an Advisory Committee with 11 members. It includes eight Faculty members and three students.

Director, Grievance Cell	-	Chairman
Librarian	-	Secretary
Professors (2 Nos.)	-	Members
Assistant Professors (2 Nos.)	-	Members
Deputy Librarian	-	Member
Assistant Librarian	-	Member
Students(3 Nos.)	-	Member

4.2.2 Provide details of the following:

Total area of the Library (in Sq.Mts) : 551.59 ×3 floor = 1654.77(Sq.Mts)

Total Seating Capacity : 300

Working hours (on working days, on holidays, before examination, during examination, during vacation) :

Working Days : 8 a.m. to 6

Holidays : 10 a.m. to 5 p.m.

Layout of the Library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) : Yes, Three Floors

Ground Floor	Collection of Engineering Books, Collection of General Books, Book Bank
First Floor	Reference Section, Reference Books (Reference Books, Back Volumes, Question papers, Theses etc.), Reading Area for Reference Materials, Periodical Display Section, Technical Section.
Second Floor	IT Zone for accessing E-Resources, Reading Area for News Paper, Washing Room. Sign Boards and Navigation tools are displayed
Fire Alarm	Fire extinguishers are installed in the ground floor and first floor.

Access to differently-abled : Ramp facilities are available for physically disabled users and library staff support such persons in their search for books, journals, specific documents and other materials.

4.2.3 Give details of the Library holdings

a) Print (books, back volumes and theses)

Books	:	71338
Back Volumes	:	2203
Theses	:	35

b) Average number of Books added during the last three years : 6754

c) Non Print (Microfiche ,AV) : 62

d) Electronic (e-books-journals) : e-books : 250
e-journals : 784

e) Special collections (e.g. textbooks, reference books, standards, patents)

Text Books	:	25000
Reference Books	:	1859
Standards	:	Nil
Patents (Lierature/manual)		02 :

4.2.4 What tools does the library deploy to provide access to the collection?

OPAC	:Yes
Electronic Resource Management Package for e-journals	: Nil
Federated searching tools to search articles in multiple databases	: Yes
Library Website	: Yes
In-House/remote access to e-Publications	: Digital Library of NIU

4.2.5. To what extent is ICT deployed in the library? Give details with regard to

Library automation	: Yes (Auto Lib Version 5.1)
Total Number of Computers for Public Access	: 86
Total Number of Printers for Public Access	: 1
Internet Bandwidth Speed	: 1 GB (BSNL)
Institutional Repository	: Yes (NICHE Digital Library)
Content Management System for e-learning	: No
Participation in resources sharing	: Yes (DELNET)

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4.2.6. Provide details (per month) with regard to

Average number of walk-ins	:	3500
Average number of books issued / returned	:	2709
Ratio of library books to students enrolled	:	28
Average number of books added during the last four years	:	22854
Average number of login to OPAC	:	590

Average number of login to e-resources	:	2200
Average number of e-resources downloaded / printed	:	1090
Number of IT (Information Technology) Literacy trainings organized	:	02

4.2.7. Give details of specialized services provided by the library with regard to

Manuscripts: Not Available in the Library
Reference: University Library providing reference service to the library users. The library has a Separate Section for reference materials including Reference Books, Periodicals, Back Volumes, Reports, Theses and Question Papers.
Reprography: Two Photo Copiers are available in the library for the use of Students and staff.
Inter –Library Loan Service: Membership with DELNET, Delhi and IIT, Madras for Inter Library Loan Services.
Information Deployment and Notification: Yes, The Library displays notices and Circulars for the New Information development.
OPAC: Online Public Access Catalog is available in the Library to search the library resources.
Internet Access: Wi-Fi-Network Connect is available to students and staffs, Library users can access e-resources through the Digital Knowledge Centre of the university.
Downloads: Download facilities are provided for the E-Journals, E-Books, and Information Sources.
Printouts: Two Printers are available for the Library users. Users can avail print facility on Payment basis.
In-house/remote access to e-resources: E-resources can be accessed through the Digital Library.
Assistance in Searching Databases: Digital Knowledge Centre staff offer their support in the search for e- Resources subscribed and listed on the notice board.
INFLIBNET/IUC facilities: Membership with INFLIBNET

4.2.8. Provide details of the annual budget and the amount spent for purchasing new books and journals.

Sl. No	Head	Budget Rs.	Spent	No. of Books/Journals Added
1	Books	7 Lakhs	5,89,972.00	2016
2	Print Journals	3 Lakhs	2,20,268.00	10 Journals
3	E-Journals	18 Lakhs	16,58,745.00	784

4.2.9. What initiative has the University taken to make the library a 'happening place' on campus?

A very good infrastructure, with a peaceful environment, surrounded by natural greenery and eco friendly atmosphere brings users spontaneously to the library to make use of its resources.

4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analyzed and used for the improvement of the library services?

Printed questionnaires are used to collect the feed back from the students every year. They are analyzed and details are placed before the Library Advisory Committee. Valid and useful suggestions given by the students are implemented.

4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

Sl. No	Year	Development
1	2009-'10	New Library Building Opened
2	2010-'11	Digital Knowledge Center Opened Library Automation for all library house keeping activation
3	2011-'12	Printing facilities introduced/photocopier-2 Bar code facilities operated
4	2012-'13	42 Systems added to digital knowledge center
5	2013-'14	Article search service introduced
6	2014-'15	Separate OPAC service installed

4.3. IT INFRASTRUCTURE

4.3.1. Does the University have a comprehensive IT policy with regard to

IT Service Management:
University focuses on the quality of IT Service delivery to students and staff and provides service excellence on campus with effective and fast resolution of incidents and requests; relevant and useful reporting; or being the source for answers through knowledge base.

More services like improved IT incident tracking, IT problem management and service request resolution are also available. Ability to extend the tools to other IT units on campus is enabled. Improved reporting capability for existing metrics and new ones are also included.

Information Security:
The university uses DELLSONICWALL E5500 Firewall and content filter software and licensed antivirus software for securing incoming and outgoing network data. Highly secured Linux servers and DHCP access controls, every time monitoring system indicating the fault users and others are used for securing the data from unauthorized users and hackers.

Network Security:
The networks use DHCP with username and password access control systems with MAC authentication, well-configured manageable switches and Wi-Fi routers for controlling the incoming and outgoing user access. User alert software system is installed for avoiding unauthorized users. Password lock protection and time allocation are provided as network security systems which automatically lock the wrong users. The University has Firewall, Antivirus and Content filtering software. It provides Bandwidth management, NAT, Port forwarding, Policy routing, DHCP server and many other features. The trunk concept is used as an interface group for a policy routing which can add interfaces and define load balancing mechanisms in one trunk.

Risk Management:
The University has real time monitoring system for indicating the fault users and locked users. The well-experienced and qualified engineers with every time monitoring system help to find immediate solution for users. The dual processor backup servers are used to switch to main server from that of backup server when any one server fails to operate. The university also has redundant power supply to power the servers. Here also if one power system fails, the other will run the server. The high end switches avoid collusions and direct the correct path to the users. The network structures are more helpful and easy to find the problems, thus avoiding high risks, by immediately finding solutions. Risk management in the NKN (National Knowledge Network) internet connectivity is taken care of by the ring route laid by BSNL. The fibre has been drawn from the exchanges in two different routes from the ring and due to this, failure of link is avoided.

Software Asset Management:
Coordinated by a team of members, the university looks after the maintenance of the IT Service at the primary level. A more comprehensive maintenance of IT Service is provided by Annual Maintenance Contract. Problems affecting IT products under warranty are referred to the concerned manufacturing companies for redressal.

Open Source Resources:

Encouraging the use of Open Source Software like NPTL Contents E-Learning, Office Automation, Library AUTOLIB Software, OPAC Book Search Software, etc. Student or staff can access the Digital Library from wherever they are. Free access is provided for web based lessons.

Green Computing:
The university uses low radiation Wi-Fi devices with remote base station configuration which reduces switches, cables. One HCL BLADE SERVER with more number of blades (Blade Server) is involved in reducing more servers. The network links are Fiber Optic Cable with high speed internet connection (1GBPS), Solar Power panels connect the Wi-Fi devices and other computers in a fully air-conditioned server room. Maximum numbers of students are using laptops and low power computers with LED monitors. These measures are fully support green environment and reduce more cost and power consumption. The office automation software and library automation software reduce the paper work and thus we are saving trees and protecting the environment.

4.3.2. Give details of the University's computing facilities i.e. hardware and software.

Number of systems with individual configurations:

Sl. No	Equipment/ instrument/ Hardware/ Computer/ Software Purchased	Manufacturer Name	Configuration	Qty
1.	Desktop Computer	Lenovo	Lenovo C2D/ 2.8Ghz/250Gb HDD/2GB RAM/ VD/18.5 LCD / 19" LCD	130
2.	Desktop Computer	Intel	Intel C2D/ 2.8Ghz/250Gb HDD/2GB RAM/ DVD/19" LCD	88
3.	Desktop Computer	Ellipse	Intel C2D/2.8/2GB/ 250GB/19" LCD	83
4.	Desktop Computer	Lenovo	Lenovo Desktop PC(CRD/2.8/ 2GB/250GB/18.5LCD/DVD)	130
5.	Desktop Computer	Intel	Intel C2D/ 2.9Ghz/250Gb HDD/4GB RAM/ DVD/19" LCD	11
6.	Desktop Computer	Intel	Intel i3/ 3.06Ghz/500Gb HDD/2GB RAM / DVDRW/ 19" LCD	3

7.	Desktop Computer	Intel	Intel D /3.0Ghz /250Gb HDD/2GB RAM /15” LCD	2
8.	Desktop Computer	Ellipse	Intel C2D/2.93/4GB/500GB/19" LCD	1
9.	Desktop Computer	HCL Infosys	HCL IGL 2701, 1701	9
10.	Desktop Computer	Ellipse	Intel i3/3.06/4GB 19" CD/500GB	10
11.	Desktop Computer	Ellipse	Intel i3/3.06/2GB 19" CD/500GB	2
12.	Desktop Computer	Ellipse	Intel DC/3.00/2GB 15.6"/250GB	1
13.	Desktop Computer	Dell	Dell VOSTRO DT /C2D/ 2GB / 500Gb/ 18.5” TFT	10
14.	Desktop Computer	Intel	Intel DC/3.00/2GB 15.6"/250GB	25
15.	Desktop Computer	Intel	Intel DC/2.66/2GB /15.6/ 500GB	14
16.	Desktop Computer	Intel	Intel IV / DC 2.9Ghz/ 2GB ram/500GB hdd/ 15”TFT	428
17.	Desktop Computer	Acer	Acer/i3-3220/ 2GB ram/500GB hdd/ 18.5”TFT	15
18.	Desktop Computer	Acer	Veriton/DC/2GB/ 500 GB/18.5”LCD	1
19.	Desktop Computer	Acer	Acer Desktop i3/2GB/500GB/18.5 LCD	12
20.	Desktop Computer	Intel	Intel DC/2.90/2GB 61BF/500GB/DVD/ 15.6LCD	13
21.	Desktop Computer	Acer	Acer Veritton DC/2GB/500GB/18.5 LCD	6
22.	Desktop Computer	Intel	Intel i7/ 8GBx2 / 1TBx2/ DVDRW/ 21.5” LCD	1
23.	Desktop Computer	Intel	PDC/2GB/500GB DVDRW/ 18.5”LCD	3
24.	Desktop Computer	Lenovo	H50-PDC/2GB/ 500GB/DVDRW/ 18.5” LCD	6
25.	Desktop Computer	Intel	Intel i7-4770/ 16Gb RAM/ 2TB HDD 21.5"LED	1

26.	Desktop Computer	Intel	Intel DC/ 3.00/ 2GB H81/ 500GB/DVD/ 18.5LCD	3
Total: 1008 computers				

Computer-student ratio is 1:4

Dedicated computing facilities

Full-fledged separate computer centres that have more than 1008 Pentium based computers including the latest Dual-Core, Core 2 Duo, Core i3, Core i5 systems and IBM Intel Workstations. Servers like IBM AS 400, IBM RS 6000, Sun Enterprise Ultra 10, Wipro Net Power 5210, HCL Infinity, IBM and Dell are available in the campus. Application server with NPTEL with 500 client computers is available in the computing facility of the university.

LAN facility

A strong network backbone of 1G and 5G (for major distribution centres) as a structured deployment with 20 distribution points covering the entire campus area with wired and wireless components.

Proprietary software

Computing facility of the university comprises of licensed software such as Ansys 10.1, MAT Lab, OrCAD PCB Suite, CREO 2.0, Windows Server 2012 R2 Standard, Windows Server, 2012 CAL, MS Office 2013 Std, Windows 8.1 Professional Upgrd, Visual Studio Professional 2013, CyberCheck Suite Ver. 4, Mobile Check V 1.0, WinLiFT V1.0, True Imager V 2.0, SIM Xtractor V1.0, NetForce Suite v1.0 and CDR Analyser V1.0

Number of nodes/ computers with internet facility

1008 (with wired or wireless connectivity)

4.3.3. What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

University upgrades or deploys IT infrastructure and associated facilities regularly.

Due to technology advancement, the university has been able to weed out the obsolete systems and replace the same with high end dual core hardware. Due to natural wear and tear, IT

infrastructure needs to be replaced periodically to prevent sudden service interruptions. Extension of IT infrastructure due to the increase in demand for IT services also becomes necessary. The University intends to deploy and upgrade the IT infrastructure and associated facilities as per the academic requirements of the students.

In all the mentioned situations of IT infrastructure deployment and upgrading, the IT service provider (departments or central facilities) will submit a proposal to the Vice-Chancellor's Office. The proposal will be approved based on the scrutiny by the Vice-Chancellor's office. For the approved proposals, purchase and deployment will be carried out by the Computer Purchase Committee and the concerned department.

4.3.4. Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.

The university has signed an MOU with NPTEL (National Programme on Technology Enhanced Learning) and hence the detailed NPTEL course materials can be accessed through the university web servers. Access to online teaching and learning resources are provided to staff and students with high speed Wi-Fi access. Webinar provides Web Content audio-video lecture programmes to staff and students. They can access e-journals and e-books and resources from internet. Multi-conferencing facilitates video conferencing between several departments, classrooms and seminar halls. By means of Local Area Network, in-door video conferencing has been setup within the campus. Moreover, multi-conferencing has also been setup through ISDN and VSAT for enabling video conferencing between remote universities and other organizations. Students from various departments take part in the Anna University EDUSAT educational programmes.

4.3.5. How does the University address issues such as authenticity and copyright with regard to online resources that lie outside the University?

The university uses the world's best Anti-plagiarism software to check student and faculty submissions of papers, publications, dissertations and research work to ensure that there is no plagiarized content. Attempts are made to periodically check such issues and appropriate software has been installed in campus wide network. Further, the research guides will have an overall observation on the materials used for presentations on research done by the students to make sure copyright is not infringed upon. INFLIBNET facility is

provided through which all research scholars can upload their thesis content and it can be accessed by anyone outside the university.

4.3.6. What are the new technologies deployed by the University in enhancing student learning and evaluation during the last four years and how do they meet new/future challenges?

Providing NPTEL is to make high quality learning materials available to students by exploiting the advances in information and communication technology. Creating web-based (e-learning) materials and making them available in the form of portal/DVDs that would be tailored to meet the needs of engineering students are also done. Student centric assignment preparation makes individualized learning possible. Smart class rooms with OHP, LCD Projectors and laptops enhance the student learning and evaluation.

4.3.7. What are the IT facilities available to individual teachers for effective teaching and quality research?

All the staff have access to Personal Computer / Laptop and internet access in the Department in order to promote research and effective teaching. Staff are provided with training on computer application. The staff have access to internet facilities at all times. Further, subscription to many e-journals and on line resources by the university helps teachers to know the latest research undertaken in their field of research and helps in pursuing quality research. The IT facilities available are 24x7 internet access, smart classrooms, personal computing devices with legal software, access to library & other research resources, self-services to enhance productivity and tools to check plagiarism.

4.3.8. Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

ICT-enabled classroom is always available for teaching in the department, apart from seminar halls, conference halls and auditoriums which can be used for large gatherings and to accommodate more student strength. Interactive boards in smart class rooms enable teachers to project downloaded content straight to students. Faculty members use PPT, LCD projector and pointer during lectures. This saves the time involved in drawing the figures on the blackboard. This also provides sufficient time for explanations and discussions. Whiteboard and marker are also used to answer the questions from students. Facilities such as LCD projectors, OH Projectors, Language Lab, Computer Lab, Internet, Television

etc. are available for enhancing the quality of teaching and learning.

4.3.9. How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the university for such initiatives?

The faculty is encouraged to prepare electronic presentations on their subjects and deliver them through Power Point or equivalent Presentation Graphics tool. Faculties are also enabled with simulators and other lab equipment to enable them to do real life simulations. Staff members are given training and encouraged to attend computer related workshops. Teaching notes, Power Point Presentations, audio video materials in soft copies are also being provided to the students. Faculty members are provided with Desktop and Laptop computers along with Internet to aid them in preparation of the course content, lectures and in updating their knowledge. They are given training in the beginning of academic year to help them in preparing e-learning materials and to use online resources.

4.3.10. How are the computers and their accessories maintained?

Qualified and well-trained computer technicians are available in the University for the overall maintenance of computer and computer related equipment and components. Though AMC was given the job of maintaining the major equipment in the previous years, now the entire set up is maintained by the in-house technical person as the AMC cost is very high. The wireless access points and UPS are maintained by proper preventive mechanisms. The fault of the computers located at staff cabins, Rooms of HODs, officials and officers have to be intimated to the Internet Lab of the university and the technicians will be attending on the problem immediately. The fault arising in the laboratories has to be reported in the official format available and will be rectified based on the priority of the usage. Minor problems will be rectified immediately and certain percentage of replacements will also be done immediately. Major failures will be rectified out with the support of external experts if necessary. The downtime for the computers, servers and networking components are very less as the problems are rectified immediately in most of the cases.

4.3.11. Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes.

National Knowledge Network (NKN) connectivity using 1 GBPS with high speed internet was installed in the campus by BSNL under the National Mission on Education (NME) programme. With the National Knowledge Network (NKN) facility, the services that are provided are: Access to high performance computer such as GARUDA, Access to Global Research and Development (R&D) Network such as "GLORIDA" (INDO-US initiative, TIER 3 (INDO-EUROPEAN initiative) etc. Platform to internet with other Research Educational Institutes: PAN India and across the Globe, Access to high speed Internet and other commutative services (DNS Collocation, Security Links, Messaging Gateways, Authentication etc.). Data Centre has been set up in the university with Xeon Quad core blade servers. CFD Lab with HPC Linux clustering (40 Node Clustering) with Xeon Quad Core Servers has been set up. Campus Automation has been done with Microsoft Navigate IT and can be accessed using intranet and internet facility. Online Test facility is provided to the students to get training for career placement programmes. 'Earn while you Learn' Programme for students of NIU has been accepted by HCL and the Department of IT has been identified to carry out the project under this programme. Students of NIU will be working in the free hours (after regular class hours) and will be paid for their work. IBM has recognized the University as a "Centre of Excellence".

4.3.12. Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes. The University policy allows access to all education enhancing e-resources which are in public domain as per the IT polices existing in the university. Students are registered at Internet Lab of the University for Internet services on admission. Each faculty member is also registered at the Internet Lab. Students become aware very soon of how to avail web resources, Wikipedia, Google search, e-mail communication, dictionary and other education enhancing resources on joining the university. The resources of Wikipedia dictionary, e-books, video tutorials and PPTs are used extensively by the students and faculty. Access is provided to websites, e-books, e-tutorials, PPTs, course material, webinars, virtual class room lectures, e-mail, video conferencing and other services. Web-access is also available for examination results, grade sheets etc.. Intranet and Internet links to video lectures, seminar proceedings, and Digital Library are also available.

4.3.13. Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.

The university allocates money/fund in the Annual Budget for update, deployment and maintenance of computers as given below:

Item	2011-2012	2012-2013	2013-2014	2014-2015
Purchase of Computers (Rs.)	50	50	50	60
Computer Repair and Maintenance (Rs.)	Nil	7	7	6
*Figures are in lakhs				

4.3.14. What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?

The access to IT resources made for students expose them to outside information and environment. Field exposure through industrial visits to various industries, through educational tours provides students practical knowledge on the latest technologies developed and the latest avenues for their career development. Merging of Industrial tie up programmes in curriculum helps students in getting hands on practical knowledge in addition to knowledge gained through university classroom lectures.

4.4 Maintenance of Campus Facilities

4.4.1. Does the university have an estate office/ designated office for overseeing the maintenance of buildings, classrooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes.

The University has an Estate Office, headed by an Estate Officer. The Estate Officer is supported by supervisors for different functions/works and plumbers, electricians and other skilled workers. who are in regular positions in adequate numbers. The Estate Office is responsible for the construction and the maintenance of classrooms, buildings, laboratories, water supply and power supply system. If any repair work is required, the Estate Office promptly attends on the work. The laboratories in each department are maintained by the

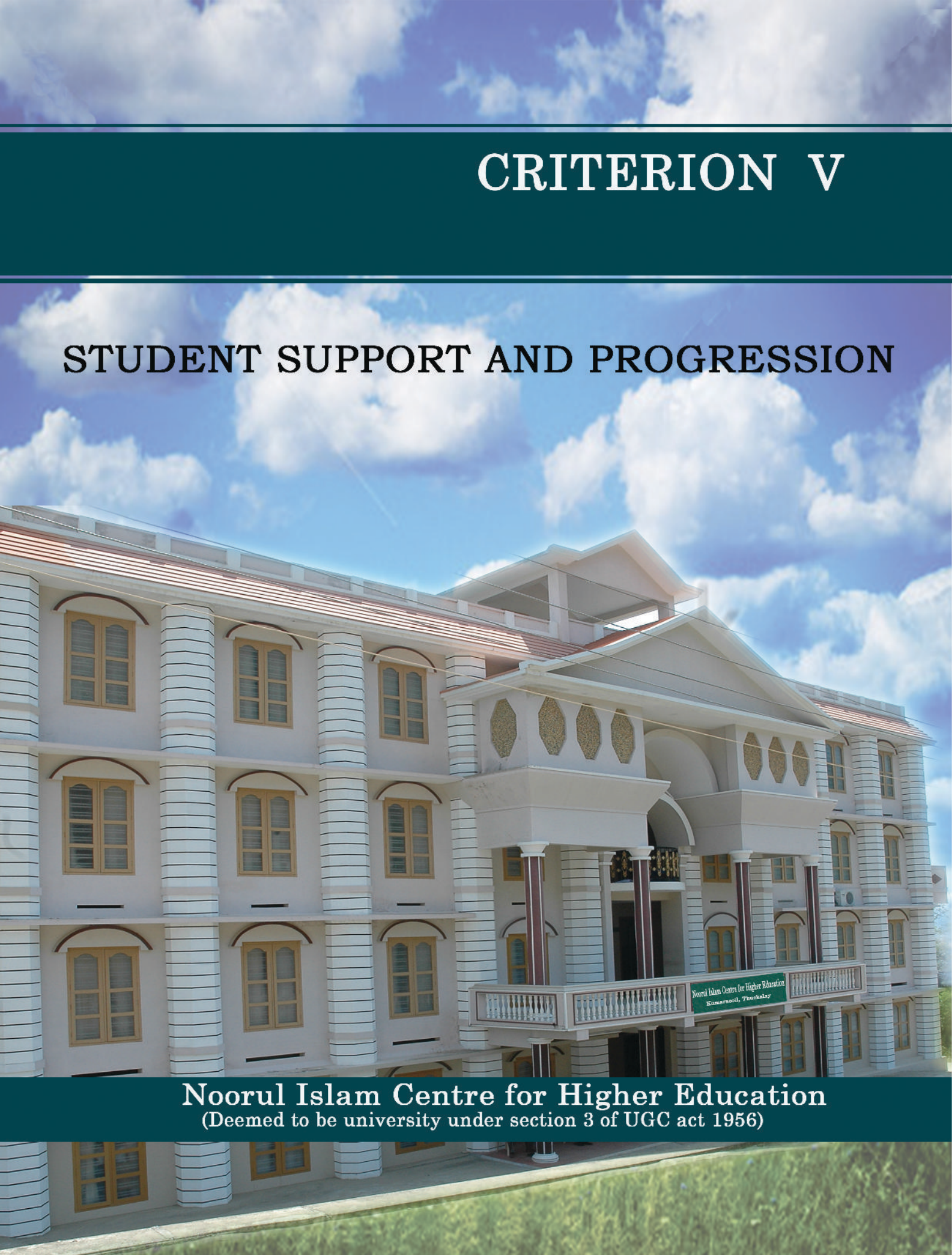
concerned technical assistants with the help of HOD. The System Manager is responsible for the maintenance of the computers in the campus.

4.4.2. How are the infrastructure facilities, services and equipments maintained? Give details.

The University has appointed housekeeping/ technical staff for day to day cleaning and maintenance of the university premises. The University provides adequate budget for maintenance of infrastructure facilities and equipment. Annual Maintenance contracts (AMC) are entered into with service providers for the maintenance of important equipments in the university.

CRITERION V

STUDENT SUPPORT AND PROGRESSION



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION V STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes.
Mentoring the students is carried out strenneously to support them in the successful completion of their and make them have a good career. A mentor has 20 to 25 students and continue to guide them throughout their studies till the completion of the course. The main duty of a mentor is to care for the welfare, the attendance and academic performance of the assigned students. The mentor will meet the students regularly and record the discussions of their meet. The status of the students is informed to the stakeholders often. The status of absence of a student is monitored and recorded in time.

Also, performance in the internal and model tests is monitored and if necessary coaching is given to the needed. The mentor will also be monitoring the behaviour and discipline of the students. Mentors inculcate in them ethical behaviour well with the students, staff and other management people.

Physical and mental health of the students and their performances and achievements in co-curricular and extracurricular activities are also monitored regularly. Personality development of the students is channelized for their overall growth. Students are given additional academic support by way of conducting remedial classes for who are weak in their studies. Councillors are assigned to take care of the weak students. Access to information through University Websites is allowed anywhere anytime. Maintaining proper discipline of the students everywhere is one of the main aims of the institution.

Structural characteristics of student support and mentoring system are as follows: Mentor has to keep the bio-data of each of his / her wards. Student Affairs office has been established with a Director and supporting staff to take care of and monitor the activities, of students.

The functional characteristics of student support and mentoring are as follows: Mentors are advised to look after the students. They monitor the students with regard to their discipline in both academic and personal levels. Mentors give every day attendance report of the students to the office of Director, Student Affairs. Mentors collect feedback from students

about the staff who handle the subjects. Mentors strictly monitor the behaviour of the students inside the class and university campus. Mentors must be ready to arrange for medical aid to students who need emergency treatment. Mentors are responsible for arranging Industrial Visits and tours for the students.

Women's Cell and SC/ST Cell provide necessary counselling to the students of the community. Security personals have been put up and lighting installed in various locations of the campus to strengthen the security of the students.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

The provisions available for academic mentoring are: Students are encouraged to participate in all types of academic events, cultural events, sports, co-curricular and extracurricular activities happening in the university. Technical level events conducted by the university help the students to express their views and get necessary answers from the resource persons. Industry and management experts are often visiting the campus to provide necessary information on different levels of the needs of the students. Faculty members help the students in clearing their doubts in their curriculum and provide necessary guidance on their projects.

WiFi enabled campus with the computing devices help the students to communicate and get answers from the corresponding staff members through online. Students can avail the help of the faculty for this purpose one hour before the start of the classes and half an hour after the hours. Question banks with answers and other course materials are uploaded in the University Website and Digital Library server for round the clock reference.

5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Yes.
The Department of Placement and Training has been established in the university is functioning for providing guidance to students, for their career counselling, soft skills development, career path identification through collaboration with industries and training organizations.

Departments remain in touch with alumni to get their suggestions in this regard. The following systems work efficiently and regularly for the benefit of the students.

CAREER COUNSELLING:

Career counselling is given to students at various levels The University has a dedicated team of the faculty of the Department of English imparting Soft Skills to the students. Soft Skill Programmes are taught by internal resource persons and slots are allotted in the regular time table. Also, the students are trained through external corporate training agencies like TCS, IBM, Infosys etc. The Department of Placement and Training regularly conducts group discussions, other similar orientation and training programmes for the students. Mock tests and interviews are conducted to prepare them for placement and to face the interviews.

The University is an Advanced Partner of Campus Connect Initiative of Infosys Bangalore, for enhancing the employability Skills of the Engineering graduates. Infosys Campus Connect —Soft Skills module is being rolled out every year. Faculty members of the Department of English who have earlier been trained by experts of Infosys, train the students. The various programmes that are conducted for the benefit of the students by the university as a part of the curriculum are given below.

Sl. No.	Name of the programme	Duration (in semesters)
1.	Soft skills Programme for II and III year B.E./B.Tech. students	04 semesters
2.	General Aptitude Skill classes from III Semester	04 semesters
3.	Career Skill Programme for I year B.E./B.Tech. Students	08 semesters
4.	Reasoning skills from III semester	04 semesters
5.	Soft skills development.	08 semesters
6.	Aptitude and reasoning skills development.	08 semesters
7.	Foreign Languages Classes (Japanese, German, French)	06 semesters
8.	Career Skills development	08 semesters
9.	Principles of Management	02 semesters
10.	Professional Ethics	02 semesters

11.	Communication Development classes	08 semesters
12.	Business English Certificate Course – Preliminary	02 semesters
13	IBM provided training on DB2,RAD and RFT for both students and staff	06 semesters

ACADEMIC COUNSELLING:

The Faculty Advisors guide the students in academic and personal matters by offering the required help in terms of mentoring and counselling. Head Of the Department counsels the students at the department level. University has constituted a dedicated team of senior faculty to counsel the students which is intented to improve their academic performance.

PERSONAL COUNSELLING:

Personal care of students is taken by the leadership of the Faculty advisor along with other faculty members and problems like family issues, misunderstanding with family members, career guidance social issues etc. are counselled by them. A Grievance Redressal Cell is constituted to look into the grievances of students and to redress their problems. The faculty members meet the 20 students assigned to them in each class every week and help them/guide them to face all challenges in academic and real life. An exclusive counselling and guidance cell is set up to attend the problems of newly admitted students.

5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes.

University facilitates Bank loans by providing necessary documents to the students as required by the Banks.

5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes.

All the details required as per the UGC and AICTE guidelines are provided in the Information Brochure, Regulation Handbook, Syllabus Book and Academic Calendar. The hard copies are prepared and distributed to the students during the start of every academic year.

Online information is also available in the University website (www.niuniv.com).

5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil./Ph.D./Diploma/others (please specify).

Merit scholarship for the students: Students who have secured 85% and above marks in the qualifying examinations are eligible for a fee e concession of Rs.65000 per year. Scholarships are given to the students from the economically weaker sections of the society. Scholarships are given to the wards of the University employees with a fee concession of Rs.20000 per year. Monthly university stipend is given to the full time Ph.D. scholars.

Academic Year	Programme	BC/MBC/ SC/ST	Minority /Farmer /Teacher	Total Amount
2013-2014	UG	07	Nil	21,59,535
	PG	01	01	20,455
2012-2013	UG	09	30	12,00,600
	PG	01	04	1,51,400
2011-2012	UG	198	04	28,32,723
	PG	01	02	60,000
2010-2011	UG	361	23	41,01,027
	PG	17	02	1,25,705

Academic Year	Category	No. of Students	Amount
2009-2010	SC/ST/SCC	104	11,64,960
	Minority	73	20,10,000
	BC	316	12,44,678
	MBC	122	6,04,798
	Teachers Welfare	5	25,000
	Farmer	16	56,000
Total		636	51,05,436
2010-2011	SC/ST/SCC	74	13,80,735
	Minority	45	12,00,000
	BC	181	8,84,932

	MBC	123	6,10,815
	Other workers	18	1,23,000
	Teachers Welfare	3	15,000
	Farmer	3	12,250
Total		447	42,26,732
2011-2012	SC/ST/SCC	45	19,66,160
	Minority	30	4,20,000
	BC	108	5,05,514
	MBC	46	1,75,049
	Other workers	2	16,000
	Teachers Welfare	2	10,000
Total		233	30,92,723
2012-2013	SC/ST/SCC	9	5,53,000
	Minority	34	6,80,000
	BC	1	75,000
	Total	44	13,08,000
2013-2014	SC/ST/SCC	8	1,09,990
	Minority	104	20,70,000
	Total	112	21,79,990
2014-2015	SC/ST/SCC	8	66,420
	Minority	179	50,10,500
	BC	2	14,500
	Total	183	50,91,420

5.1.7 What percentage of students receives financial assistance from state government, central government and other national agencies (Kishore Vaigyanik ProtsahanYojana (KVPY), SN Bose Fellow, etc.)?

Financial assistance from the State and the Central Governments is given in criterion 5.1.6. No grants are provided to them from the national agencies programmes such as KVPY, SN Bose etc.

5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?

No.

5.1.9 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes. The details are provided in 5.1.4.

5.1.10 What types of support services are available for

OVERSEAS STUDENTS:
Special hostel accommodation, food, entertainment and visa processing services are given to the students. Co-ordinator appointed by the university taken care of the overseas students and provides support services like institutional familiarization programme, academic and language orientation, student mentorship and medical care.

PHYSICALLY CHALLENGED / DIFFERENTLY-ABLED STUDENTS: Ramp facility is provided to the physically challenged students. Ground floor class rooms are provided to them. Vehicle parking is provided nearer to the class rooms. They are given priority in queue and given assistance in availing all services. In hostel, the ground floor is allotted for the students with physical disabilities.

SC/ST, OBC AND ECONOMICALLY WEAKER SECTIONS:
Scholarship and loan facilities are prioritized for them. SC/SCT Cell has been started to handle their problems within and outside the campus. University ensures maintaining equity to them among all students. SC/ST/OBC students and Economically weaker sections receive financial assistance from Government in terms of tuition fee and maintenance charges. The University also facilitates the same.

STUDENTS PARTICIPATING IN VARIOUS COMPETITIONS /CONFERENCES IN INDIA AND ABROAD:
Special care is taken of the students who make travels for participation in academic events and the like wherever they go. Special diet is provided to them for maintaining their good health. Travelling allowances are provided by the University. They are given privilege in their series tests by considering their absence as ON DUTY leave and retest will be conducted as compensation.

HEALTH CENTRE, HEALTH INSURANCE etc. :
A fully equipped Health Centre headed by male and female physicians is active for 24x7 hours inside the campus. Medical Laboratory is also attached with the Health Centre for clinical testing. An ambulance fully equipped with medical aids is also available in the campus to take sick

students to hospital. High Tech Hospitals are located within the 15 KMs from the university campus. The university has established a good relationship with the physicians and other medical personnels.

Health insurance is available to all the students who are studying this university.

SKILL DEVELOPMENT (SPOKEN ENGLISH, COMPUTER LITERACY, etc.) :

Special classes are conducted for the students with poor understanding and writing in English. The main aim of the university is to provide computer literacy to all the students who are studying in the campus and hence provide them with laptops and WiFi hotspot all around the campus.

Courses are being conducted for the students as value added courses with respect to English and other languages. All students are screened for their language proficiency and other soft skills to identify their personality and learning style. The Professional Experts from various fields are invited to interact with the students and to ascertain their requirements.

There is a aptitude lab equipped with Globarena Software for improving the student‘s communication skills, writing skills, spoken English, computer literacy, etc. Students are trained on interpersonal skills to improve the level of confidence of the students to face the placement interviews. University organizes soft-skill training programme for developing the inter-personal skills of the students. WiFi hotspots are installed with high speed internet connectivity available inside the campus for enhancing computer literacy among the students. Periodic skill development workshops are conducted to enhance their skills.

PERFORMANCE ENHANCEMENT FOR SLOW LEARNERS:

Special coaching classes for the slow learners are conducted often by the concerned staff members. Student representatives are advised to identify them and bring them to the staff for further clarification on subject areas after the class hours. Slow learners are identified after each Internal Assessment Examination and they are provided with better care in class rooms. Class mentors take special attention of slow learners. Tutorial lasses are conducted for analytical subjects. Elaborate question banks with solutions are provided to the slow learners.

EXPOSURE OF STUDENTS TO OTHER INSTITUTIONS OF HIGHER LEARNING/ CORPORATES/BUSINESS HOUSES, etc. :

The university has MOU with other universities and the experts from other universities are invited for special talks. Experts from government

organizations such as ISRO, KELTRON, CDAC, Thermal Power Plants, Atomic Power Plants, Banking Sectors etc. are often visiting the campus to share their knowledge and experience with the students. Students are encouraged and guided to participate in events organized by other universities and institutions. Industrial visits and fields trips are arranged for the students for practical exposure. Workshops on entrepreneurship development are organized to enhance the interests of students to start their own business/industry later.

MOU is signed with IBM, Infosys, and other industries. University departments organizes guest lectures by inviting eminent persons from corporate, industries and premier research institutions and Universities to improve the knowledge of students on recent technologies. Students are encouraged to publish their articles in departmental News Letters/University Bulletin.

PUBLICATION OF STUDENT MAGAZINES:
Students are involved in many panels as members, editors, organisers etc. for newsletter, magazine, article, journals etc. of the university. Students' magazine is published once in a year. Students have a monthly newsletter which highlights the current trends in professional engineering education and lays emphasis on the moral conduct of the students wherever they are present.

5.1.11 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

University organises special coaching classes to prepare student for various competitions such as IAS, Defence Services, Bank Examination and Other Civil Service Examinations etc. and more students have attained good ranks in the examinations.

5.1.12 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

ADDITIONAL ACADEMIC SUPPORT AND ACADEMIC FLEXIBILITY IN EXAMINATIONS:
Retest for the students who have participated in sports and extracurricular activities at the time of the tests.

SPECIAL DIETARY REQUIREMENTS, SPORTS UNIFORM AND MATERIALS:

Special dietary and sports uniform are provided to the participants.

5.1.13 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

Yes.

We have the Department of Placement and Training, which is headed by a Director who has worked in MNCs and has experience in foreign organizations. The following services are offered by the department,

Career Guidance
Campus and Off Campus Interviews
Placement Training
Software Skills
Skill Enhancement Programmes
Entrepreneurship
Competitive Exams and Civil Services Exam Training

5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

Year – wise details of placement are given below,

Year	Company Name	No. Of Students
2009-2010	AlumcoArchitural Arcade, Dubai	5
	Infosys, Bangalore	1
	Schogini Systems, Trivandrum	9
	CTS, Chennai	6
	Mabani Steel, UAE	3
	Indian Navy, Bhopal	1
	TCS, Chennai (Off Campus)	4
	RKM Power Gen, Chennai	6
	AlumcoArchitectural,Dubai	5
	HCL-BPO	2
	By the initiative of Entrepreneurship Cell	85
	Teaching profession in Colleges	42
	Total	149

2010-2011	TCS	24
	IVRCL, Hyderabad	06
	CRUISELINESHIP	17
	BIRLASOFT (Off Campus)	04
	HCL	42
	OrangeAssociates, Nest Software (Off Campus)	06
	HCL (Off Campus)	06
	APTARA,Tvm	08
	CSS Corps	14
	Network Systems Tech.	08
	By the initiative of Entrepreneurship Cell	43
	Teaching profession in Colleges	20
	Total	198
2011-2012	TCS	63
	Wipro Infotech	20
	Powerica	12
	Kubota	6
	Blueshift	10
	Aiser work force	7
	VACS Infotech	9
	Phoenix	31
	Clientele	10
	Mind&Tech	15
	Samcys Tech.	20
	Igenieses	35
	KMA Power	17
	Cross Fields	25
	NGS System	20
	Microtek	22
	ProthiousEngg	40
	ING Vysya	11
	OXFAM	25
	ST Technology	20
	Atron Technologies	44
	Origin ITFS	42
	By the initiative of Entrepreneurship Cell	20
	Teaching profession in Colleges	11
	Total	445

2012-2013	TCS	53
	Wipro Infotech	22
	Powerica	12
	Kubota	9
	Blueshift	12
	Aiser work force	7
	VACS Infotech	9
	Phoenix	23
	Clientele	10
	Mind&Tech	13
	Samcys Tech.	22
	By the initiative of Entrepreneurship Cell	35
	Teaching profession in Colleges	20
	Total	247
2013-2014	TCS, Chennai	5
	Precision Engg.Chennai	10
	ArihantDuraplast, Chennai	12
	Devi Building Designers, Tirunelveli	02
	Arabcal,Dubai	02
	Eureka Forbes, Chennai	10
	By the initiative of Entrepreneurship Cell	63
	Teaching profession in Colleges	18
	Total	122
2014-2015	TCS, Chennai	9
	Yume Homes & Lands, Chennai	23
	By the initiative of Entrepreneurship Cell	45
	Teaching profession in Colleges	12
	Total	89

5.1.15 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

Alumni Association meetings are conducted frequently. The Alumni Association facilitates the meeting of the alumni at least once in a year. Alumni reunion is done in the meetings where discussion on career guidance is given much importance. Improvements about infrastructural facilities in the university and installation of latest frameworks in laboratories with latest equipment are frequently discussed by them.

Guest lectures and seminars by Alumni are given related to the latest technologies available in India and abroad.

5.1.16 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

Yes.

As per the norms given by the authorized bodies like UGC, AICTE etc., the university constituted a Grievance Redressal Cell. It deals with the following matters: Hearing and registering the grievances from students, women students, SC/ST/OBC students, employees and stakeholders of the university. The grievances can be sent through mails, phone calls, and letters in suggestion box or in direct to the members of the cell. Proper enquiries are initiated and grievances are redressed through them.

5.1.17 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.

Yes.

Seminars and programmes are conducted to provide awareness on gender related issues. Sexual harassment is considered as a matter that demand top priority and necessary steps are taken when needed on time by the cell. Cyber crime related seminars are conducted more often by the departments to bring awareness to the students of both genders.

5.1.18 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

Yes.

As per the orders issued by the UGC and Government, Anti-ragging Committee has been constituted that comprises of senior staff members and they are assisted by other staff members. Each and every nook and corner of the university campus and hostels is monitored by the assigned faculty members throughout day and night. Security personnels are deployed in the campus 24x7 hours. Class timings for the first year students are adjusted not to synchronize with those of the senior students. Intervals, lunch time and closing time are different for first year students and other senior students. Separate hostel blocks are maintained for the junior and senior students.

The Anti Ragging Committee Comprises:

Appendix I

Anti Ragging Committee

Anti Ragging hotline numbers: 09444022063, 09486856103, 09443125936, 09486856102

S.No	Name	Designation	Position
1.	Dr. S. Manickam	Registrar	Chairman
2.	Dr. C. Ratnam Nadar	Dean(Students Welfare)	Convener
3.	Dr.. R. Dharmaraj	Director of Physical Edn.	Co-Convener
4	Dr. N. Chandrashekhar	Pro Vice Chancellor	Member
. 5.	Dr. K.A. Janardhanan	Director (HRM)	"
6.	Dr. B. Krishan	Director (Humanities)	"
7.	Dr. L.Padma Suresh	HOD/EEE	"
8	Ms. S. Nagendra	Thasildhar, Kalkullam	"
9.	Mr. K.S.Hari krishan	Inspector of Police, Thuckalay	-
10.	Mr. P. Regu Kumar Advocate, Uthradam Keralapuram, Thuckalay - 629175	Legal Advisor	"
11.	Mr. N. Velayutham Pillai 16/78 Sri Ayyapa College Road Sunkankadai – 629807	Dinamani News Reporter	"
12	Mrs. Anitha Natarajan 515/A,Pioneer Subramonian illam Vetturnimadam,Nagercoil-3	NGO	"
13.	Dr. A. Shajin Nargunam	Director, Academic Affairs	"
14..	Mr. J. Charles	Director Students Affairs	"
15	Dr. P.B. Sarasija	Faculty	
16..	Mr.S. Suresh 5/68D Govt Hospital Jn Edaicode KKdist - 629152	Parent	"
17.	Mr. Murugan 49, Vagauidi amman coil street Kottar Nagl -629502	Parent	- "
18.	Ms. S.G .Athira lakshmi S5 ECE	Senior Student	"
19.	Mr. C.M. Kowshick S5CSE	Senior Student	"
20.	Mr. Haldin Milan S1 Mech	Fresher Student	"
21.	Mr. R.S. Radhika S1 BME	Fresher Student	"
22.	Mr. KrishanNair	PRO/ Security Officer	"
23	Mr. Jagan	Lab. Tech. Staff	"

Registrar
25.06.14

Dr. S. Manickam
Registrar
Noorul Islam Centre for Higher Education
Kumaracoil - 629 180, Thuckalay
Kanyakumari District.

Anti Ragging and surveillance squad is always roaming throughout in

order to monitor the junior students in the campus. Online Anti-Ragging Affidavit is submitted annually to Hon. Supreme Court of India and UGC.

5.1.19 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

STUDENTS:
Feedback on the selection and modification of curriculum, course, teaching staff, technical staff and other experts are received. Analysis is done on the views of the students and necessary actions are taken as remedial measures.

STAFF MEMBERS:
Feedback in the form of appraisal by the students is taken to improvise the teaching skills of teachers.

PARENTS:
Parents' meeting with any staff members at times of need is encouraged for the betterment of the wards assigned to a teacher.

EMPLOYERS:
Curriculum design that reflects the latest technology is discussed with the employers more often. Details on student requirement and eligible students for employment are informed earlier. The Board Of Studies in each department incorporates at least two experts from reputed organizations.

ALUMNI:
Feedback from alumni helps frame the syllabus so as to meet the requirements for placement and career prospects of students.

EXPERTS:
Lectures on latest trends are often delivered by experts from outside the campus. Feedback from the students is collected for further analysis and discussion in Boards Of Studies, Placement Training, Skill Enhancement Programmes etc. In addition to that, experts who visit the university for National and International conferences are utilized for university curriculum designing and development.

5.1.20 How does the university ensure the participation of women students in intra- and Inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

Inter-department competitions are often conducted to test the level of woman students' talents in events. Women Students have participated in cultural events inside the campus and in other institutions. The various schemes provided by the University for the Effective Women Students Participation are: fee concession to the participants, gym and yoga classes in Ladies Hostels for their sports activities and indoor game courts inside the Ladies Hostel.

5.2 Student Progression

5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

Student strength of the University for the Current Academic Year is as given below:

UG COURSES

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	6	-	7	1	6	1	4	1
ST	-	-	1	-	1	-	-	-
MBC	10	6	10	2	8	3	23	6
OBC	153	16	270	50	317	53	270	47
General	355	76	196	43	107	22	115	21
Others	-	-	-	-	-	-	-	-
Total	524	98	484	96	439	79	412	75

PG COURSES

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	1	1	-	-	1	-	2	2
ST	-	-	-	-	-	-	2	-
MBC	-	-	-	-	-	-	-	-
OBC	53	46	73	110	89	154	101	132
General	57	72	87	69	36	36	26	26
Others	-	-	-	-	-	-	-	-
Total	111	119	160	179	126	190	131	160

Ph.D. COURSES

Year	2011-2012		2012-2013		2013-2014		2014-2015	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	-	2	1	2	1	-	-	1
ST	-	-	-	-	-	-	-	-
MBC	1	-	4	-	-	3	1	-
OBC	-	-	1	1	3	8	-	-
General	-	-	2	-	-	-	-	-
Others	28	33	30	26	28	38	48	45
Total	29	35	38	29	32	49	49	46

Student Progression details are as follows,

Academic Year	Student Progression	% of Students Admitted
2015-2016	UG to PG	20
	PG to M.Phil.	20
	PG to Ph.D.	15
	Ph.D. to Post-Doctoral	-
	Employed • Campus selection • Other than campus recruitment	50
2014-2015	UG to PG	15
	PG to M.Phil.	10
	PG to Ph.D.	15
	Ph.D. to Post-Doctoral	-
	Employed • Campus selection • Other than campus recruitment	45
2013-2014	UG to PG	15
	PG to M.Phil.	15
	PG to Ph.D.	15
	Ph.D. to Post-Doctoral	-

	Employed • Campus selection • Other than campus recruitment	45
2012-2013	UG to PG	15
	PG to M.Phil.	15
	PG to Ph.D.	10
	Ph.D. to Post-Doctoral	-
	Employed • Campus selection • Other than campus recruitment	45
2012-2013	UG to PG	20
	PG to M.Phil.	10
	PG to Ph.D.	15
	Ph.D. to Post-Doctoral	-
	Employed • Campus selection • Other than campus recruitment	60

5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?

The programme-wise completion rate during the past four academic years is given below.

Academic Year	Programme	Completion Rate (in Stipulated Time)
2014-2015	UG	-
	PG	-
	M.PHIL.	95
	PH.D.	-
2013-2014	UG	-
	PG	95
	M.PHIL.	96
	PH.D.	-
2012-2013	UG	-
	PG	84
	M.PHIL.	83
	PH.D.	-

2011-2012	UG	84
	PG	92
	M.PHIL.	-
	PH.D.	40
2010-2011	UG	81
	PG	96
	M.PHIL.	-
	PH.D.	40
2009-2010	UG	86
	PG	93
	M.PHIL.	-
	PH.D.	50

5.2.3 **What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, GATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?**

The UG and PG students of NICHE appear for the competitive exams and the details of candidate qualified in the competitive exams are given in the respective Evaluation Report of Departments.

5.2.4 Provide category-wise details regarding the number of Ph.D./ D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.

Category-wise details regarding the research thesis / project submissions in the University are shown below:

Year	Programme	Submitted	Accepted	Resubmitted	Rejected
2014-2015	Ph.D.	13	13	Nil	Nil
2013-2014	Ph.D.	12	11	01	Nil
2012-2013	Ph.D.	07	07	Nil	Nil

5.3 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

SPORTS AND GAMES:

The total land area available to conduct sports and games events spread out for about 10 acres. Individual courts and grounds are available for the conduct of the events. The sports and games events are conducted by the Department of Physical Education with the participation of the students of the institution. The various sports and games events that have been arranged and organized as indoor or outdoor events in the University is given below.

Academic Year	Tournaments	Type	No. Of Participants	Winner/ Runner
2014-2015	Kabadi – Women Team	Inter University	10	Runner
2013-2014	Kabadi – Women Team	Inter University	10	Runner
2012-2013	Kabadi	Inter University	15	Participation
2012-2013	Marathan	Inter University	18	Participation
2010-2011	Athletics	Inter University	12	Winner/ Runner/ Participation
2010-2011	Football	College Level	16	Participation
2010-2011	Volley Ball	College Level	10	Participation
2010-2011	Badminton	College Level	08	Participation
2009-2010	Kabadi	Inter University	12	Participation
2009-2010	Chess	College Level	06	Participation
2009-2010	Volley Ball	College Level	12	Participation
2009-2010	Table Tennis	College Level	04	Participation
2009-2010	Basket Ball	College Level	12	Participation
2009-2010	Basket Ball	College Level	12	Participation
2009-2010	Basket Ball	College Level	12	Participation

Academic Year	Tournaments	Outside the University
2014-2015	14	08
2013-2014	12	02
2012-2013	06	-
2011-2012	11	10
2010-2011	09	01
2009-2010	05	01

CULTURAL PROGRAMMES:

Annual cultural programmes are conducted by the departments of the University and the programme-wise details are given below:

Mono Act
Drama
Dance
Singing
Short Films
Essay Writing
Poetry Writing
Drawing
Debate
Folk
Elocution

EXTRA-CURRICULAR ACTIVITIES:

Students are encouraged and permitted to participate in extra-curricular activities conducted by the university as well as other institutions. The various programmes and the participation details are given below:

Aptitude and reasoning skills competition
Chess competition
Quiz and IQ competition
Modelling and CAD competition
Paper Presentation
Poster Presentation
Software Program Writing

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

Students have won in various competitions held in different levels in various programmes. The details of achievements are given below:

Programme	Level	Participation
Cultural	University	02
	State	01
	Zone	-
	National	-
	International	-
Cocurricular	University	18
	State	07
	Zone	1
	National	-
	International	-
Extracurricular	University	21
	State	11
	Zone	-
	National	-
	International	

Following are the extracurricular activities for the students in the university campus for the benefit of the society. Events are being conducted for the below mentioned schemes/clubs with the participation of students, staff and other beneficiaries from the public in order to help the society in all levels of need.

Scheme / Club Name	Department	Activities
National Service Scheme (NSS)	All the Departments	Service to the Society
Youth Red Cross (YRC)	All the Departments	Blood Donation
E-Waste Management Club	Information Technology	Awareness on E-Waste Management (Reduce, Reuse and Recycle)
Mathematics Club	Department of Mathematics	Solve problems easier
Drive Club	Mechanical	Efficient Automotives Manufacturing (Eco friendly)

5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?

Yes.

Students are often informed of the culture and tradition followed by our ancestors for the good of any individual, society and for the country. Short films on ethics, culture, history, great leaders etc. are often filmed for the beneficiary of the students. A film on the national leader and the former Chief Minister of Tamil Nadu "Kamaraj" was filmed in the campus recently.

5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

Students are involved in the various panels formed for the conduct of various events such as associations, seminars, conferences etc. Publications in newsletter, magazines, calendars etc. are done by the students. Students from undergraduate and post graduate have published papers in IEEE and Springer conferences conducted in the university.

5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.

No.
But, students are given privilege to act as Student Secretary of events such as conferences, associations, seminars, workshops, cultural, co-curricular, extra-curricular and sports events that are conducted inside the campus of the university. Student representative for each class is selected from among the students and he/she is given authority to guide / represent the students for the betterment of their studies and other activities. The suggestions given by the student representatives in course and programme committee meetings are considered for curriculum development and other activities.

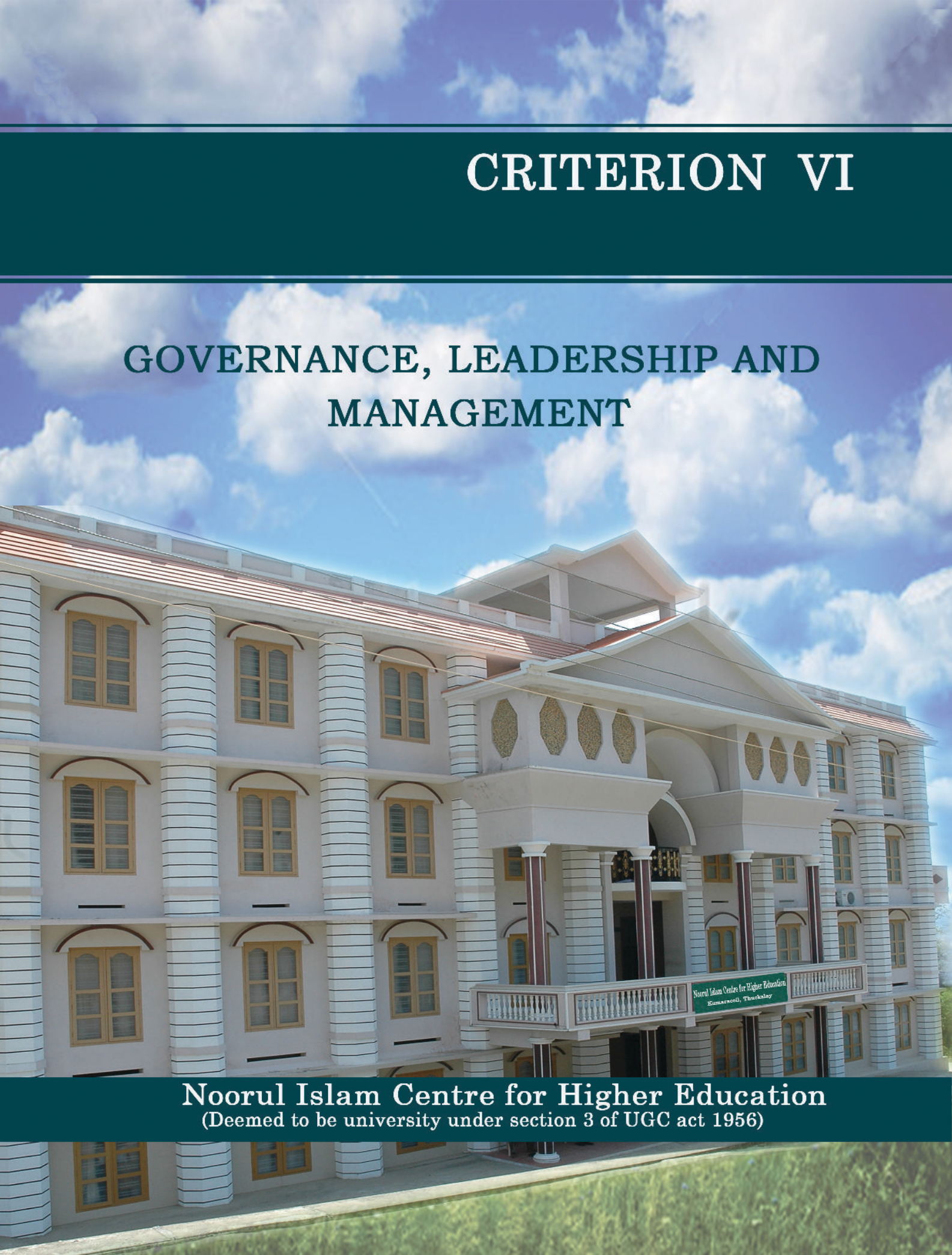
5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

The following academic and administrative bodies/ societies have student representatives. The representatives of various classes are engaged in academic and administrative activates concerned as and when required. The HODs along with the faculty select the students based on their merit and interest as Placement Representative, Cultural Committee, Discipline Committee, Sports Committee, Grievance Cell, Library Committee, Campus Development Committee, Anti Ragging Committee, Women

Cell, Students Council, Horticulture Committee, Magzine and News Letter Committee, Class Representative, Association Secretary, Joint Secretary, and Treasurer from various years of study. The representative for class committee is selected and the meeting is conducted at the end of every internal tests. The feedback about staff members, syllabi covered and other valuable suggestions are considered. The Program Committee representatives can give their feedback about the syllabi and the same is considered during syllabus revision. Every year, a final year student will be selected as an IET Student Chapter Chairman based on his / her academic performance.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the university.

VISION

Vision of the University is to deliver excellence with relevance in the field of higher education and research focusing on the needs of the nation in tune with the technological revolution to cope with the knowledge explosion and global competence.

MISSION

To develop the Institution as a centre of excellence, keeping pace with advances in the field, so as to provide quality higher education to the students and instill in them high standards of discipline and ethics so that they become enlightened individuals in the service of humanity and to carryout focused research in the frontier areas of science and Technology.

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?

Yes.

The Mission Statement defines the educational objectives of NICHE in providing excellence in higher education by high levels of teaching and research with focus on the needs of the society and rural public.

OBJECTIVES

- Provide Excellent Academic, Physical, Administrative, infrastructural and Moral ambience.
- Promote Quality and Excellence in Teaching, Learning and Research.
- Explore new ways and seek new insight yet retain unique diversified religious and cultural flavour of our mother land India, in a democratic and secular environment.
- Contribute towards building a socially sensitive, humane, inclusive society.
- Cultivate critical thinking that can spark creativity and innovation along with retention of old traditions and wisdom.

6.1.3 How is the leadership involved in ensuring the organization's management system development, implementation and continuous improvement?

- The Universitiy's Board of Management (BOM) owns the responsibility with regard to the academic, financial, physical resources and the other administrative functions of the University.
- Deployment of the various policy directions is rightly done through the BOM, Finance Committee, Academic Council, Planning and Monitoring Committee and Board of Research, Development and Consultancy (BRDC)
- Boards of Studies and Academic Council are responsible for the maintenance of standards of education and teaching, restructuring and updating existing courses and introducing new courses in the emerging areas of knowledge.

In interacting with its stakeholders?

Interaction with alumni is facilitated through alumni meets. Interaction with industry executives helps map their expectations.

Students, being the main stakeholders are able to interact directly with the faculty and the respective Heads of Departments. All faculty members have direct access to the Heads of Departments, Registrar, Deans and the Vice Chancellor.

NICHE officials interact with the parents during admission and whenever the parents seek information in the Parents Teachers Association Meetings. The University promotes a strong interaction with the Industry by including one industrialist in each Board of Studies.

In reinforcing a culture of excellence?

- Students are encouraged to attend national and international conferences and seminars.
- Organizing technical symposiums and seminars in the departments helps improve leadership quality of the students.
- Cash awards for Best research papers every year for the faculty to motivate the spirit of excellence.

In identifying organizational needs and striving to fulfill them?

- The emerging global needs are identified and being met with through various schemes and programs like exchange of students and encouraging the students to do Research Projects.
- Faculty members are encouraged to submit project proposals to various Funding agencies.

6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.

None of the top leadership positions were vacant for more than a year in this university.

6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes. All positions in the statutory bodies of the university like BOM, Academic Council, Finance Committee, Planning and Monitoring Board, Boards of Studies and Board of Research, Development and Consultancy (BRDC) are filled immediately and meet regularly.

Board of Management		
Sl. No.	**Name**	**Designation**
1.	Prof.Dr. R. Perumalsamy, (Vice-Chancellor, NICHE)	Chairman
2.	Dr.N.Chandrasekhar, Pro Vice-Chancellor, NICHE)	Member
3.	Dr.C.Ratnam Nadar (Dean, Students Welfare)	Member
4.	Dr.A.Shajin Nargunam, (Dean, Faculty of Computer Science)	Member
5.	Dr.K.A.Janardhanan, (Director, HRM) (Nominee of the Chancellor)	Member
6.	Dr.B.Krishnan, (Director, I Year B.E./B.Tech. Programmes) (Nominee of the Chancellor)	Member
7.	Dr.J.Amar Pratap Singh, (Director, Administration and Computing Centre) (Nominee of the Chancellor)	Member
8.	Nominee of the Government of India	Member
9.	Dr.M.Sivapragash, (Professor, Department of Mechanical Engineering)	Member
10.	Dr.J.R.Jeba, Associate Professor & HOD Department of Computer Applications	Member
11.	Dr. Salim Shafeek (Nominee of the sponsoring Society)	Member
12.	Dr.S.Manickam, Registrar, NICHE	Secretary

Finance Committee		
SI. No.	**NAME**	**POSITION**
1	Dr. R. Perumalsamy	Chairman
2	Dr. N. Chandrashekhar	Member
3	Dr. K.A. Janardhanan	Member
4	Dr. A. Shajin Nargunam	Member
5	Dr. Umayorubagan	Member
6	Mr. S.I Srinivas	Member
7	Mr. S. Ganesan – Finance Officer	Member Secretary

6.1.6 Does the university promote a culture of participative management? If yes, indicate the levels of participative management.

Yes. NICHE promotes a culture of participative management by involving faculty members in various academic, research and administrative bodies.

Department level activities are coordinated by the Head of the Department after due deliberations and discussion in the department meetings.

Other academic related matters are discussed in Class Committee, Course Committee and Program Committee meeting.

Curriculum and syllabus related matters are discussed and decided through Boards of Studies (BOS).

All academic related policies are decided in the Academic Council.

6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.

Not Applicable as university is non-affliating university

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

Not Applicable

6.1.9 How does the university groom leadership at various levels? Give details.

NICHE grooms leadership at various levels by class committee chairman, class advisor for each class, various committee members, placement coordinators, leaders of various professional bodies etc.

Student leadership gets groomed through class representatives, association secretaries and association representatives and members in various student associations and clubs.

6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.

Yes. NICHE has the National Knowledge Network connectivity which provides a platform for knowledge sharing and management. Experts from Academics and Industries, eminent persons of National importance are regularly invited to interact with the students.

The National Programme on Technology Enabled Learning (NPTEL) course materials, other e-contents prepared by the faculty and research dissertations are collectively maintained in the university server and are made available through LAN connectivity.

6.1.11 How are the following values reflected in the functioning of the university?

Contributing to national development:

- The University is committed to contribute to societal progress through the pursuit of knowledge, its dissemination, and application of knowledge in all the endeavors it makes.
- NICHE prepares students with the required knowledge and skills, thereby empowering them to serve the nation.
- Faculties are involved in several projects funded by various national sponsoring agencies such as DST, UGC, AICTE, DRDO, CSIR towards national development goal.
- NIUSAT is a nano satellite being developed by the students and faculty of NICHE for disaster support management and agriculture crop monitoring.

Fostering global competencies among students:

Students are encouraged to participate and present papers in seminars and national and international seminars and conferences.

Additional coaching is provided to the students to improve their aptitude and reasoning ability.

Collaboration with institutions and industries provides industrial work exposure during the course of study.

e-learning resources and NPTEL course contents are made available for acquisition of knowledge and competencies to face global challenges.

Special coaching is given to students to encourage and support them in appearing for Civil Service Examinations and other competitive examinations like TOEFL, GRE, GMAT, IELTS etc.

Inculcating a sound value system among students:
Introduction of a core course on 'Professional Ethics" in all UG programs to inculcate the moral values. However, University has generated a value and culture based environment in the campus through periodical activities and programmes

Students are motivated to participate in blood donation camps and other social service camps organized by NSS, YRC and Eco Club.
Other management subjects like Environmental Management and Total Quality Management help the students imbibe strong value systems.

Promoting use of Technology:

- ICT enabled library with OPAC system is available for use by students.
- Smart Class Room in each department is equipped with Writing Board matte finish, Multimedia Projector, Visual Presenter Portable Type, Amplifier, mic and speaker to facilitate ICT enabled teaching learning process.
- E-Resources and NPTEL contents are made available in the Digital Library setup. Campus-wide availability of Wi-Fi further promotes the use of technology.

Quest for excellence:

Collaborative MoUs with national and international institutions help purse teaching and research to accomplish the goal of excellence.

Motivating students through various awards like Gold Medals for university first ranks holders and other meritorious awards is an act of recognition in performance. Faculty award for producing 100% result in the University Examinations is yet another recognition of meritorious performance.

6.2 Strategy Development and Deployment

6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes, The perspective plan is to equip students with essential skills for their future careers and to encourage and motivate talented students to proceed with further studies and research. NICHE aims at developing the independent thinking, expertise, and ability of the students to integrate or accommodate new ideas. In addition, NICHE shapes them into well rounded citizens by

promoting a democratic spirit in them.

Teaching and learning

Student-centric choice-based credit system with continuous internal assessment creates a conducive teaching and learning ambience in NICHE.

Research and development

NICHE's industry-academia collaboration is one of the crucial indicators and distinctive features of promoting research and development. This strengthens the industrial technology and R&D activities and paves way for inviting invite experts from industries to co-teach and enhance students' practical ability in their specialized fields. The tie-up not only increases the quantity but also enhances the quality of collaboration with the real world.

Ph.D. program is strengthened by incorporating systematic evaluation and filtering processes for admission such as entrance test and interview. Progress of the doctoral student is regularly evaluated by the Doctoral Committee.

Community engagement

The university organizes training programs for rural public based on their societal needs. Health campaigns and awareness programs are conducted to bring awareness and health consciousness among the rural community.

Human resource planning and development

Human Resource department takes care of the Human Resource requirement planning policies, and periodic training programs are conducted to remold the faculty and students.

Industry interaction

Interaction with industry is made through seminars, workshops, internships, and research and consultancy projects.

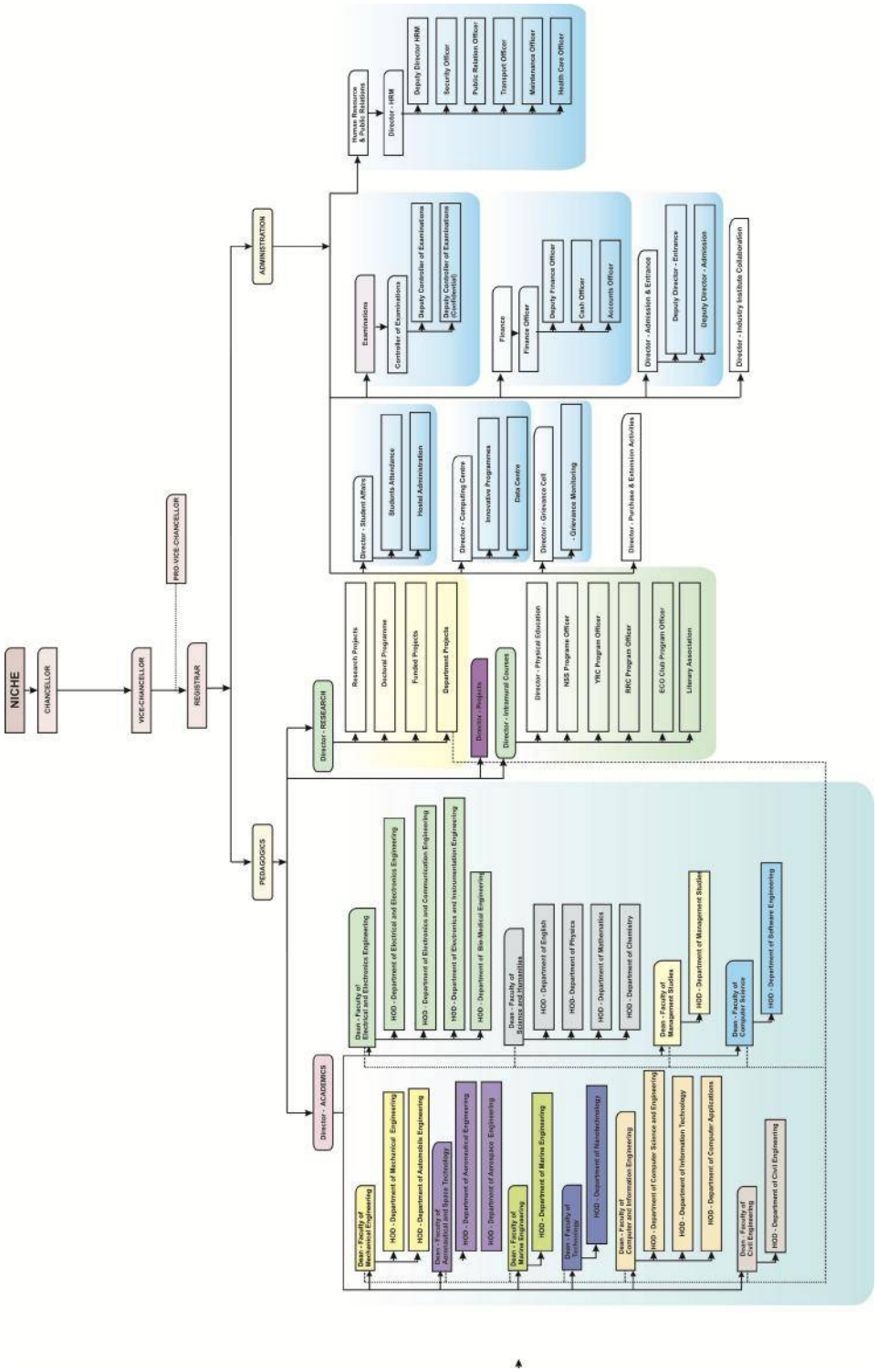
Guest faculty is also invited from industry to help in teaching sections of courses and each Board of Courses and Studies has got an Industrial Expert. Further Industry Interactions are coordinated by the Industry Institute Interaction Cell of the university.

Internationalization

The university has signed MoUs with International Universities for student exchange and teaching-learning and research

6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.

Organizational Structure of NICHE is enclosed in Annexure 6.1


NICHE
CHANCELLOR
VICE-CHANCELLOR
PRO-VICE-CHANCELLOR
REGISTRAR
ADMINISTRATION
PEDAGOGICS
Director - RESEARCH
Director - ACADEMICS
Human Resources & Public Relations
Director - HRM
Deputy Director HRM
Security Officer
Public Relation Officer
Transport Officer
Maintenance Officer
Health Care Officer
Examinations
Controller of Examinations
Deputy Controller of Examinations
Deputy Controller of Examinations (Evaluation)
Finance
Finance Officer
Deputy Finance Officer
Cash Officer
Accounts Officer
Director - Admission & Entrance
Deputy Director - Entrance
Deputy Director - Admission
Director - Industry Institute Collaboration
Director - Student Affairs
Students Attendance
Hostel Administration
Director - Computing Centre
Innovative Programmes
Data Centre
Director - Grievance Cell
- Grievance Monitoring
Director - Purchase & Extension Activities
Research Projects
Doctoral Programme
Funded Projects
Department Projects
Director - Projects
Director - Intramural Courses
Director - Physical Education
NSS Programe Officer
YRC Program Officer
RRC Program Officer
ECO Club Program Officer
Literacy Association
Dean - Faculty of Electrical and Electronics Engineering
HOD - Department of Electrical and Electronics Engineering
HOD - Department of Electronics and Communication Engineering
HOD - Department of Electronics and Instrumentation Engineering
HOD - Department of Bio Medical Engineering
Dean - Faculty of Science and Humanities
HOD - Department of English
HOD - Department of Physics
HOD - Department of Mathematics
HOD - Department of Chemistry
Dean - Faculty of Management Studies
HOD - Department of Management Studies
Dean - Faculty of Computer Science
HOD - Department of Software Engineering
Dean - Faculty of Mechanical Engineering
HOD - Department of Mechanical Engineering
HOD - Department of Automobile Engineering
Dean - Faculty of Aeronautical and Space Technology
HOD - Department of Aeronautical Engineering
HOD - Department of Aerospace Engineering
Dean - Faculty of Marine Engineering
HOD - Department of Marine Engineering
Dean - Faculty of Technology
HOD - Department of Nanotechnology
Dean - Faculty of Computer and Information Engineering
HOD - Department of Computer Science and Engineering
HOD - Department of Information Technology
HOD - Department of Computer Applications
Dean - Faculty of Civil Engineering
HOD - Department of Civil Engineering

The Vice-Chancellor is the Head of the institution. He is assisted by the Registrar, Controller of Examinations, Directors and Deans of faculties in all academic and administrative matters. The Board of Management and the Academic Council are the supreme bodies. The Vice-Chancellor is the chairman of these two bodies. The members of these councils express their views and suggestions for the smooth functioning of the university in the periodic meetings. The Boards of Studies are the other bodies where all important academic decisions that fall under their purview are made. After a thorough review, they get the approval for their Curriculum and syllabi in the Academic Council and then the final approval is accorded at the Board of Management.

6.2.3 Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes.
The newly recruited faculty members are given in-service training. At the department level, the lesson plans are evaluated by HOD concerned and then by the Director Academic Affairs. Student evaluation of teachers is done periodically both formally and informally and the feedback is used to improve the quality of teaching. The Research colloquium provides a platform for research scholars to present and discuss their research work with co-researchers and faculty members which helps avoid redundancy in research work/proposals, and provides direction for ensuring quality. The research proposals prepared are scrutinized by experts and their suggestions are incorporated. New measures for academic and administrative improvements are discussed in the Board of Management and the Academic Council.

QUALITY POLICY

We offer value added professional education and promote intensive and innovative research with emphasis on a continual improvement in all our service.

6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

Yes, Complete academic freedom is given to departments for designing curricula and to formulate new and innovative programmes of study, to include appropriate experts in the Boards of Studies and Examinations, evolve and follow innovative teaching and evaluation methodologies, to undertake research projects and consultancies, and to conduct

conferences and workshops. The self-appraisal of the individual faculty and the assessment report by the respective heads ensure accountability in academics.

6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

No

6.2.6 How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

- Yes, students' grievances are addressed by the Grievance Cell headed by a Director. Complaint and suggestion boxes are kept at various places for collecting students' grievances.
- The grievances of faculty and non-teaching staff are addressed at department level by the Heads and, if needed, it will be addressed by the Vice- Chancellor.

6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes.
Students provide feedback using a questionnaire prepared for the purpose. The opinions of the students with regard to curriculum are also collected.
Feedbacks are analyzed and the analysis is shared with the faculty for information and improvements if needed.

6.2.8 Does the university conduct performance audit of the various departments?

Yes. The self-appraisal form as prescribed by the UGC is given to every teacher in the department and the same is submitted to Director Academic Affairs. This helps evaluate faculty improvement in teaching and research work. The self-appraisal forms submitted by the individual faculty and the appraisal report given by the Heads of the Departments are assessed by the Pro-Vice-Chancellor who is duly assisted by the Director -Academic Affairs.

6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?

Not applicable

6.2.10 Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

Not applicable

6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?

To improve the professional development of faculty, NICHE encourages them to attend and conduct orientation programmes, refresher courses, seminars, conferences, and symposia. Faculties are encouraged to organize and participate in seminars /conference and workshops. Faculty Development Programs for teaching staff and organized through HRM department. Those who do not have Ph.D. are encouraged to register for Ph.D. and pursue their research.

Faculty members are motivated to submit research projects to various funding agencies. Spacious Central Library with numerous books, journals, magazines and websites helps faculty to access all technical contents. Incentives are provided to staff for publication of research papers in refereed journals. They are given freedom to utilize project funds.

Non-Teaching:

Computer awareness programs are conducted to train the supporting staff of the university.

6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.

The Self-Appraisal Reports submitted by the faculty are analyzed for deciding Career Advancements . Assessment by the Head of Department is also obtained periodically. Subject allotments to the faculty are done based on the review of the appraisal.

Further, these reviews of the faculty performance help the officials to take decisions related to deputing faculty members to various faculty enrichment programmes.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

The welfare schemes available are Health insurance, ESI, Healthcare Centre, Sports activities, loans for various purposes by Noorul Islam Staff Welfare Association (NISWA). **Noorul Islam Staff Welfare Association**

The Noorul Islam Staff Welfare Association, NISWA, was established in 2004 for the welfare of the teaching and non-teaching members of the

staff of Noorul Islam College of Engineering, presently the Noorul Islam University (Noorul Islam Centre for Higher Education). NISWA is legally registered to provide better service to the members. To cater the need of the staff, NISWA has been implementing a scheme "NISWA VIKAS PATHRA" to provide the loan facility. Nearly 75 lakhs rupees of loan are sanctioned to various members of NISWA.

NISWA is also running CAFETERIA in the campus to provide rich refreshments to both staff and students. This service has won the appreciation of all. Merit scholarships are awarded every year to the wards of the members for their meritorious performance in the SSLC and HSC examinations

Once in a year NISWA is organizing a family tour for the members to the places of tourist importance. NISWA celebrates its annual day on a grand scale providing sumptuous lunch followed by a lucky draw. NISWA also presents useful gifts and diaries to all its members on every New Year Day.

Members of NISWA whole heartedly participate in all the important domestic functions of its co-members and offers substantial sum as gifts. Nearly 9 lakhs rupees are spend to various functions of the families of NISWA members .In the event of a sad demise of any of its members NISWA provide to the bereaved family with half a day salary of all members and a sum of one month subscription of all the members to meet the immediate expenses. Up to this financial year 5 lakhs rupees are spend to the welfare of those families.

Apart from Vice chancellor, Pro-Vice Chancellor, Registrar and Controller of Examinatons, 28 Teaching /Non Teaching staff have been provided with rent free quarters. Full suit has been provided for all the teaching staff. Two sets of uniform per year are provided to all the non-teaching staff, drivers, watchmen etc. Fee concession is provided to the wards of the non – teaching staff.

6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?

The university has created a conducive academic and research ambience for attracting and retaining eminent faculty by providing academic freedom, necessary infrastructure, recognition, and awards.

Principal Investigators of research projects enjoy academic and financial autonomy

6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.

As of now there is no formal mechanism for Gender Audit. Gender data both for students and teachers are collected from the admission records and appointment register. The gender based requirement needs are analyzed and provided based on the collected gender data.

6.3.6 Does the university conduct any gender sensitization programmes for its faculty?

A Women's Cell is functioning in the university for the welfare of the women staff and students. Every year Women Empowement and Women Equity Programmes in the College

6.3.7 What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the university faculty?

Academic Staff College has been set-up to enhance academic competence of faculty and up-dating academic programmes

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

The University has a Budget Committee. Resources are monitored by this committee and the same is also monitored by the Finance Committee and reported to the Board of Management for effective and efficient use.

6.4.2 Does the university have a mechanism for internal and external audit? Give details.

Yes. All finance activities are regularly audited by a Firm of Chartered Accountants and the Audited Statements of Accounts have regularly been filed to the Income Tax Department and the Registrar of Societies within the stipulated time prescribed by the authorities. The authorities may scrutinize the accounts. Internally the Finance Committee reviews the audited Receipts and Payments Account and Income and Expenditure Account and Balance sheet along with the Auditor's Report.

6.4.3 Have the accounts been audited regularly? What were the audit objections, if any, and how were they complied with?

The accounts are audited regularly by a Firm of Chartered Accountants at the end of the financial year. The queries noted were complied with then and there. Hence, there has been and is no report of objections.

6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.

Copy of the Audited Income & Expenditure Statement attached.

6.4.5 Narrate the efforts taken by the University for Resource Mobilization.

1. By creating Endowments from the public and Consultancy Services.
2. Getting Grant-in-aid from various Govt. Agencies like DST, DBT, DRDO, BRNS, TNSTC etc. for the various Research Projects.

6.4.6 Is there any provision for the university to create a corpus fund? If yes, give details.

Yes. As per the provisions of UGC (Institutions Deemed to be Universities) Regulation 2010 the University has created Corpus Fund.As on date Rupees five crores lies in the corpus fund

6.5 Internal Quality Assurance System

6.5.1 Does the university conduct an academic audit of its departments? If yes, give details.

University has constituted Internal Quality Assurance Cell (IQAC). It conducts three meetings in a year to assess, suggest and advise to the faculty and departments. It is comprising of the following:

Internal Quality Assurance Cell Committee Members

SI. No.	Name	Designation
1.	Dr. R. Perumalsamy, Vice-Chancellor	Chairman
2.	Dr. N. Chandrasekhar, Pro Vice Chancellor	Member
3.	Dr. S. Manickam, Registrar	Member
4.	Dr. K.A. Janardhanan, Director - HRM	Member
5.	Dr. S. Gopalakrishnan, Controller of Examinations	Member
6.	Dr. B. Krishnan, Director - Admission	Member
7.	Dr. M. Sivapragash, Director - Research	Member
8.	Dr. L. Padma Suresh, Dean, Electrical and Electronics Engineering	Member
9.	Dr. Mathusoothana S. Kumar, Professor and HOD, Department of Information Technology	Member
10.	Dr. R.S. Shaji, Professor, Department of Information Technology	Member
11.	Mr. R. Narayanan, Former Vice-President, TCS	Member
12.	Dr. K.A. Saju, Professor, Department of Biotechnology, NICAS	Member

13.	Mr. Regukumar, Advocate, Thuckalay	Member
14.	Thiru. K.P. Rajendra Prasad, Ex-MLA	Member
15.	Thiru. R. Narayanan, Former Vice President – TCS	Member
16.	Dr. A. Shajin Nargunam, Director - Academic Affairs	Director

Academic Audit Cell

The academic audit of each department is done by a four member committee nominated by the Vice-Chancellor. Before the commencement of a semester, academic activities are planned at the staff meeting conducted by the Head of the Department and progress is continuously monitored by the Director Academic Affairs. The lecture plans prepared by the faculty members are reviewed by the HOD and endorsed by the Director Academic Affairs. Periodic conduct of course committee, class committee and programme committee helps formulate policies to assess and strengthen the academic functioning of the departments. . These meetings address issues such as lesson plan, staff subject log book, quality assurance in teaching and research, students' performance, and examination reforms. Further, the Academic Audit is conducted during the month of March each Academic Year.

6.5.2 Based on the recommendations of academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?

Students Log Book and Faculty Log book have been introduced to verify the subject coverage details of the faculty.

To improve the research activities in the department, faculty members are motivated to submit projects to various funding agencies.

6.5.3 Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes, Four Member Academic Audit Committee is the central body that continuously monitors and reviews the Teaching Learning Process of the university.

6.5.4 How has the IQAC contributed to institutionalizing quality assurance strategies and processes?

In lieu of maintaining and improving the quality consciousness and quality culture at NICHE, IQAC Cell was been constituted on 22-08-2012. Further the University is certified by STQC Certification services in recognition of the establishment and maintenance of quality management system which complies with the requirements of ISO

9001-2008.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the University for implementation?

Mentor system in the university is strengthened based on the recommendations of the IQAC committee. Mentor acts as personal counselor, advisor and guide all rolled into one, to the student under care so that the student gradually sheds the negative and unhelpful attitudes and attributes and strengths the positive attitudes so that his/her total potential is maximally used in the right direction of his/her total personality development.

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes. Mr. R. Narayanan, Former Vice President, TCS, is an external member and he suggested to incorporate industry oriented electives as part of the curriculum. this is a significant contribution from him for NICHE's curriculum designing.

6.5.7 Has the IQAC conducted any study on the Incremental academic growth of students from disadvantage sections of society?

So far such reviews have not been conducted due to very low number of students.

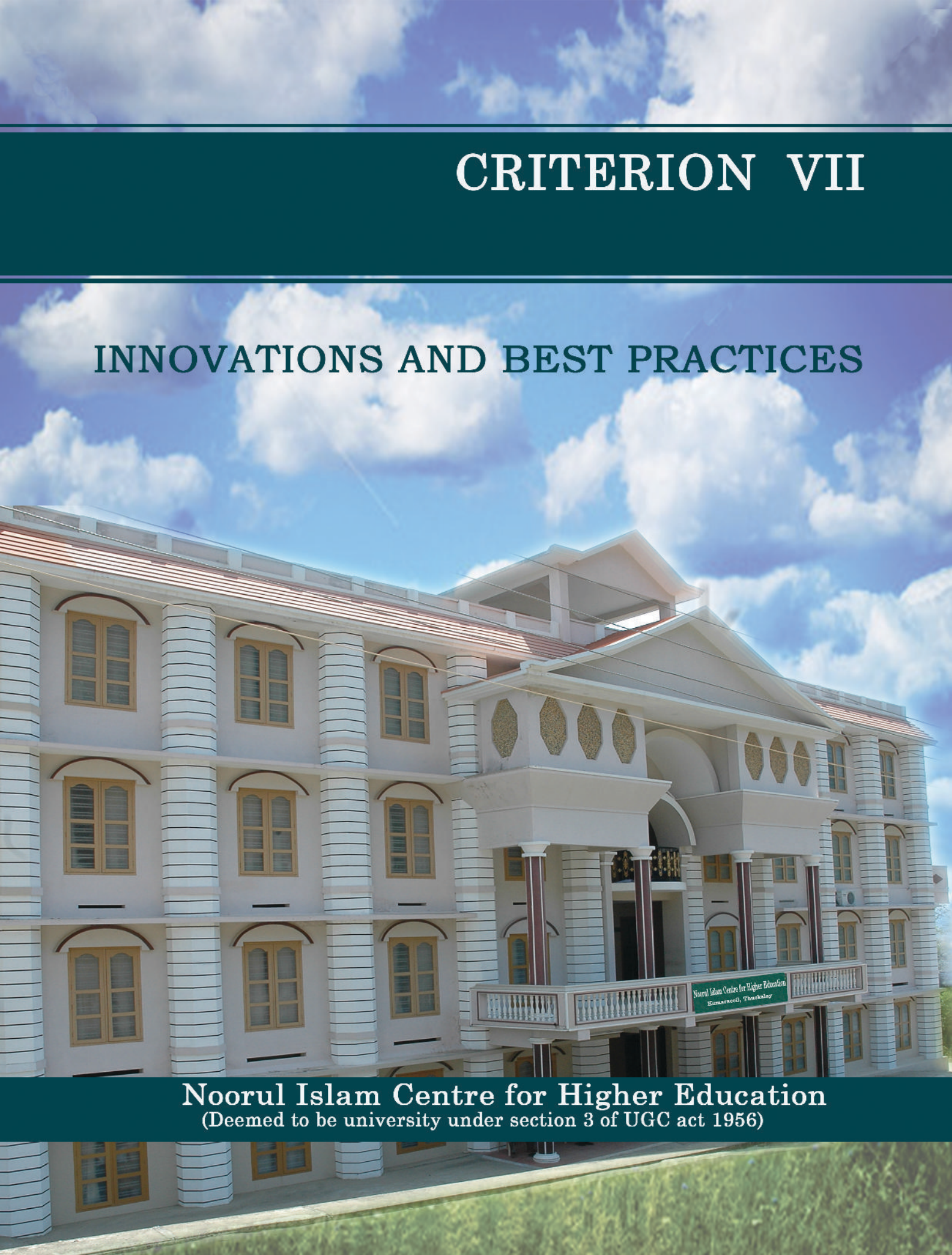
6.5.8 What policies are in place for the periodic review of administrative and academic department, subject areas, research centre's, etc.?

Academic Audit Committee periodically reviews the academic activities of the Departments in the following areas:

- Teaching Learning Process
- Feedback System in Place
- Practical Training Practices
- Transparent and Continuous Evaluation Process
- Co-curricular Activities Organized by the Department
- Extra Curricular and Extension Activities
- Placement Activities
- Department Research Activities
- Consultancy
- Publications

CRITERION VII

INNOVATIONS AND BEST PRACTICES



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Criterion VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the university conduct a Green Audit of the campus?

Yes. The university is situated in the base of the Veli Hills of the Western Ghats and is surrounded by greenery. The university has conducted a Green Audit of its campus and counted the flora of the lush green campus. The eco-friendly campus of the university abounds in variety of trees and plants, some of them even rare ones. The Green Audit undertaken has identified heritage trees also.

- The Green Audit has counted a total number of **6143** trees and plants spread throughout the vast campus. Every now and then plants, trees and even herbs are planted in the various locations of the university.

7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?

Energy conservation

- The university uses solar energy for the lighting of the campus to reduce power consumption.

- Lamp posts have been fitted with solar street lamps (eight in number) throughout the vast campus so that energy can be clean, eco-friendly and conserved.

- Cost-effective and energy-efficient LED lights have been fitted on street lamps inside the university campus.

- Eco-friendly generators have been installed in the campus for production and supply of electricity during current cuts.

- All buildings in the campus are built spacious and have adequate ventilation for natural lighting. Therefore energy consumption is minimal for lighting during day time inside the campus.

- Energy conservation is also achieved by the using of lights and electrical appliances only when needed.

- **Swoch Bharat Abhiyan - Clean India Programme**

  The university has plans to implement Prime Minister's **Clean India Programme** with the aim of involving the staff and students in a collective effort to make the university premises and the neighbouring villages of **Kumaracoil, Brammapuram and Thenkarai** cleaner and environmentally safer. The NSS

Unit Team of the university headed by Dr.M.Murugan, NSS Programme Co-ordinator, and the NSS UNITS 1, 2, 3, 4, 5 have the proposed plan for 'Clean India' programme to be implemented on **2 October 2015** on Gandhi Jeyanthi Day and Clean India Day declared by the government of India. This move will definitely add the environment consciousness initiatives of the university intended to keep the surroundings clean and tidy.

Renewable Energy

- The university has started taking initiatives to conserve energy by resorting to renewable energy sources and is now gradually attempting to exploit solar energy.

- 10 KW Solar Photovoltaic Energy Production System has been installed in the Marine Hostel of the university to provide power to the hostel. Such uses of alternative sources of generating power help in overcoming the power crisis.

Water Harvesting

- Water harvesting measures have been taken by the University for keeping the ground water level safe, in spite of the fact that the university campus is situated on the foothills of the Veli Mountains and receives abundant rainfalls every year. Water harvesting pits have been dug with inlets from building roofs and conservation methods have been effected in many blocks of the university.

- Three ponds have been constructed in the university premises, two in the premises of the Boys Hostels, and one in the neighborhood of the Boys Hostels campus ,but yet outside of it, in the land owned by the university to conserve water and to increase ground water level in the vicinity of the university.

- The two ponds inside the premises of the Boys Hostels cover one and half acres of land each and the one outside the premises of the Boys Hostels covers an area of two acres in width and breath.

Check Dam Construction – No

Efforts for Carbon neutrality

- The university maintains planting of decorative and other useful plants and herbs in all the areas of the campus. Great importance is given to the maintenance and enhancement of the greenery of the campus and thereby it takes efforts to ensure carbon neutrality in the campus.

- The campus is kept smoke–free.

- Old print-outs are used as note paper.

- Department notices and information are largely sent via email/SMS to all staff members. This reduces usage of paper in the campus.

- Restriction is in force in the use of air conditioners to reduce the greenhouse gases along with CO_2. Traditional A.C. machines have largely been replaced by modern eco-friendly split Air Conditioners in the campus.

- Use of plastic carry bags and cups is strongly discouraged inside and outside the campus.

Plantation

- Coconut, jack fruit and mango plantations are part and parcel of the university campus. Many department buildings of the university are surrounded by mango, jack fruit and coconut groves adding to the greenery of the campus. They yield fruits and coconut which are largely used for the university hostels.

E-Waste Management

- All condemned computers and other electronic gadgets (old computers, printers, electronics components) are regularly sold to nearby vendors by the university. And the vendors are also instructed to dispose them off without causing pollution to the earth and human beings in and around.

7.2 Innovations

Add details of two patents

The university has been striving to introduce innovations in its campus to improve facilities made available to the staff and students.

- **PATENTS**

  The university has filed for and got patent rights for two innovative devices, one for providing vision to the sightless, and the other for tracking the sun for solar energy. The two patents granted by the government of India vouch for the inventions of the university meant for the benefit of humanity.

Patent -1

Artificial Vision Implant Device for making the blind people see this world and bringing light to their dark life.

Patent No: 251549

Date of Grant: 02/07/2006

Inventor: Dr.N.Chandrasekhar, Pro-Vice Chancellor, Noorul Islam University

Patent -2

Sun Tracker Device (STD) STD has a rotating solar mount fixed with arrays of solar energy converters. The device is designed such a manner that solar cells on the rotating solar mount will be always directly face the sun to receive maximum solar energy per unit area of the arrays for 10 hours in a day. The solar mount is solely driven by gravity using hydrostatic force for tracking the sun. The Intellectual Property India (IP), Govt. of India has granted patent (No: 251549, Dated: July, 2012) to this invention. Inventor: Dr. N.Chandrashekhar Assignee: Noorul Islam University

- General Insurance for Mediclaim for all the staff of the university.
- The university strives to incorporate New Aspects into its curricula.
- Wi-Fi Campus. 24x7 Wi-Fi Connectivity to all staff and students enabling them to access internet anytime anywhere in the campus.
- Ten percentage (10%) flexibility made available in the PG syllabi of the different courses of the university for the inclusion of recent developments in a field of study by teachers concerned to keep the students ahead of knowledge and skills.

Nano Satellite

- Noorul Islam University has the innovative plan to launch its own satellite with the support and technical assistance from ISRO, Government of India. The proposed satellite will be used for agricultural applications and also higher education. NIUSAT is a Nano satellite designed and developed by Noorul Islam Centre for Higher Education (Noorul Islam University) with a Miniature Wide Field Sensor (MWiFS) for agriculture and disaster management support applications. The images from the NIUSAT will be used for identifying potential agricultural diseases of the crops around Kanya Kumari District and providing timely assistance to the Disaster Management Support (DMS) Programme to address disasters due to flood, cyclone, drought, forest fire, landslide and earthquake. Nano satellite project, a Noorul Islam University program, involving

students and staff of the university, makes use of the state-of-the art proven technologies and modules.

- The creation of the Clean Room and Ground Station in the Nano Satellite Centre of the university at great costs that include expenditure of crores of rupees speaks for the commitment of the university in launching the satellite for the common good of humanity.

- ICT enabled teaching learning and provision for and use of smart class rooms.

- Reporting of all academic performances of students immediately through SMS to the parents and guardians immediately.

- Preparation of Question Answer Banks and making them available to students through the Digital Knowledge Centre of the university for enhancing their performance in examinations.

- Creation and maintenance of learning CDs in departments meant for facilitating and enhancing students' understanding of subjects.

- The NPTEL courses and NPTEL video lectures have been made available for the faculty and students in the Digital Knowledge Centre.

- Foreign languages French, German and Japanese being taught to the students of the university built into timetable and free of cost.

- Soft Skills Programmes like Career Skills and Presentation Skills, Software Skills and Aptitude Skills being imparted through class hours inbuilt into timetable.

- Regular Two-week Training Progrmmes organized by the university for teachers of the university, especially for the newly appointed, and training given to them by external experts from other institutions.

Medical Check–Up Camps

- Medical Check-up for the students and staff of the university organized regularly by the Department of Biomedical Engineering in collaboration with the reputed and leading sister concern in the medical field NIMS Hospital (Noorul Islam Institute of Medical Sciences), Neyyattikara, Kerala, to provide good health care to all in the university campus.

- Operation of Yoga Centres in both the Boys and Girls Hostels with male and female Yoga Masters to keep the body and mind of the students hale and healthy through the practice of yoga, and to make them enjoy freshness of feeling and goodness of health with yoga.

- Organizing of Blood Donation Camps in the campus every year for the needy and for the emergency cases and also to inculcate the worthiness of blood Donation in the young minds of students and the mentoring minds of staff.

- Workforce Preparation through career guidance to students which is interlaced with career oriented programmes for better placements. The Career Guidance Cell of the university and Departments organize such programmes to promote confidence level of the students and set definite goals for obtaining better career prospects.

- Career Guidance to First Generation Graduates who lack ideas about selection processes with regard to available career options and prospects through the Career Guidance Cell of the university. First Generation Graduates have benefitted from this guidance in securing jobs.

7.3 BEST PRACTICES

Practice-I

1. **Title of the Practice:**
   University Automation System and Web Portal with facility for on-line entry and delivery of student details.

2. **Objective of the Practice:**
   The main objective of the automation system is to facilitate all administrative and academic details regarding the students, their study, progress and academic performances in a transparent manner to the parents and students and staff to achieve greater success.

3. **The Context:**
   Noorul Islam Centre For Higher Education is a Deemed-to-be University that gives primary importance to the overall development and performance of the students enrolled. In this context, the matter of utmost importance is transparency in the affairs of an enrolled student and giving him or her all details of performance, progress and prospects without any delay and secrecy and also without any hardship encountered by the stakeholders. Conveying all details of study related matters to them on time in a prompt, effective manner and through modern communicative technology becomes imperative. Keeping itself abreast of latest technology which even the

student prefers, the university has created the Automation System that enables prompt and timely entry and delivery of all student details. It opens up immediate access to such details by all staff and stake holders.

4. **The Practice:**

The Automation System has been designed with the sole objective of providing all appropriate and relevant information regarding students and scholars and as required by different stakeholders. The university is successful in the dissemination of information to stakeholders as evidenced from the availability of all student details through university automation system. Availability of information like academic details of a student, and entry of university test marks, assignment marks internal and project marks in the automations ensures prompt execution of the job as well.

5. **Evidence of Success:**

The major advantage of this Automation and Website is the entry and delivery of relevant and required information on time and with promptness and the availability of this relevant information to the students and scholars on time and on demand. The system has obliterated any possibility for delay in the availability of such information to the students.

6. **Problems Encountered and Resources Identified:**

The automation system has much facilitated the timely recording of all student s' academic related matters. The facility is working effectively and successfully and staff, students and scholars get their access to necessary information on time and on need and as required. It has also reduced much running from pillar to post for details and also saves time and energy otherwise involved in the search for such details. More additional features can be added in future to the automation to cover any other hitherto unexplored areas of entry and delivery of student details and making them available immediately to the stakeholders.

Practice - II

1. **Title of the practice:**

External Examination System

2. **Objective of the Practice:**

The main objective of the practice is to create and operate a trustworthy and fair and balanced examination system that will maintain the credibility of the examination system of the university. Establishing standards in the conduct of

examinations of the university and maintaining confidentiality and fairness in preparation and evaluation are the two goals set for the examination system.

3. The Context:

The Noorul Islam Centre for Higher Education, being a deemed to–be university, wants to have a fair and reliable examination system and therefore to establish and gain trust of the stakeholders**.** Any examination system should be free of foul plays and also should be fool-proof against any such occurrences. Therefore the context of the examination system assumes greater importance and should have relevant and credible practices.

4. The Practice:

The end semester examinations are held timely and on regular schedules. The university has external question paper setting to 100%. The question paper setters are appointed from other universities and other reputed colleges and institutions based on the recommendations of the Boards of Studies. Evaluation is also done by 50% external examiners from other reputed universities and colleges. This practice brings fairness to the whole examination system and ensures good results.

The university semester examination results are published within 20 (twenty) days from the date of the last examination held and it is the regular practice strenuously followed. This enables the students and scholars to apply for higher studies and for jobs immediately and well before deadlines pass by. Supplementary Examinations for final year students having arrears are also conducted regularly and within a short period of time after the publication of University Examination Results so that such students need not waste or lose a year to get declared a passed out student or scholar.

5. Evidence of Success:

The system has proved to be very successful on its own merit of being on par with State-run Universities. Fairness is maintained in question paper setting and the evaluation process. So far no scope for any kind of any undesired matters to occur and the results are also heartening. The examination system is well-received and there is never any charge about any unfair means or bias in favour of any of the preparations and the evaluations of examination process and the results declared. External examination system has helped maintain the confidentiality, impartiality and fairness of the system.

6. Problems Encountered and Resources Identified:

External question paper setting and evaluation process go well and as such no difficulty is encountered so far in actualizing the system. There is total secrecy, fairness and objectivity in the examination system. There are no significant problems encountered in executing this practice. The outcome of this practice proves only to be good.

Department Evaluative Report

Department of Aeronautical Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Aeronautical Engineering
Evaluative Report

1. **Name of the Department** : Aeronautical Engineering

2. **Year of establishment** : April 2004

3. **Is the Department part of a School/Faculty of the university?**
   Yes (Faculty of Aeronautical Engineering)

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**
   U.G – B.E Aeronautical Engineering
   P.G – M.E Aeronautical Engineering
   Ph.D – Aeronautical Engineering

5. **Interdisciplinary programmes and departments involved :**
   - Aerospace Engineering
   - Mechanical Engineering
   - Electrical Engineering
   - Electronics and Communication Engineering
   - Mathematics

Sl. No	Interdisciplinary Course Offered	Name of the Department Involved
1	Engineering Mathematics III for S3 BE Numerical Method for S4 BE Applied Mathematics for S3 ME (Aero)	Department of Mathematics
2	Fluid Mechanics & Machinery for S3 BE Fluid Mechanics & Machinery Lab for S3 BE Thermal & Heat transfer Lab for S3 BE Manufacturing Technology -1 for S4 BE Manufacturing Technology lab -1 for S4 BE	Department of mechanical Engineering
3	Principles of Management for S7 BE Professional and Business Ethics for S5 BE	Department of Management Studies
4	Environmental Science for S4 BE Navigation & Guidance Lab for S6 BE	Department of Electronics and Communication Engineering
5	Control Engineering for S6 BE	Department of Electrical & Electronics Engineering
6	Cyber Security for S6 BE	Department of Information Technology
7	Finite Element Analysis for S7 BE	Department of Aerospace Engineering

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

- Anna University (Academic Program Development)
- ISRO (Academic Program Development)
- Taneja Aerospace & Aviation Ltd,Hosur
- Acumen Aviation,Bangalore
- Altran India,Bangalore
- CADES Digitech,Bangalore
- Honeywell Aerospace,chennai

7. Details of programmes discontinued, if any, with reasons :-

Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester- Choice Based Credit System

9. Participation of the department in the courses offered by other departments:

Aerospace Engineering

Sl.no	Name of the courses handled for other departments	Name of the other department
2.	AS201 – Finite Element Analysis	Aerospace Engineering
3.	AE1210 – Flight Dynamics	Aerospace Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Category	**Sanctioned**	**Filled**	**Actual(including CAS & MPS)**
Professor	2	2	2
Associate Professor	3	3	3
Asst.Professor	7	7	7
Others (Tech.Asst.)	4	4	4

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D./ M.Phil. students guided for the last 4 Years**

Dr.R.C.Mehta	BE.,MS., Ph.D.	Professor	Aeronautical and CFD	41 years	20
Dr.D.Arumugaperumal	BE.,ME., Ph.D	Professor	CFD	6 years	10
Prof.G.Moses	BE., M.Tech.,	Professor	Propulsion	44. years	-
Mr.S.Robin Divahar	BE., ME.	Associate Professor and HOD	Propulsion	15years	-
Dr.T.Anil Kumar	BE.,ME.,Ph.D	Associate Professor	Finite element methods	10 years	-
Mr.J.Saji Soundara raj	BE., ME., ME	Associate professor	Design Engineering	22 years	-
Mr.R.R.Neela Rajan	BE., ME.	Associate professor	Design Engineering	10 years	-
Mr.V.Mani shankar	BE., ME.	Assistant professor	Aeronautical Engineering	6 years	-
Mr.R.AjithRaj	BE., ME.	Assistant professor	Aeronautical Engineering	1.5 years	-
Mr.J.Inayathullah	BE., ME.	Assistant professor	Aeronautical Engineering	1 year	-
Mr.S.S.Pon Sudhir Sajan	BE., ME., MBA.	Assistant Professor	Aeronautical Engineering	4.5 years	-
Miss.M.Muthulakshmi	BE., ME.	Assistant professor	Aeronautical Engineering	0.5 year	-

Faculty associated from other departments

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 Years
Mr. V. Sunil Anand	B.E, M.E	Assistant Professor	Information Technology	2 Years	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- Prof. Vijayan Baburaj ME.,Ph.D
  Has conducted CFD subject to 2007 to 2011 BE batch students at seventh semester and visited university on alternative days.
- Prof.Sundaresan ME
  Has conducted aircraft structures subject 2011 to 2013 ME – Aeronautical Students at first semester and visited university on alternative days.

13. Percentage of classes taken by temporary faculty – programme-wise information :

- Mr.M.Haniber Ben BE., ME. (Research Scholar) has deputed to conduct Engineering Materials and metallurgy subject for S3 BE Aeronautical students during 2014-2015 academic year.
- Percentage of classes taken by temporary faculty to permanent faculty during odd semester of academic year 2014-2015 = 1/25 = 4 %

14. Programme-wise Student Teacher Ratio :

(For Academic year 2014-2015)

Sl.No	Name of the Programme	Student -Teacher ratio
1	BE-Aeronautical Engineering	**15 : 1**
2	ME-Aeronautical Engineering	**12 : 1**

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :-

Academic support staff(technical)			**Administrative staff**		
Actual	**filled**	**sanctioned**	**actual**	**Filled**	**Sanctioned**
4	4	4	1	1	1
Details: Mr. Mohan Mr. Ratheesh Kumar Mr. Jacqueline Mr. Ramasubramonian			Details: Mrs.Manju		

16. Research thrust areas as recognized by major funding agencies :-

- High speed heat transfer
  1. Hydrodynamic study of heat flow
  2. Heat transfer at the nose of High-speed missiles
  3. Aerodynamic heating
  4. Survey on the heat transfer at high speeds
- Hypersonic aerodynamics
  1. Elements of hypersonic flow
  2. Study of hypersonic lifting vehicle
  3. Rarefaction effects in hypersonic Aerodynamics
  4. Approximate similitude laws in hypersonic aerodynamics.

- Computational Fluid dynamics
    1. Grid Generation
    2. Discretization
    3. Finite Element Techniques
    4. Finite volume techniques

Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

Sl.No	Title of the Project	Name of Principal Investigator	Name of the funding agency and year	Grant received (Rs. in Lakhs)
1	"Computational fluid dynamics analysis of ejector-diffuser system used for testing of rocket engines in low pressure environment"	Dr. R.C. Mehta	ISRO HEADQUATERS, Department of Space, Government of India. 2010	2 Lakhs

17. Inter-institutional collaborative projects and associated grants received:

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with

- State recognition
- National recognition
- International recognition

Sl.No	Name of the research / Centre	Type of recognition
1	Bulkhead Pvt. Ltd. Kochin	National
2	Milan Infotech, Bangalore	National
3	Millennium Aerospace pvt ltd, Coimbatore	State
4	SandRiver Technologies, Mumbai	National
5	Imperial research centre for aeronautics, Imperial college, london	International

21. Special research laboratories sponsored by / created by industry or corporate bodies:

Sl. No	Name of the special laboratories sponsored	Sponsoring agency (Industry / Corporate Body)
1	Aero structure Lab ,Bangalore	Calsoft Labs Pvt.Ltd
2	CFD Lab, Pune	Zeus Numerix pvt.Ltd
3	Infotech solution Lab for aviation industry,Mumbai	W.H. Brady & Co. Ltd. , Mumbai

22. Publications :

Sl. No.	Author, Title of the Paper	Vol No., Page No., Year	Name of the Journal	Impact factor
1	Raman Kalimuthu, Ethirajan Rathakrishnan and Rakhab C. Mehta, Experimental Investigation of Hypersonic Flow over Spiked Blunt Body	***ISBN-10:*** *384844256 6,* 2012.	Lambert Academic Publishing, Germany	
2	R. C. Mehta Numerical and Experimental Investigations of Fluid Dynamics of High Speed Flows,	pp. 429 – 468. ISBN 978-1-61728-264-5 (E-Book) 2010	Nova Science Publishers, Inc. New York, USA,	
3.	R.R.Neelarajan ,R.Rajesh Extraction of Alternative fuel from Mahua oil for Internal Combustion Engine using Taguchi Method	ISSN 0973-4562 Volume 10.number 8 (2015)]	International Journal of applied engineering research	
4.	R.R.Neelarajan R.Rajesh Development of mathematical model for the transesterification of jatropha oil using response surface methodology.	ISSN 0973-4562 Volume 10.number 8 (2015)	International Journal of applied engineering research	
5.	T.Anil Kumar Finite Element Analysis of Bolted joint of flat faced flanges with metal to metal contact beyond bolt circle.	Vol:93 No:2	European journal of scientific research	1.973
6.	T.Anil Kumar A digital image analysis to evaluate delamination factor for wind turbine laminated blade	Vol;43	composite part **B ; (**Science Direct)	

7.	R.C.Mehta *G.Kumaravel* Three dimensional flow visualization studies on a typical sounding rocket model in supersonic flow	Volume 2, 2012 Issue 2	International Online Journal	
8.	R.C.Mehta and J.K.Prasad Numerical analysis of flowfields of axisymmetric supersonic free jets	Vol. 12, No. 1 April 2003	Computational Fluid dynamics Journal	
9.	R.C.Mehta Flow direction estimation based on computed and flight measured surface pressure	Vol. 12, No. 3, Oct. 2003	Computational Fluid Dynamics JOURNAL	
10.	R.C.Mehta Inverse venting problem for estimation of the discharge coefficient in a satellite launch vehicle	Part G, Vol. 217, No. 4, 2003	Journal of Aerospace Engineering	
11.	R.C.Mehta Numerical simulation of normal shock wave/turbulent boundary-layer interaction over a bump surface	Vol. 10, October 2003	Indian Journal of Engineering and Materials Sciences	
12.	R.C.Mehta, Computation of flow field over reentry capsules at supersonic Mach numbers	Vol. 13, No. 3, Oct. 2004	Computational Fluid Dynamics JOURNAL	
13.	R.C.Mehta Numerical simulation of supersonic flow past reentry capsules	Vol. 15, No. 1, March 2006	Shock Waves journal	
14.	R.C.Mehta, Numerical computation of heat transfer on reentry capsules at Mach 5	Vol. 58, No. 3, Aug. 2006	Journal of Aerospace Sciences and Technologies	

15.	R.C.Mehta, Computational investigation of flow oscillation over reentry capsules	Vol. 15, No. 2, July 2006	Computational Fluid Dynamics JOURNAL	
16.	R.C.Mehta, Transonic flow computation over a heat shield using three dimensional finite element method	Vol. 59, No. 1, Feb. 2007	Journal of Aerospace Sciences and Technologies	
17.	R.C.Mehta, Analytical solution for venting from a time-dependent cavity volume	Vol. 221, Part G, 2007	Journal of Aerospace Engineering	
18.	R.C.Mehta and S.B.Tiwari, Controlled random search technique for estimation of convective heat transfer coefficient	Vol. 43, 2007	Heat and Mass Transfer Journal	
19.	R. C. Mehta, Quasi-one-dimensional numerical analysis of payload venting of satellite launch vehicle	Vol. 45, No. 2	Journal of Spacecraft and Rockets	
20.	R. Kalimuthu, R. C. Mehta, and E. Rathakrishnan Experimental investigation on spiked body in hypersonic flow	Vol. 112, No. 136	The Aeronautical Journal of the Royal Aeronautical Society	
21.	R. C. Mehta Computations of flow field over Apollo and OREX reentry modules at high speed	Vol. 15, Dec. 2008	Indian Journal of Engineering and Materials Sciences	
22.	R. C. Mehta and S. B. Tiwari Comparative studies of aerodynamic drag using inviscid flow computation and Newtonian method at high speed	Vol. 60, No. 1	Journal of Aerospace Sciences and Technologies	
23.	R. C. Mehta, Numerical study of flow field visualizations over payload shroud at transonic speeds	Vol.223 , 2009	Journal of Aerospace Engineering	

24.	R. C. Mehta, Numerical simulation of depressurization in multi-compartments	Vol. 17 No. 3, 2009	Computational Fluid Dynamics JOURNAL	
25.	R. Kalimuthu, R. C. Mehta, and E. Rathakrishnan, Drag Reduction for spiked attached to blunt-nosed body at Mach 6	Vol. 47, No. 1, 2013	Journal of Spacecraft and Rockets	
26.	R. C. Mehta, Flow field simulation over reentry modules at high speed	Vol. 62, No.1, 2013	Journal of Aerospace Sciences and Technologies	
27.	R.C.Mehta Numerical Heat transfer study around a spiked blunt nose body at mach number 6	Vol.49., No.4, 2013	Springer (Heat and Mass transfer)	
28.	R.C Mehta Influence of Geometrical Parameters of heat shield on flow characteristics at transonic mach	Vol.6., No.4, 2013	International Review of Aerospace Engineering	
29.	R.C.Mehta and G.Natarajan Numerical Simulation of supersonic exhaust diffuser at various operating conditions	Vol.66., No.3, 2014	Journal of Aerospace science and technology	
30.	R.C.Mehta and E.Radha Krishnan Pressure measurement overall hemisphere cylinder body attached with the forward facing spike	Vol.117., No.1192, 2013	The Aeronautical journal of royal aeronautical society	

23. **Details of patents and income generated :**

Nil

24. **Areas of consultancy and income generated** :

Sl. No	Name of the faculty member	Areas of consultancy carried out	Income generated (Rs. in Lakhs)
1	Prof.S.Robin Divahar	Reverse logistics	0.5
2	Prof.G.Moses	Advanced propulsion units	7.5
3	Prof.T.Anil Kumar	Finite Element Methods	2.2

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Name of the Faculty	Visited Institute in abroad
Dr.R.C.Mehta	Senior Fellow, School of Mechanical & Aerospace Engineering Nanyang Technological University, Singapore

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Sl. No	Name of the Faculty member	Details of National / International committee served	Details of Editorial Board served	Any other committee
1	Dr.R.C.Mehta	-	CFD journal, Japanese Society of CFD	-

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :**

Refresh course / Programme Name	Conducted by (our organization / other organization name)	Period /Date	Name of the staff attended	Role of the staff (participant/resource person)	Number of Participants
Recent trends in structural Engg	Department of Aeronautical ,NI university	22nd June to 5th July,2009	Mr.J.Saji Soundara Raj Mr.V.Antony Vincent Mr.R.R.Neela Rajan	Resource person Mr.Nalanthan AP/Civil Dept	67
Industry Expectations	Centre for University and Industry Collaboration	15th and 16th July 2009	Mr.J.Saji Soundara raj Mr.V.Antony Vincent	Anna University officials , Chennai	122
Applied Aerodynamics and Design of Aerospace	ADA at Bangalore	10th December	Mr.J.Saji Soundara raj	ADA ,CSIR,NAL officials	--

vehicles organized by CSIR and NAL		2009			
Short term training program on "Robotics and Robot Applications"	IIT Madras	21st to 26th June 2010	Mr.J.Satheesh	IIT senior lectures	---
Building and Flying Micro Air Vehicles	Jain university Bangalore	3rd and 4th September 2010	Prof.G.Moses Prof.S.Robin Divahar	Jain University Senior lectures	---
International Air show organized by DRDO.	ADA at Bangalore	9th and 10th February 2011	Prof.G.Moses Prof.S.Robin Divahar	DRDO officials	---
Advanced concepts and techniques in engineering design	Department of Mechanical Engineering, GCE, Tirunelveli	27th May to 8th June, 2013 (2 weeks	Mr.Saji Soundara Raj	All India council for technical Education	---
Aero Modeling	ENR Aircraft Models. Bangalore	22nd June to 27th June,2013	Mr.S.S.Pon Sudhir Sajan	Prof.Guru. Chairman ENR Aircraft Models	4
FDP about Stress Management of Teaching Staffs	NIU	20-7-2014	Mr.S.S.Pon Sudhir Sajan Mr.J.Inayathulla Miss.Stefaniyaa Mr.Ajith Raj	Prof.Susee Roberts Founder Entrepreneurship Development Agency,Madras	35

28. Student projects :

- ❖ percentage of students who have done in-house projects including inter-departmental projects

Sl.No	Batch	Total no of Students	In-house projects done	Percentage
1.	2011 - 2015	58	54	93.10
2.	2010 - 2014	61	58	95.08
3.	2009 – 2013	39	27	69.23
4.	2008 – 2012	67	56	83.58
5.	2007 - 2011	62	26	41.94

- ❖ percentage of students doing projects in collaboration with other universities / industry / institute

Sl.No	Batch	Total no of Students	Projects in collaboration with other universities /industry / institute	Percentage
1.	2011 - 2015	58	4	6.90
2.	2010 - 2014	61	3	4.92
3.	2009 – 2013	39	12	30.77
4.	2008 – 2012	67	11	16.42
5.	2007 - 2011	62	36	58.06

29. Awards / recognitions received at the national and international level by Faculty:-

Sl. No.	Name of the staff	Designation	National/ International	Details of awards or recognition
1.	Dr. R.C.Mehta	Professor	International	Senior fellow, Nanyang technological university, Singapore.
2.	Dr. R.C.Mehta	Professor	International	25 years senior member recognition certificate from American Institute of Aeronautics & Astronautics.
3.	Dr. R.C.Mehta	Professor	International	Life time achievement award, Flow physics society, India.

Doctoral / post doctoral fellows :-

Sl. No.	Name of the fellows	Designation	National/ International	Details of awards or recognition
1.	Dr.T.Annil Kumar	Associate professor	-	Got Ph.D from Anna university, Chennai in April 2014.

Students :-

Sl. No.	Name of the Student	Batch	National/ International	Details of awards or recognition
1.	K.Dasarath Singh	2004-2008	National	He acquired university fourth rank which the examination conducted by Anna University, Chennai
2.	D.Kirthika	2007-2011	National	She acquired university second rank which the examination conducted by Anna University.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:-

Name of the Workshop/Seminar/Conference	Period / Date	No. of Participants	External Experts / Resource person Name / address/talk details
Symposium Aviators 2k09	25th March 2009	85	External Expert Dr.M.Muslim Associate Director, Mahendiragiri LPSC/ISRO. Resource Persons: Dr.Balu Dept of Aeronautical,NIU Prof.S.Robin Divahar HOD,Dept of Aeronautical,NIU Talk details. Propulsive units Unmanned vehicls
Symposium with workshop : Aviators 2k11	23rd March	65	Dr.N.Sundararajan Emeritus Professor, Singapore University, Resource Persons: Prof.N.Sugathan Dept of Aeronautical,NIU Prof.G.Moses Dept of Aeronautical,NIU

Symposium Aviators 2k12 -	26th March	43	External Expert: Dr.S.Ingersol Group Head ,Quality Assurance LPSC,ISRO ,Mahendiragiri. Resource Person Dr.R.C.Mehta Profeesor ,Dept of Aeronautical,NIU Prof.G.Moses Profeesor ,Dept of Aeronautical,NIU Talk Details: Emerging Trends in Aero Modeling Flight Simulation
AERO MODELLING Workshop organized by Barola Aero Sports and Department of Aeronautical	August 2011	25	Officials from Barola Aero Sports Talk Details Design and Fabrication Involved in Aeromodelling.
NCAA'13	1st and 2nd March 2013	82	External Expert : Shri.S.Pandian Project Director ,VSSC,ISRO Resource persons DR.R.C.Mehta Dean ,school of Interdisciplinary studies. Prof.M.Sundaresan Former Deputy Director, Liquid propulsion stages Dr.Ranjan Das , Assistant Professor,IIT Ropar,Punjab Dr.M.Gunasekaran,SSN College of Engg,Chennai Dr.Arumuga Perumal Proffessor,Aeronautical Dept,NI university Talk details The Discussion and Guidelines mainly includes: 1. CFD 2. Propulsion 3. Heat transfer 4. Aerodynamics 5. Space Vehicles

AERO MODELLING organized by Millennium Aero Sports	August 2012	45	Talk Details Emerging Trends in Fabricating composite lightweight based Aeromodelling.
Symposium with workshop Aviators 2k14	19th and 20th March 2014	31	External Expert Dr.Louis Titus Deputy General Manager LPS (ISRO – Mahendiragiri) Internal Expert Dr.R.Balu Dean, School of Mechanical Engineering, Resource Person Dr.R.C.Mehta Dr.T.Annil Kumar Professors,NIU Talk Details Emerging trends in CFD and Finite Elements Method

31. Code of ethics for research followed by the departments :

Importance of the Code

The University gives particularly high priority to research as one of its most important contributions to society and to the international community. In this, the University pursues a research ethos that promotes exceptional expertise as well as ethical responsibility in the quest for knowledge and the development, conservation and transfer of such knowledge. Consequently, all members of staff and students of the University are required always to strive for the highest standards of excellence and morality in any research activities. The Code of Ethics for Research serves as an important guideline to inspire researchers at to maintain high ethical standards in all research activities at the University.

Focus of the Code

The Code identifies key values characterising the ethos which the University pursues. In doing so, it highlights the rights and responsibilities of researchers that should apply in the various relationships they will encounter within the research environment. It also highlights the endeavours to eliminate unacceptable practices within the research milieu, such as abuse of power within the study guidance environment, discrimination and sexual harassment.

Key values

In particular, the following basic rights of researchers are recognised and promoted as far as possible with a view to creating an environment where research can flourish and high

Quality research outputs can be promoted:

- Academic freedom
- The availability of a caring research environment with efficient policies, management, structures, support services and programmes to promote research
- The use of the University's facilities, services and resources for research.

32. Student profile programme-wise

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.E (Aeronautical Engineeing) 2009-2010	82	35	4	33/35=94.29	100
B.E (Aeronautical Engineeing) 2010-2011	118	53	5	46/53=86.79	100
B.E (Aeronautical Engineeing) 2011-2012	123	52	9	50/52=96.15	100
B.E (Aeronautical Engineering) 2012-2013	102	42	5	---	---
B.E (Aeronautical Engineering) 2013-2014	47	21	3	---	---
B.E (Aeronautical Engineering) 2014-2015	33	12	3	---	---
M.E (Aeronautical Engineeing) 2011-2012	12	6	1	5/6 =83.33	100
M.E (Aeronautical Engineeing) 2012-2013	13	9	-	100	-
M.E (Aeronautical Engineeing) 2013-2014	10	2	-	100	-
M.E (Aeronautical Engineering) 2014-2015	13	3	1	---	---

33. **Diversity of students:**

Name of the Programme (refer to question no. 4)	% of Students from the same university	% of Students from other universities within the State	% of Students from universities outside the State	% of Students from other countries
B.E(Aeronautical Engineering)	53.57 (Aerospace)	Nil	Nil	Nil
B.E(Aeronautical Engineering)	100 (Avionics)	Nil	Nil	Nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

Sl.No.	Name of the student	Year	Category	Total
1.	S. Andrew Vinoj	2008-2012	Civil services	1
2.	K.Dasarath Singh	2004-2008	Defence services	1
3.	R. Rajasekhar	2007-2011	GATE	1
3.	Shena Sagaria	2009-2013	GATE	1

35. Student progression :

Student progression	Percentage against enrolled
UG to PG	15
PG to M.Phil.	0
PG to Ph.D.	0
Ph.D. to Post-Doctoral	0
Employed	50
Campus selection	0
Other than campus recruitment	20
Entrepreneurs	10

36. **Diversity of Staff:**

Percentage of faculty who are graduates	
of the same university	7
from other universities within the State	3
from universities from other States from	2
universities outside the country	0

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Dr.T.Annil Kumar

38. Present details of departmental infrastructural facilities with regard to

a. Library - 1
b. Internet facilities for staff and students – Wi-Fi connection to all those who have registered.
c. Class rooms with ICT facility - 1
d. Students' laboratories - 3
e. Research laboratories – NIL

39. List of doctoral, post-doctoral students and Research Associates :-

a) from the host institution/university - 1
b) from other institutions/universities - 0

40. Number of post graduate students getting financial assistance from the university:

NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Board of Study meeting is conducted before the development of new programme. Suggestions from internal and external faculties are considered. The finalised regulations, curriculum and syllabus are implemented by the Academic council upon the recommendation of the Board of Study team

42. Does the department obtain feedback from :-

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
Yes. The department utilize the feedback from faculty on curriculum as well as teaching-learning evaluation during the construction of new regulations, syllabus and programmes.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Yes. The feedback from students on staff, curriculum and teaching-learning-evaluation is obtained on regular basis, once in each semester. The report is helpful in scrutinizing the efficiency of faculty, practical difficulties the faculty face in handling the subjects which will forwarded to the Academic affairs.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?
Yes. The feedback from the alumni and employers is helpful in reducing the wide gap between educational institution and the industry. The students are informed about the qualities which market expects from them and areas of promising future growth so that they can excel themselves before entering the industrial atmosphere.

43. List the distinguished alumni of the department (maximum 10) :

Sl. No.	Name of the distinguished alumni	Details of workplace
1	Haroon Rashid	ISRO
2	Lebonah	ISRO
3	Rojan Doss	ADA
4	Dasarath Singh	INDIAN AIR FORCE
5	Anbalagan R	Air Malaysia
6	Richard Pradeep	AIRBUS
7	Thomas Arun Kumar	AIRBUS

8	Syed Kasim Razvi	DGCA
9	Arun Kumar	NAL
10	Kirthika	TCS

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Sl. No.	Title of the special lecture / workshop /seminar organized	Details of the external expert
1	Aviators 2k09 Propulsive units	Dr. M. Muslim, ISRO.
2	Aviators 2k11 Design and Fabrication Involved in Aeromodelling.	Dr.N.Sundararajan, Singapore University
3	Aviators 2k12 The Discussion in followings 1. CFD 2. Propulsion 3. Heat transfer 4. Aerodynamics 5. Space Vehicles	Dr.S.Ingersol, ISRO
4	NCAAA'13 Emerging Trends in Fabricating composite lightweight based Aeromodelling.	Shri.S.Pandian, ISRO
5	Aviators 2k14 Emerging trends in CFD and Finite Elements Method	Dr. Louis Titus, ISRO.

45. List the teaching methods adopted by the faculty for different programmes :-

- Industrial visit ,
- Tutorials,
- Seminars,
- Special Classes,
- Smart class room teaching,
- Internet enabled class room teaching,
- OHP,
- Visual aids,
- NPTEL materials
- Guest Lectures.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Course committee, programme committee, and class committee is conducted three times in a semester. All faculties engaging classes for the particular batch and ten students from each batch do participate in the meet. Any turbulences in academic progress are discussed. The committee ensures the programme objectives are constantly met and learning outcomes are reported to The Director, Academic affairs periodically.

47. Highlight the participation of students and faculty in extension activities.

- **Participation of faculty**

Name	Role
Prof. Mehta	➢ Dean of Aeronautics & Aerospace science ➢ Member of academic council ➢ Doctoral committee member
Prof. Annil Kumar	➢ Additional member in project steering group in NIUSAT ➢ Doctoral committee member ➢ ISO internal auditing
Prof. Moses	➢ Associate director of NIUSAT
Prof. Robin Divahar	➢ Member of academic council

- **Participation of students**
  Workshop / Conference / Symposium / Exhibition

Name	Event	WORKSHOP / CONFERENCE / SYMPOSIUM	Institution
Unnikrishnan S S	Debate	EXPINS 2K13 5th& 6th November 2011	Noorul Islam University
Akhil Kumar A	Aerobotics	SHASTRA 2011	IIT Madras
Subramanian M	Aerobotics	SHASTRA 2011	IIT Madras
S Junaidh	Aerobotics	SHASTRA 2011	IIT Madras
M Sindhiya	Paper presentation	ASTRONZ'11 28th – 30th September 2011	Sathyam College of Engineering & Technology
Durga Manju	Paper presentation	ASTRONZ'11 28th – 30th September 2011	Sathyam College of Engineering & Technology
Subramanian M	Project design contest	FUTURA 2011 8th -10th September 2011	Bannari Amman Institute of Technology

S Junaidh	Project design contest	FUTURA 2011 8th -10th September 2011	Bannari Amman Institute of Technology
S Junaidh	Paper presentation	SHOCKSERONZ 2K11	Hindustan College of Engineering and Technology
P Ashok	Quiz	SKYANZ T11 11th March 2011	Lord Jegannath College of Engineering &Technology
T Ashok	Paper planes, CAD modeling, Quiz word, Pirates bay, Flight simulation	SKYANZ T11 11th March 2011	Lord Jegannath College of Engineering & Technology
Thirupparkadal P	CAD modelling	SKYANZ T11 11th March 2011	Lord Jegannath College of Engineering & Technology
R Chathyan	Quiz	SKYANZ T11 11th March 2011	Lord Jegannath College of Engineering & Technology
R Chathyan	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
G Monoj	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
Prem Kumar C	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
Karthick Balamurugan	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
P Thirupparkadal	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
M N Sandeep	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
P Vivek	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
J B George Jenifer	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
A Jaya Vignesh	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology

T Ashok	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
D Arunachalam	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
R Anbalagan	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
M Gowthaman	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
S Balu Samy	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
S Palaniappan	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
G Senthati Raja	One day workshop on ornithopter	FLIEGEN 11 22nd February 2011	Park College of Engineering & Technology
Pravin Kumar D	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Prem Kumar G	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Michael Felix A	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Manoj G	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Venkatesh N	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Quadri Faraz	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Rincy Nazeer	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Roshna A	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Andrew Vinoj S	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology

Christal K	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Janet V	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Joseph Sachin Dass.I	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Senthati Raja G	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Palaniappan S	Aeromodelling	AEROFETE 25th& 26th February 2011	Hindustan Institute of Technology
Ananthapuri S A	Parachute designing	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Harith R	Parachute designing	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
S Mathan	Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
M Uma	Flight Simulation	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
M Sundara Mahalakshmi	Flight Simulation	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Thanseer Sherif	Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Thanseer Sherif	Paper presentation	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
S Mathan	Paper presentation	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Farzeen B K	Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Junaidh S	Paper presentation	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Mohammed Farook	Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering

Thirupparkadal P	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
George Jenifer	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Vivek P	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Jaya Vignesh A	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Ashok T	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Karthick Eswaran	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Chathyan R	RC Aeromodelling	AVIOPEX 11 18th – 20th February 2011	Infant Jesus College of Engineering
Manaf Muhammad	Paper presentation	CONJURA 11 24th – 27th February 2011	TKM College of Engineering
Thanzeer Sherif	Paper presentation	CONJURA 11 24th – 27th February 2011	TKM College of Engineering
G Senthati Raja	Paper presentation	CONJURA 11 24th – 27th February 2011	TKM College of Engineering

In-plant / Practical project training

Industry	Training	Duration	Students
Air India	Engine Overhaul Department	29th December 2010 to 28th January 2011	1. P Ajith Pandi 2. B S Midhun 3. J S Nabeel 4. S Prabhu Mani Rathinam

48. Give details of "beyond syllabus scholarly activities" of the department

a) Aero club activities being conducted in the campus on yearly basis. Students and the participants have been training in the field of aeromodelling and lucid demonstration on trainer aircraft.

b) Research colloquium meeting will be conducted in the department once in a month. All staff members are encouraged to make a

presentation in the field of the respective research work and recent advancements in the field of aeronautics in the presence of eminent personalities. So it is wonderful platform for staff members to share and gain knowledge in the recent trends of aeronautics.

c) Some specific subject's syllabus is framed in such a way to gain practical exposures from industries by making a visit.

49. State whether the programme / department is accredited / graded by other agencies? If yes, give details.

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt. of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Intra-moral courses, placement training programs, software career programs have been conducted to enhance the personality and explore the possibilities of employment opportunities in the market.

Once in a year board of studies meeting will be conducted. And experts from industries and academic institutions are invited to participate in the meet. The recent advancements in the industries and in the academic side can be explored from the meet.

51. Detail five major strengths, weakness, opportunities and challenges of the department.

Strengths

1. Highly experienced faculty members
2. Three doctoral degree holders
3. Faculties with industrial experience
4. Excellent infrastructure
5. Highly equipped laboratories
6. Internet enabled classrooms
7. Procurement of aircrafts

Challenges

1. To meet the need of Aeronautical industries
2. To meet the need of Academic side
    a. High speed heat transfer
    b. Hypersonic aerodynamics
    c. Computational fluid dynamics
3. Inculcate knowledge in the field of space technologies
4. To develop entrepreneurship and leadership quality of graduates
5. To develop social and cultural behavior of students

Opportunities

1. Employment opportunities in blue ship companies like civil aviation, defense sector, HAL, NAL, ADA. ISRO, Gov. organizations, etc.,
2. Higher studies in specialized fields in abroad.
3. Entrepreneurship activities
4. There are good numbers of foreign universities that have MOUs with the NI University which gives more opportunity to know the current research trends in various fields.
5. The University campus has got a good ambience for conducting interdisciplinary research activities.

52. Future plans of the department.

1. Software awareness and communication skills programs have to be conducted for the final and pre final year students to improve the placement opportunities.
2. Planned to arrange an industrial visit for students by the end of February 2016.
3. Planned to celebrate our department Association function on March 2016.
4. Planned to conduct National level symposium on July 2016.
5. It has been planned to conduct Project Review for the final year students in three phases. The proceeding will start from January 2016.
6. Planned to conduct BOS meeting in the first week of March 2016.
7. To enhance the quality of staff members and update recent trends in Aeronautical Engineering, it has been planned to organize workshop in the month of June 2016.
8. Taking special care about the students individually to improve their academic and discipline activities.
9. Project work will be arranged for the final year students in blue ship organizations like NAL, HAL & ISRO.
10. More books have to be added in the department library.
11. Aircraft structures lab and Propulsion lab have to be strengthened.

Department Evaluative Report

Department of Aerospace Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Aerospace Engineering
Evaluative Report

1. **Name of the Department** **:** Aerospace Engineering

2. **Year of Establishment** **:** 2009

3. **Is the Department part of a School/Faculty of the university?**
   Yes, Faculty of Aeronautical and Space Technology

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   B.E Aerospace Engineering

5. **Interdisciplinary programmes and departments involved (Aerospace Engineering)** Yes
   Regulation 2009:

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	EG101 Technical English-I	1st	English
2.	MA101 Applied Mathematics-I	1st	Mathematics
3.	PH101 Engineering Physics-I	1st	Physics
4.	CH101 Engineering Chemistry-I	1st	Chemistry
5.	ME101 Engineering Graphics	1st	Mechanical Engineering
6.	CS101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7.	CS171 Computer Practice Lab I	1st	Computer Science and Engineering
8.	PH171-Physics Lab-I	1st	Physics
9.	CH171-Chemistry Lab-I	1st	Chemistry
10.	CV171-Civil Lab	1st	Civil Engineering
11.	ME171-Mechanical Lab	1st	Mechanical Engineering
12.	ME172-Computer Aided drafting and Modeling Lab	1st	Mechanical Engineering
13.	EG102 Technical English-II	1st	English
14.	MA102 Applied Mathematics-II	1st	Mathematics
15.	PH102 Engineering Physics-II	1st	Physics

16.	CH102 Engineering Chemistry-II	1st	Chemistry
17.	ME102 Engineering Mechanics	1st	Mechanical Engineering
18.	CV101-Basic Civil Engineering	1st	Civil Engineering
19.	ME103-Basic Mechanical Engineering	1st	Mechanical Engineering
20.	EE101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering
21.	EC101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
22.	CS172 Computer Practice Lab II	1st	Computer Science and Engineering
23.	PH172-Physics Lab-II	1st	Physics
24.	CH172-Chemistry Lab-II	1st	Chemistry
25.	EE171-Electrical Lab	1st	Electrical and Electronics Engineering
26.	EC171-Electronics Lab	1st	Electronics and Communications Engineering
27.	MA201 Applied mathematics III	2nd	Mathematics
28.	AE201 Aero Engineering Thermodynamics	2nd	Aeronautical Engineering
29.	AE202 Solid Mechnics	2nd	Aeronautical Engineering
30.	EG251Career skills – I	2nd	English
31.	ME202 Fluid Mechnics and machinery	2nd	Mechanical Engineering
32.	ME 210 Engineering Materials and metallurgy	2nd	Aeronautical Engineering
33.	EG252Career Skills – II	2nd	English
34.	MS101 Environmental Science	2nd	Management Studies
35.	MA203 Numerical Methods	2nd	Mathematics
36.	AE207 Mechanics of machines	2nd	Aeronautical Engineering
37.	EG253Presentation Skills – I	3rd	English
38.	MS102 Professional and Business Ethics	3rd	Management Studies
39.	AE210 Flight Dynamics	3rd	Aeronautical Engineering

40.	AE214 Heat Transfer	3rd	Aeronautical Engineering
41.	EG254Presentation Skills – II	3rd	English
42.	MS103 Principles of Management	4th	Management Studies

Regulation 2013:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
43.	EG1101 Technical English-I	1st	English
44.	MA1101 Applied Mathematics-I	1st	Mathematics
45.	PH1101 Engineering Physics-I	1st	Physics
46.	CH1101 Engineering Chemistry-I	1st	Chemistry
47.	ME1101 Engineering Graphics	1st	Mechanical Engineering
48.	CS1101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
49.	CS1171 Computer Practice Lab I	1st	Computer Science and Engineering
50.	PH1171-Physics Lab-I	1st	Physics
51.	CH1171-Chemistry Lab-I	1st	Chemistry
52.	CV1171-Civil Lab	1st	Civil Engineering
53.	ME1171-Mechanical Lab	1st	Mechanical Engineering
54.	ME1172-Computer Aided drafting and Modeling Lab	1st	Mechanical Engineering
55.	EG1102 Technical English-II	1st	English
56.	MA1102 Applied Mathematics-II	1st	Mathematics
57.	PH1102 Engineering Physics-II	1st	Physics
58.	CH1102 Engineering Chemistry-II	1st	Chemistry
59.	ME1102 Engineering Mechanics	1st	Mechanical Engineering
60.	CV1101-Basic Civil Engineering	1st	Civil Engineering
61.	ME1103-Basic Mechanical Engineering	1st	Mechanical Engineering
62.	EE1101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering

63.	EC1101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
64.	CS1172 Computer Practice Lab II	1st	Computer Science and Engineering
65.	PH1172-Physics Lab-II	1st	Physics
66.	CH1172-Chemistry Lab-II	1st	Chemistry
67.	EE1171-Electrical Lab	1st	Electrical and Electronics Engineering
68.	EC1171-Electronics Lab	1st	Electronics and Communications Engineering
69.	MA1201 Applied mathematics III	2nd	Mathematics
70.	AE1201 Aero Engineering Thermodynamics	2nd	Aeronautical Engineering
71.	AE1202 Solid Mechnics	2nd	Aeronautical Engineering
72.	EG251Career skills – I	2nd	English
73.	ME1202 Fluid Mechnics and machinery	2nd	Mechanical Engineering
74.	ME 1210 Engineering Materials and metallurgy	2nd	Aeronautical Engineering
75.	EG252Career Skills – II	2nd	English
76.	MS1101 Environmental Science	2nd	Management Studies
77.	MA1203 Numerical Methods	2nd	Mathematics
78.	AE1207 Mechanics of machines	2nd	Aeronautical Engineering
79.	EG253Presentation Skills – I	3rd	English
80.	MS1102 Professional and Business Ethics	3rd	Management Studies
81.	AE1210 Flight Dynamics	3rd	Aeronautical Engineering
82.	IT1212 Cyber Security	3rd	Information Technology
83.	AE1214 Heat Transfer	3rd	Aeronautical Engineering
84.	EG254Presentation Skills – II	3rd	English

6. Courses in collaboration with other universities, industries, foreign institutions, etc:

We have collaboration with HCL industry for conducting various training programs and courses for both staffs and students in the computational fluid dynamics area for analysis of aerodynamic problems.

7. Details of programmes discontinued, if any, with reasons:

NIL

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:

Semester and Choice based credit System

9. Participation of the department in the courses offered by other departments:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	ME1101 Engineering Graphics	1St	Mechanical Engineering
2.	ME 1172Computer Aided Drafting and modeling Lab	1St	Mechanical Engineering
3.	AC1201 Aircraft Rules and Regulation	2nd	Aircraft Maintenance Engineering
4.	AC1209 Aircraft Avionics Systems	3rd	Aircraft Maintenance Engineering
5.	AC1208 Aircraft Structures	3rd	Aircraft Maintenance Engineering
6.	AC1210 Aircraft Engines I	3rd	Aircraft Maintenance Engineering
7.	AC1272 Airframe Repair and Maintenance Lab	2nd	Aircraft Maintenance Engineering
8.	AC1204 Aircraft General Engineering and Maintenance Practices	2nd	Aircraft Maintenance Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	1	1	1
Asst.Professor	6	6	6
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Mr.Chaman Lal Ojha	M.E	Professor	Aerospace	27 (21yr Industry + 6 yr Teaching)
Mr. M.S. Aldrin Sugin	M.E	Associate Professor	M.E. CAD	8 Years 3 Months
Mr.G.Diju Samuel	M.E.	Assistant Professor	Aeronautical Engineering	4 Years 2 months
Mr. G.Ramanan	M.E	Assistant Professor	Aerospace Engineering	4 Years 2 months
Mr. S. Muthu Sherin	M.E	Assistant Professor	Aeronautical Engineering	6 yrs (3 yrs Industry + 3 yrs Teaching)
Mr. K .Samuel	M.E	Assistant Professor	Avionics	4 years
Mr. D. Bino Prince Raja	M.E	Assistant Professor	Aeronautical Engineering	1 Year

Faculty member associated from Bio-Medical Engineering Department:

Name	Qualification	Designation	Specialization	No. of Years of Experience
Prof.J.Benita	M.E.	Assistant Professor	Applied Electronics	9

Faculty member associated from Mathematics Department:

Name	Qualification	Designation	Specialization	No. of Years of Experience
Mr.G.Victor Jeya Chandra	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Applied Mathematics	7y 9m

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

NIL

13. Percentage of classes taken by temporary faculty – programme-wise information:

NIL

14. Programme-wise Student Teacher Ratio:

Name of the Programme	Student Teacher Ratio
Aerospace Engineering	15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled
Lab Assistant	1	1

16. Research thrust areas as recognized by major funding agencies:

Sl.No	Area	Category
1.	Composite Materials Fabrication	a) Metal Matrix Composites b) Polymer Matrix Composites c) Natural Fiber Composites
2.	Machining of High Strength Materials	a) EDM Machining b) Wire Cut Machining c) Ultra Jet Machining
3.	Metal Matrix composite Welding	a) Friction Stir Welding b) MIG Welding c) TIG Welding
4.	Design and testing Aerospace components	a) Wing Structural loading b) Fuselage design and analysis c) Flutter Analysis

17. Number of faculty with ongoing projects from a) national b) International funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :

Name of the Funding Agency	Project Title	Grants Received
ISRO	"Computational fluid dynamics analysis of ejector-diffuser system used for testing of rocket engines in low pressure environment"	2 lacs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration:

NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :

NIL

20. Research facility / centre with

1. E-Resources
   Sciencedirect
   IEEE
   ASME
   ASCE
2. Research Labs
   a) Computational Fluid Dynamics Lab
   b) Composite Materials Lab
   c) Aircraft Structures Lab
   d) Airframe Repair and Maintenance Lab

21. Special research laboratories sponsored by / created by industry or corporate bodies:

CFD Lab:

Name of the Funding Agency	Project Title	Grants Received
ISRO	"*Computational fluid dynamics analysis of ejector-diffuser system used for testing of rocket engines in low pressure environment*"	2 lacs

22. Publications:

*** Number of papers published in peer reviewed journals (national / international)**

* **Monographs** **:** Nil
*** Chapters in Books** **:** Nil
*** Edited Books** **:** Nil
*** Books with ISBN with details of publishers** **:** Nil
*** Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
*** Citation Index –** 0.74
*** SNIP**

*** SJR**
*** Impact Factor –** 0.74
*** h-index**

The following table provides the details of the publications of faculty members of Aerospace Engineering department during the period from 2009 to 2015.

Sl. No.	Author, Title of the Paper	Vol No., Page No., Year	Name of the Journal	Impact factor/ SNIP/ SJR
1.	M.S.Aldrin Sugin, Vaddi Seshagiri Rao, Purushothaman s "Characterization of Aluminium Flyash Particulate Metal Matrix Composites for Application to Wings of Plane"	ISSN: 1450-216X / 1450-202X Vol. 96 No 1 February, 2013, pp.17-23	European Journal of Scientific Research	0.74
2.	M.S.Aldrin Sugin, Vaddi Seshagiri Rao "Fabrication of Aluminium Fly ash metal matrix composite with activated carbon and characterization of mechanical properties"	ISSN 0973-4562 Volume 10, Number 11 (2015)PP 10440-10444	International Journal of Applied Engineering Research	–
3.	M.S.Aldrin Sugin, Vaddi Seshagiri Rao, Purushothaman s Analysis Of Plane Wing Made Of Aluminium Particulate Metal Matrix Composite Using Finite Element Method	ISSN 0973-4562 Vol. 9 No.26 (2014) pp. 9126-9128	International Journal of Applied Engineering Research	–
4.	G. Diju Samuel, J. Edwin Raja Dhas " A review for Friction stir welding of aluminium composite for aerospace applications"	Vol.5, Page N0 215- 217, 2014	Journal of emerging technology in Mechanical science and engineering	–
5.	G. Ramanan, J. Edwin Raja Dhas " A study of the non traditional machining process on Aerospace alloys by using electrical discharge machining method	Vol.5, Page N0 209- 214, 2014	Journal of emerging technology in Mechanical science and engineering	–
6.	G. Ramanan, J. Edwin Raja Dhas "Preparation of Al 7075 - PAC Metal Matrix Composites and Evaluation of Mechanical	ISSN 0973-4562 Vol.10,No. 70 Page 304-312, 2015	International Journal of Applied Engineering	–

	Properties		Research	
7	K. Sathiyavani, K. Samuel Optimized PSO based MPPT for extracting Maximum power from PV module	ISSN No 2349-3585Vol 03 Feb 2015	International journal for research and Development in Technology	_

In summary, the faculty members of the Aerospace Department have published 6 research papers in peer-reviewed journals. Apart from the above publications, faculty members and students of the Aerospace Department continuously present their research findings at regional, national and international conferences and seminars.

23. Details of patents and income generated:

NIL

24. Areas of consultancy and income generated:

Sl. No.	Name of the faculty member	Areas of consultancy carried out	Income generated (Rs)
1	M.S.Aldrin Sugin	Quad copter (Trio Technologies, Nagercoil)	7500
2	G. Diju Samuel	RC Model Flight(Trio Technologies, Nagercoil)	6000
3	G. Ramanan	Composite panel (Nepolian Fisheries PVT. LTD)	5000

25. Faculty selected nationally / internationally to visit other laboratories / Institutions / industries in India and abroad:

Faculty Name	Industry Visited	Place	Date
M.S. Aldrin Sugin	Indian Institute of space science and technology	Trivandrum	12/7/ 2010
Chaman lal Ojha M.S. Aldrin Sugin	ISRO , VSSC	Trivandrum	23/2/2011

M.S. Aldrin Sugin	Aeronautical Development Agency	Bangalore	7th March 2011
Chaman lal Ojha M.S.Aldrin Sugin G.Diju Samuel	ISRO, LPSC	Mahendragiri	4/5/12
S. Muthu Sherin K. Samuel	Taneja Aerospace and Aviation Limited	Hosur	23/2/2013
M.S.Aldrin Sugin	Indian Airforce	Bangalore	15/1/2014
K.Samuel	Adhiyamaan college of Engineering	Hosur	6/8/2015

26. Faculty serving in

a) National committees : Nil
b) International committees : Nil
c) Editorial Boards : Nil
d) any other (please specify) : Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)

Sl.No	Name of the Faculty	Title of the Workshop	Date	Organized
1	Mr. M. S. Aldrin Sugin	Computational Methods in fluid flow and Heat Transfer	Jul 2010	Indian Institute of space and Technology
2	Mr. G.Diju Samuel	National conference on emerging trends in automobile CETA2K13	4/4/13	Automobile Department NIU
		International conference on emerging trends in science,engineering business & disaster management ICBDM 2014	28/2/14	Department of human resource NIU
		International conference on advanced materials & manufacturing ICAMM 2015	27 & 28 mar 2015	Mechanical Department Cape institute of technology

3	Mr. G.Ramanan	Fault Detection and Isolation Scheme for Pulsed Plasma Thruster	2011	National Multi conference on innovative computing.
		National Conference on Recent Trends in Automobiles `CETA 2013'	2013	Automobile Dept NIU
		A study of the nontraditional machining process on aerospace alloys by using electrical discharge machining method Preparation of Al 7075 –	MAY 2014	ICBDM 2014 NIU
		PAC Metal Matrix Composites and Evaluation of Mechanical Properties	MAY 2015	ICEAS 2015 ECE dept NIU
4	Mr. S. Muthu Sherin	Challenges in Space Technology Short-Term Training Program	May 2014	SRM University Chennai & ISTE

28. Student Projects :

Name of the Programme (refer to question no. 4)		**% of students who have done in-house projects including interdepartmental Projects**	**% of students doing projects in collaboration with other universities / industry / institute**
B.E.,	2009-10	90%	10%
B.E.,	2010-11	10%	90%
B.E.,	2011-12	40%	60%
B.E.,	2012-13	Persuing	
B.E.,	2013-14	Persuing	
B.E.,	2014-15	Persuing	

29. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post doctoral fellows : Nil
- Students : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

Galacticz - National seminar on April 3rd 2014

31. Code of ethics for research followed by the departments:

The Code sets forth the ethical principles and standards that govern the professional work of education researchers. The Code of Ethics replaces the Ethical Standards, which were adopted and have been only minimally modified since that time. The current Code is intended to provide guidance that informs and is helpful to education researchers in their research, teaching, service, and related professional work.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)		Application received	Selected		Pass Percentage	
			Male	Female	Male	Female
B.E.,	2009-10	38	19	1	100%	100%
B.E.,	2010-11	17	7	3	100%	100%
B.E.,	2011-12	33	13	3	74%	66%
B.E.,	2012-13	22	8	4	Persuing	
B.E.,	2013-14	55	10	16	Persuing	
B.E.,	2014-15	19	7	7	Persuing	

33. Diversity of students:

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.E.,	2009-10	Nil	Nil	Nil	Nil
B.E.,	2010-11	Nil	Nil	Nil	Nil
B.E.,	2011-12	Nil	Nil	Nil	Nil
B.E.,	2012-13	Nil	Nil	Nil	Nil
B.E.,	2013-14	Nil	Nil	Nil	Nil
B.E.,	2014-15	Nil	Nil	Nil	Nil

34. How many students have cleared Civil Services and Defence Services Examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

NIL

35. Student progression:

Student progression	Percentage against enrolled
UG to PG	20%
Employed	45%
• Campus selection	-
• Other than campus recruitment	30%
Entrepreneurs	5%

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	16%
from other universities within the State	66%
from universities from other States	16%
from universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

NIL

38. Present details of departmental infrastructural facilities with regard to

a) Library **:** 354 Books
b) Internet facilities for staff and students : Wi-Fi Connecting to all
c) Total number of class rooms **:** Four
d) Class rooms with ICT facility **:** One
e) Students' laboratories **:** One
f) Research laboratories **:** One

39. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university **:** 2
b) From other institutions/universities **:** 1

40. Number of post graduate students getting financial assistance from the university **:** Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

We have taken feedback and Industrial requirements from our distinguished alumini and from various Industrial experts. Based on that optimization of our curriculum and development of new facilities are done for the new programme.

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The department utilize the feedback from faculty on curriculum as well as teaching-learning evaluation during the construction of new regulations, syllabus and programmes.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :

Yes. The feedback from students on staff, curriculum and teaching-learning-evaluation is obtained on regular basis, once in each semester. The report is helpful in scrutinizing the efficiency of faculty, practical difficulties the faculty face in handling the subjects which will forwarded to the Academic affairs.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The feedback from the alumni and employers is helpful in reducing the wide gap between educational institution and the industry. The students are informed about the qualities which market expects from them and areas of promising future growth so that they can excel themselves before entering the industrial atmosphere.

43. List the distinguished alumni of the department (maximum 10)

Sl No	Name	Position	Company Name	Place
1.	Ms.Juptha vijayan	Aerospace Engineer & design illustrator	CDG A Boeing company	Chennai, India
2.	Mr. Adhin Dev	Quality Engineer	ALMansoori specialized engineering	Abu Dhabi, UAE
3.	Mr. Thanseer S	Project Engineer	Ehdetheyat geo systems LLC	Dubai, UAE
4.	Mr. Ranju radhakrishnan	Site Engineer	Dubai Drydocks	Dubai, UAE
5.	Mr. Dhanyu Suresh	Technical officer quality control	AIR INDIA	India
6.	Mr. Ashiq Ashraf	Production manager	Alvis group	Dubai, UAE
7.	Mr. Nihas Fasaludeen	Safety officer	Al-Diyar general contracting Co.	Abu dhabi, UAE
8.	Mr. Laiju Al	Design Engineer	TAAL	Hosur, India
9.	Mr. Gautham Krishnan	Customer service Associate	ACIS-Alliance Cornhill IT service	Thiruvananthapuram, India
10.	Mr. Suresh Kumar	Junior Engineer	HAL	Banglore, India

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Sl. No	Date	Class	Name of the Student	Organization	Topic
1	21/01/2013	S6, Aerospace	N.Gayathri	Periyar maniammai university,	Aerospace Festival
2	21/01/2013	S6, Aerospace	P.P.Juptha Vijaya	Periyar maniammai university,	Aerospace Festival
3	21/01/2013	S6, Aerospace	Blessy Selex Samuel	Periyar maniammai university,	Aerospace Festival
4.	12/08/2015 13/08/2015	S3 ,Aerospace	Reshma Aarabhi Remesh Abirami	Jet Aerospace	Intelligent Unmanned Systems

			Adithya Amal john John Jacob Rozna Manzoor Asbin leo Ranjana George Thirunavukkarasu		
5.	19/03/2015 20/03/2015 21/03/2015	S4, Aerospace	Hakkimsha Aarabhi Remesh Asbin leo Abirami Adithya Amal john Ranjana George Thirunavukkarasu	IIST,Trivandrum	Satellite Designing & Launching Workshop

45. List the teaching methods adopted by the faculty for different programmes:

1. Use Block Board
2. OHP
3. LCD Projector

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Programme objectives are constantly met by upgrading the syllabus according to present day need. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedbacks, class committee meeting, programme committee meeting. Feedbacks from the committee meeting were discussed in the department and necessary actions were incorporated.

47. Highlight the participation of students and faculty in extension activities.

1. Attend Symposium
2. Attend Conference
3. Appearing Competitive Exams

48. Give details of "beyond syllabus scholarly activities" of the department:

- Aero club activities being conducted in the campus on yearly basis. Students and the participants have been training in the field of aeromodelling and lucid demonstration on trainer aircraft.
- Courses on soft skills, foreign languages, presentation skills, aptitude and reasoning are taught to all students.

- Seminars and workshops are arranged to improve the technical skills of the students and to make them aware of current technology.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

.

50. Briefly highlight the contributions of the department in generating new Knowledge, basic or applied:

Focusing on imparting communication skills, Teaching Soft Skills, aptitude skills, reasoning skills to cope up industry standards. Once in a year board of studies meeting will be conducted. And experts from industries and academic institutions are invited to participate in the meet. The recent advancements in the industries and in the academic side can be explored from the meet.

Conducting every year seminars and workshops at national level; Innovative Student Projects with new ideas as part of curriculum making students a part of the research done by the faculty Conduct Workshop and Conference.Intra-moral courses, placement training programs, software career programs have been conducted to enhance the personality and explore the possibilities of employment opportunities in the market.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

1. Highly Qualified Faculties
2. Sophisticated Lab
3. Department Library
4. Conducting Conferences
5. Internet enabled classrooms

Opportunities :

- Motivating Students Competitive Exams, State and National Level
- Pursuing research and higher studies In India and abroad

Challenges :

Providing 100 % placement

52. Future plans of the department :

- To start PG program
- MOU with universities and MNC's

- Training the faculty members to get trained with the updated Syllabus
- Taking special care about the students individually to improve their academic and discipline activities.
- Project work will be arranged for the final year students in blue ship organizations like NAL, HAL & ISRO.

- To provide Entrepreneurship training to the students.
- To conduct International Conferences.

Department Evaluative Report

Department of Automobile Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Automobile Engineering
Evaluative Report

1. **Name of the Department :** Automobile Engineering

2. **Year of establishment :** 2009

3. **Is the Department part of a School/Faculty of the university?** Yes, Faculty of Mechanical Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**

   UG - B.E Automobile Engineering
   PG – M.E Automobile Engineering
   Ph.D - Automobile Engineering

5. **Interdisciplinary programmes and departments involved:**
   B.E (Automobile Engineering - Regulation 2009)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	EG101 Technical English-I	1st	English
2.	MA101 Applied Mathematics-I	1st	Mathematics
3.	PH101 Engineering Physics-I	1st	Physics
4.	CH101 Engineering Chemistry-I	1st	Chemistry
5.	ME101 Engineering Graphics	1st	Mechanical Engineering
6.	CS101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7.	CS171 Computer Practice Lab I	1st	Computer Science and Engineering
8.	PH171-Physics Lab-I	1st	Physics
9.	CH171-Chemistry Lab-I	1st	Chemistry
10.	CV171-Civil Lab	1st	Civil Engineering
11.	ME171-Mechanical Lab	1st	Mechanical Engineering
12.	ME172-Computer Aided drafting and Modelling Lab	1st	Mechanical Engineering
13.	EG102 Technical English-II	1st	English

14.	MA102 Applied Mathematics-II	1st	Mathematics
15.	PH102 Engineering Physics-II	1st	Physics
16.	CH102 Engineering Chemistry-II	1st	Chemistry
17.	ME102 Engineering Mechanics	1st	Mechanical Engineering
18.	CV101-Basic Civil Engineering	1st	Civil Engineering
19.	ME103-Basic Mechanical Engineering	1st	Mechanical Engineering
20.	EE101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering
21.	EC101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
22.	CS172 Computer Practice Lab II	1st	Computer Science and Engineering
23.	PH172-Physics Lab-II	1st	Physics
24.	CH172-Chemistry Lab-II	1st	Chemistry
25.	EE171-Electrical Lab	1st	Electrical and Electronics Engineering
26.	EC171-Electronics Lab	1st	Electronics and Communications Engineering
27.	MA201 Applied mathematics III	2nd	Mathematics
28.	ME 202 Fluid Mechanics and Machinery	2nd	Mechanical Engineering
29.	ME 205 Strength of Materials	2nd	Mechanical Engineering
30.	EG251Career skills – I	2nd	English
31.	MA204 Probability and Statistics	2nd	Mathematics
32.	AE 206 Mechanics of Machines	2nd	Aeronautical Engineering
33.	EG252Career Skills - II	2nd	English
34.	EE 2A9 Electrical Drives and Control	2nd	Electrical and Electronics Engineering
35.	CS2B1 Electronics and Microprocessor	2nd	Computer Science and Engineering
36.	EE 278 Electrical Electronics and Microprocessor Lab	2nd	Electrical and Electronics Engineering

37.	MS101 Environmental Science	3rd	Management Studies
38.	Presentation Skills - I	3rd	English
39.	MS102 Professional and Business Ethics	3rd	Management Studies
40.	EG254Presentation Skills - II	3rd	English
41.	MS103 Principles of Management	4th	Management Studies

B.E (Automobile Engineering - Regulation 2013)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	EG1101 Technical English-I	1st	English
2.	MA1101 Applied Mathematics-I	1st	Mathematics
3.	PH1101 Engineering Physics-I	1st	Physics
4.	CH1101 Engineering Chemistry-I	1st	Chemistry
5.	ME1101 Engineering Graphics	1st	Mechanical Engineering
6.	CS1101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7.	CS1171 Computer Practice Lab I	1st	Computer Science and Engineering
8.	PH1171-Physics Lab-I	1st	Physics
9.	CH1171-Chemistry Lab-I	1st	Chemistry
10.	ME1172-Computer Aided drafting and Modelling Lab	1st	Mechanical Engineering
11.	EG1102 Technical English-II	1st	English
12.	MA1102 Applied Mathematics-II	1st	Mathematics
13.	PH1102 Engineering Physics-II	1st	Physics
14.	CH1102 Engineering Chemistry-II	1st	Chemistry
15.	ME1102 Engineering Mechanics	1st	Mechanical Engineering
16.	BE1101-Basic Engineering-I	1st	Electrical and Electronics Engineering
17.	BE102-Basic Engineering - II	1st	Mechanical & Civil Engineering

18.	CS1172 Computer Practice Lab II	1st	Computer Science and Engineering
19.	PH1172-Physics Lab-II	1st	Physics
20.	CH1172-Chemistry Lab-II	1st	Chemistry
21.	BE1171-Basic Engineering Lab-I	1st	Electrical and Electronics Engineering
22.	BE1172- Basic Engineering Lab-II	1st	Mechanical & Civil Engineering
23.	MA1201 Applied mathematics III	2nd	Mathematics
24.	EE 1213 Electrical Engineering and Control	2nd	Electrical and Electronics Engineering
25.	EE 1276 Electrical Engineering and Control Lab	2nd	Electrical and Electronics Engineering
26.	EG251Career skills – I	2nd	English
27.	MA1204 Statistics and Numerical Methods	2nd	Mathematics
28.	MS1201 Environmental Science	2nd	Management Studies
29.	EG252Career Skills - II	2nd	English
30.	EG 253Presentation Skills - I	3rd	English
31.	MS1202 Professional and Business Ethics	3rd	Management Studies

M.E (Automobile Engineering)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1503 Applied Mathematics	1st	Mathematics

6. Courses in collaboration with other universities, industries, foreign institutions, etc :

1) Organized an international conference ICRAME 2010 collaborated with University of Sheffield, UK by School of Mechanical Sciences.
2) Off Campus training of Automobile students projects are collaborated with Big Foot Customs, Trivandrum

7. Details of programmes discontinued, if any, with reasons:

NIL

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester wise university exams are conducted. The students can opt the electives present as they wish to Choice based credit system is also followed which enables the students to choose electives from any discipline of the university.

9. Participation of the department in the courses offered by other Departments:

Nil

10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	2	2	2
Asst.Professor	7	7	7
Others		-	

11. Faculty profile with name, qualification, designation, area of specialization , experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil. Students guided for the last 4 Years
Dr. Edwin Raja Dhas. J	M.E, Ph.D	Professor	M.E, CAD/CAM	12 Years 6 Months	8
Dr. Edwin Sahayaraj. M	M.E, Ph.D	Associate Professor	Production Engineering	15 Years	-
Dr. Stanly Jones Retnam. B,	M.E, Ph.D	Associate Professor	Manufacturing Engineering	8 Years 6 Months	8
Mr. Darwins. A.K	M.E, (Ph.D)	Assistant Professor	Manufacturing Engineering	11 Years 3 Months	-
Mr. Karthik. K.S	M.E	Assistant Professor	Automobile Engineeri	4 Years 5 Months	-

			ng		
Mr. Subhanandh. B.V	M.E	Assistant Professor	M.E, CAD/CAM	3 Years 2 Months	-
Mr. Pradeep.P,	M.Tech, (Ph.D)	Assistant Professor	Thermal Engineering	9 Years 4 Months	-

Faculty member associated from Bio-Medical Engineering Department :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M. Phil. Students guided for the last 4 Years
Prof.S.G. Saju Simon	M.E.	AssistantProfessor	Biomedical Instrumentation	2 Years	-

Faculty members associated from Mathematics department

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil. Students guided for the last 4 Years
Mrs.P. Jeba Sheeja	M.Sc., M.Phil.,B.Ed.	Asst. Prof.	Graph Theory	6Years 4Month	-
Dr. J.John Arul Singh	M.Sc., M.Phil, Ph.D.	Asst. Prof.	Graph Theory	4Years 3Month	03

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

NIL

13. Percentage of classes taken by temporary faculty – programme-wise information:

Nil

14. Programme-wise Student Teacher Ratio:

Sl. No.	Name of the Programme	Student-Teacher ratio
UG programme		
1	B.E (Automobile Engineering)	15 :1
PG programme		
2	M.E(Automobile Engineering)	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled
Workshop Instructor		1
Lab Assistant		5

16. Research thrust areas as recognized by major funding agencies:

Areas of Research:

- Welding technology
- Metal matrix Composites
- Polymer composites
- Alternative fuels
- Surface engineering

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

Name of the Funding Agency	Project Title	Grants Received
SERC	Development of Intelligent hybrid on-line decision making tools for manufacturing	Proposal submitted

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Sl.No.	Name of the Organization	Date of Signing the MOU
1	Big Foot Customs, Trivandrum	28.1.2015
2	St. John's Plastic World, Chennai	06.02.2015
3	Al-Tariaq Trading and Services, Dubai	31.7.2015

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

NIL

20. Research facility / centre with

- **state recognition**
- **national recognition**
- **international recognition**

Research facilities concerned with national recognition are as follows

- E-Resources such as
  - Science direct
  - IEEE
  - ASME
  - ASCE
- CNC Machine
- Universal Testing Machine
- Micro Hardness Tester and Wear Testing Machine
- Hydraulic Press

21. Special research laboratories sponsored by / created by industry or corporate bodies:

Research laboratory is planned to create in collaboration with NICHE. This lab is equipped with

- Alternative Fuel Test Rig
- Compression Moulding Machine

22. Publications:

* Number of papers published in peer reviewed journals (national / international)

*** Monographs :** Nil

*** Chapters in Books :** Nil

*** Edited Books :** Nil

*** Books with ISBN with details of publishers :** Nil

*** Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare**

Database - International Social Sciences Directory, EBSCO host, etc.)
*** Citation Index – range / average**
*** SNIP**
*** SJR**
*** Impact Factor** – range / average
*** h-index**

The following table provides the details of the publications of faculty members of Automobile Engineering during the period from 2009 to 2015.

Name of the Faculty	Name of the Journal (National / International)	No. of papers published	Year of publication	Listed in International Database	Citation index	SNIP	SJR	Impact Factor	h-index
Dr.J. Edwin Raja Dhas	Journal of Emerging Technology in Mechanical Sciences and Engineering	03	2014	-	-	-	-	-	-
	Journal of Engineering Science and Technology Research	01	2014	Scopus	-	-	-	-	-
	Applied Soft Computing	03	2011, 2014, 2015	Scopus	-	-	-	2	7
	The Journal of Engineering Research	01	2014	Scopus	-	-	-	-	-
	Journal of Engineering Science and Tecnology Research	01	2014	Scopus	-	-	-	-	-
	International Journal of Engineerin	01	2014	Scopus	-	-	-	-	-

	g Research & Technology								
	International Journal of Applied Engineering Research	02	2014	Scopus	-	-	-	-	-
	International Journal of Industrial and Systems Engineering	01	2014	Scopus	-	-	-	-	-
Dr. Stanly Jones Retnam. B	International Journal of Applied Engineering Research	04	2014	Scopus	-	-	-	-	-
	Bulletin of material science	02	2010, 2014	Scopus	-	-	-	1.017	-
	International Journal of Applied Engineering and Research	01	2014	Scopus	-	-	-	0.8	5
	European journal of engineering research	01	2014	Scopus	-	-	-	0.743	2
	ARPN journal of Earth science	01	2015	Scopus	-	-	-	1.5	-
	International of Design and Manufacturing Technology	01	2014	-	-	-	-	4.9284	-
	International Journal of Design and Manufacturing Technologies	01	2013	-	-	-	-	-	-
	Journal of	02	2011	-	-	-	-	-	-

	Emerging Technology in Mechanical Science and Engineering								
Dr. Edwin Sahayaraj. M	International Journal of Advanced Engineering Applications	01	2009	-	-	-	-	-	-
	Journal of Emerging Technology in Mechanical Science and Engineering	01	2011	-	-	-	-	-	-
	National Journal on Advances in Building Sciences & Mechanics	01	2013	-	-	-	-	-	-
	Journal of Advanced Microscopy Research	01	2014	Scopus	-	-	-	-	-
	Corrosion Reviews	01	2014	Scopus	-	-	-	0.527	-
	Science and Engineering of Composite Materials	01	2014	Scopus	-	-	-	0.287	-
Mr.P. Pradeep	European journal of engineering research	01	2014	Scopus	-	-	-	0.743	-
	Bulletin of material science	01	2010, 2014	Scopus	-	-	-	-	-
	International Journal of Applied Engineering Research	01	2014	Scopus	-	-	-	-	-

23. Details of patents and income generated:

NIL

24. Areas of consultancy and income generated:

NIL

25. Faculty selected nationally / internationally to visit other laboratories /institutions / industries in India and abroad :

NIL

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

Sl.No	Name of the Faculty	Committee
1	Dr. J.Edwin Raja Dhas	• Chief examiner-NIU central valuation • Chairman-Board of studies NIU • Judge MECHARNIC2015 • Ph.D supervisor –NIU • Organizing chair CRDI2014 • Organizing chair CETA2013 • Organizing Secretary ICRAME 2010 • Organizing Secretary ICMOC 2012 • Chief Guest in Technical Symposium • Organizing chair New Generation Cars 2013
2	Dr. M. Edwin Sahaya Raj	• Additional Examiner-NIU central valuation • Member-Board of studies NIU • Organizing chair CRDI2014 • Organizing chair CETA2013 • Organizing Secretary ICRAME 2010 • Additional Chief Superintendent University Theory examination • Surveillance and monitoring committee • Stock verification officer NIU • Centre coordinator YSSAP 2011 • Internal ISO Auditor • Convener New Generation Cars 2013
3	Dr. B. Stanly Jones Retnam.	• Judge Technical symposium MECTRIX 2015-MACET

		• Vigilance Squad- University Practical & Theory examination • Additional examiner-NIU central valuation • Placement officer-NIU • Member-Board of studies NIU • Stock verification officer NIU • Question paper setter –Vels University • Judge MECHARNIC2015 • Ph.D supervisor –NIU • Organizing secretary CRDI2014 • Organizing secretary CETA2013 • Joint secretary ICBDM 2014 • Centre coordinator YSSAP 2011 • Surveillance and monitor committee • Coordinator ECO club • Convener New Generation Cars 2013 • Organizing Secretary ICRAME 2010 • Internal ISO Auditor
4	Mr.A.K Darwins	• Organizing secretary CRDI2014 • Organizing secretary CETA2013 • Additional examiner-NIU central valuation • Member-Board of studies NIU • Additional Stock verification officer NIU • Organizing secretary New Generation Cars 2013
5	Mr.K.S. Karthik	• Member-Board of studies NIU • Organizing secretary CRDI2014 • Organizing secretary New Generation Cars 2013
6	Mr.B.V.Subhanand	• Member-Board of studies NIU • Organizing secretary CRDI2014 • Organizing secretary New Generation Cars 2013
7	Mr.P.Pradeep	• Member-Board of studies NIU • Publishing CRDI2014 • Organizing secretary New Generation Cars 2013

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

Sl.No	Name of the Faculty	Title of the Workshop	Date	Organized
1	Dr. J.Edwin Raja Dhas	"Sustainable Manufacturing" under TEQUIP community Service	2013	NITT, Trichy
		Faculty Orientation Programme	2015	Noorul Islam University, Kumaracoil
2	Dr. M. Edwin Sahaya Raj	Dynamic Processing of Metals	2000	Annamalai University, Annamalai Nagar
		Aerosols in Environment	2004	College of Engineering, Trivandrum
		Application of Neural Network and Fuzzy Logic in Product Development	2006	Jeyamatha Engineering College, Aralvaimozhi
		Faculty Orientation Programme	2015	Noorul Islam University, Kumaracoil
3	Dr. B. Stanly Jones Retnam.	Recent Trends in Mechanical Engineering	2007	Vins Christian College of Engineering
		Faculty Orientation Programme	2015	Noorul Islam University

28. Student projects :

a. percentage of students who have done in-house projects including inter-departmental projects

Batch	Total students	% of in house projects	% outside university
2009-13	58	80	20
2010-14	38	80	20
2011-15	39	80	20

29. Awards / recognitions received at the national and international level by

- **Faculty :** Nil
- **Doctoral / post doctoral fellows :** Nil
- **Students:** Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date
1	CETA 2k 13 - National Conference	April 4th 2013
2	CRDI2014 National Conference	April 3rd 2014
3	New Generation Cars – Workshop	October 2013

31. Code of ethics for research followed by the departments:

Research Colloquium meeting:

The research scholars desirous of joining the Ph.D programme should apply in the prescribed application form, though proper channel wherever applicable, before the due date as indicated in the notification issued from time to time.

The research guide should have Doctoral Degree in the relevant area of research in which he/she proposes to guide the scholar.

The Doctoral Committee of a research scholar shall meet within a month from the date of communication of his/her registration to prescribe the course work.

Each full time research scholar shall sign in the attendance register provided for the purpose on all working days.

32. Student profile programme-wise :

Name of the Programme (refer to question no. 4)		Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
UG-BE-	2015-16	69	32	0	-	-

Name of the Programme (refer to question no. 4)		Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
AUTO	2014-15	64	21	0	87.5	-
	2013-14	64	32	0	81.08	-
	2012-13	56	31	0	96.33	-
	2011-12	61	41	0	-	-
	2010-11	64	38	0	-	-
	2009-10	82	66	0	-	-
PG-ME-AUTO	2015-16	3	0	0	-	-
	2014-15	2	2	0	-	-
Ph.D-AUTO	2015-16	5	2	0	-	-

33. Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
ME	100	-	-	-
BE	100	-	-	-

34. How many students have cleared Civil Services and Defence Services Examinations, NET, SET, GATE and other competitive examinations ? Give details category-wise:

NIL

35. Student progression :

2013-2014

Student progression	Percentage against enrolled
UG to PG	1.88 %
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection	Nil

• Other than campus recruitment	Nil

2012-2013

Student progression	**Percentage against enrolled**
UG to PG	Nil
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil Nil

2011-2012

Student progression	**Percentage against enrolled**
UG to PG	Nil
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil Nil

2010-2011

Student progression	**Percentage against enrolled**
UG to PG	Nil
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil Nil

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	28.57%
from other universities within the State	71.42%
from universities from other States	NIL

from universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

S. No	Name of the Faculty	University	Month and Awarded Year	Programme
1	Dr.M.Edwin Sahayaraj	Kalasalingam University, Srivliputhur	Aug-2015	Ph.D
2	Dr.B.Stanly Jones Retnam	Noorul Islam University,Kumaracoil	Nov-2013	Ph.D
3	Dr.J.Edwin Raja Dhas	NIT-Trichy	Aug -2009	Ph.D

38. Present details of departmental infrastructural facilities with regard to :

S.No	Items	Count
1	Books in Department library	482
2	Magazines	1
3	Journals	2
4	Project Reports	50
5	CD's	10
6	Question papers	60
7	Solved questions & answer book	13

b) Internet facilities for staff and students

The faculties and the students were provided internet connectivity by means of MKN project from BSNL with a speed of 1 GBPS which they can access the resources.

c) Total number of class rooms

There are 5 class rooms in our department.

d) Class rooms with ICT facility

In the last five years, many faculties have developed ICT enabled course material for the subjects taught by them. Most of the departments are equipped with audio-visual teaching aids which are also used to teach students. Learner centric activities, like participatory learning, interactive sessions, student seminars, case studies, project work, assignments, problem solving exercises, and practical – field work are rigorously implemented. Real time interactive EDUSAT programs were used for the benefit of the students. Moreover, all the classrooms are provided with LCP projectors. Moreover, we have a smart room.

e) Students' laboratories

The students are provided with 10 laboratories.

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :

Sl. No	Name of the student	Name of the guide
1.	Mr. Jenkins Hexly Dhas	Dr. J.Edwin Raja Dhas
2.	Mr.G.Diju	Dr. J.Edwin Raja Dhas
3.	Mr.N.Ramanan	Dr. J.Edwin Raja Dhas
4.	Mr.P.Pradeep	Dr. J.Edwin Raja Dhas
5.	Mr. Bino Prince	Dr. B. Stanly Jones Retnam
6.	Mr. S.Subash	Dr. B. Stanly Jones Retnam
7.	Mr.M.Aniber Benin	Dr. B. Stanly Jones Retnam

b) from other institutions/universities :

Sl. No	Name of the student	Name of the guide
1.	Mr. N.Rajesh Praba	Dr. J.Edwin Raja Dhas
2.	Mr.S.Shanavas	Dr. J.Edwin Raja Dhas
3.	Mr.K.Unni krishnan	Dr. J.Edwin Raja Dhas
4.	Mr.S.Alex	Dr. B. Stanly Jones Retnam
5.	Mr.P.Paulose	Dr. B. Stanly Jones Retnam
6.	Mr.Darshan	Dr. B. Stanly Jones Retnam
7.	Mr.S.P. Rajesh	Dr. B. Stanly Jones Retnam

40. Number of post graduate students getting financial assistance from the university:

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Yes, assessment exercise is a continuous process undertaken before revision/design of new programmes. The programme committee obtains feedback from students and staffs on curriculum and discusses the problems concerning curricula, syllabi. The Chairperson will prepare the minutes of every meeting, submit the same to the HOD within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any suggestions they are made as recommendations to BOS.

42. Does the department obtain feedback from :

a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes

Yes, feedback from faculty on curriculum as well as teaching-learning-evaluation is utilized for revision of syllabus and teaching-learning process.

b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, the department obtain feedback from students on staff in each semester .The head of the department analyze the feedback and will discuss the strength and weakness with the concerned staffs. The programme committee was also conducted to obtain feedback from students on curriculum and discusses the problems concerning curricula, syllabi. The suggestions if any are made as recommendations to BOS

C) alumni and employers on the programmes offered and how does the department utilize the feedback?

Feed back obtained, is to be revised in upcoming BOS

43. List the distinguished alumni of the department (maximum 10):

Sl. No	Name of the Alumini	Position Held	Name of the Firm
1	Mohammed Hussian	Junior Engineer-Design	Maruthi, Chennai
2	ManojJaison Paul	Junior Engineer-Production	TAFE, Coimbatore
3	Sulphikar	Trainee	Cater Piller, Bangalore
4	Tom Varghese	Trainee	Audi, Bangalore
5	Harinath	Advicer	Fiat services, Truvananthapuram

6	N. Nagarajan	Incharge - Trainee	TAFE, Coimbatore
7	M. Priayesh	Service Engineer	Renault Services, Trivandrum

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Sl. No	Date	Class	Name of the Resource Person	Organization	Topic
1	18/01/2011	S4, Automobile	P.T. Saravana kumar, S. Muthusudhanan	Sigma Consultancy Service, (SCS), Pollachi,	CFD and ITS Application
2	11/03/2011	S6, Automobile	M. karthikeyan, Mr. Satheesh	ATS ELGI Ltd, Coimbatore	Wheel Alignment of WSE
3	5/01/2012	S6, S8,Automobile	M. karthikeyan, Mariappan	AISERWFDC	Motivation for Research Program
4	01/10/2012	Automobile Students	Dr. R. Rajendren	Executive Council Member, SAE	SAE-India Student Activities
5	05/02/2013	S4,Automobile	David Devassy	Bulkhead Aerodesign, Chennai	Design in Modeling Courses
6	10/10/13	S7 & S5 Students of Automobile Engg.,	Anil Kumar SR	Hercules automobiles, tvm	Modern technologies in new generation cars
7	2/4/14	S8, Automobile Engg Students	Dr. P. Nagendra Prasad	Professor, Bio-medical Engg, NIU	Alternative fuels
8	14/11/14	S7 & S5 Students of Automobile Engg.,	Mr. Senthil Kumar	Manager, TVS-TS, Chennai	Industrial training
9	25/3/15	S6, Automobile Engg Students	Mrs. Aarya Kiran	Edwise, Chennai	Overseas Education
10	21/8/15	S7 Autombile Engg., students	Mr.T.King Wisely	MWC,Nagercoil	Career Oriented program.

45. List the teaching methods adopted by the faculty for different programmes.

- Traditional chalk & talk method
- Smart class room-Marine
- Industrial Visit for real time learning
- Practical Classes
- Group Discussions
- Problem solving sessions
- OHP

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Programme objectives are constantly met by upgrading the syllabus according to present day need. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedbacks, class committee meeting, programme committee meeting.

47. Highlight the participation of students and faculty in extension activities

- Many students periodically participate in the technical and sports activities conducted by the University as well as by other colleges.
- Students and faculty members take part in various club activities.

48. Give details of "beyond syllabus scholarly activities" of the department:

- Courses on soft skills, foreign languages, presentation skills, aptitude and reasoning are taught to all students.
- Seminars and workshops are arranged to improve the technical skills of the students and to make them aware of current technology.
- Organizing National level conference for students.
- Participation in various national and international level paper presentations by our students.
- Paper presentation by faculty at state, national and international level.
- Faculty participation in various seminars and workshops.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new Knowledge, basic or applied:

- Focusing on imparting communication skills;
- Teaching Soft Skills, aptitude skills, reasoning skills to cope up IT industry
- conducts every year seminars and workshops at national level;
- Innovative Student Projects with new ideas as part of curriculum
- Making students a part of the research done by the faculty

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strengths:

* All the staff members of the department work as a team to bring out the best.
* Three in the troupe of 7 have completed Ph.D, 2 Registered
* Effective utilization of the smart class room for covering the syllabus is done.
* Each student is given a equipment during Lab hours.
* All the students should choose a research project of their interest as their main project.

Weaknesses:

* There are no funded projects carried out by the department.
* Training for competitive exams like GATE, CAT, MAT etc is not given.
* Department library does not have recent titles, essential journals and magazines.

Opportunities:

* It is mandatory for the students to take part in Industrial internship training to know the real life problem in and solutions in industries.
* The students are given ample opportunities to improve their communication skills through soft skills training. They are also given Foreign Language (Japanese, German & French) coaching to widen their spread and scope.
* Training in soft and software skills of different phases is also provided to tune up their communication and programming capabilities respectively.

Challenges:

* Dynamism in curriculum to meet fast changing career objectives is needed.
* Funded projects on some of the most challenging and important technical problems should be carried out.
* Sponsored workshops, FDPs, conferences to fuse innovative ideas should be conducted.

* The requirement of the students to be trained in multi facets beyond curriculum is a need for the current placement requirement.

52. Future plans of the department:

- To promote industry-institution interaction.
- To develop the department to the centre of excellence in research.
- To start the international journal in emerging Automotive system.
- All faculties will possess PhD as the minimum qualification in next five years.

Department Evaluative Report

Department of Biomedical Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Biomedical Engineering
Evaluative Report

1. **Name of the Department** **:** Biomedical Engineering

2. **Year of establishment** **:** 2009

3. **Is the Department part of a School/Faculty of the university?**
   Yes the department of Biomedical engineering is a part of School of Electrical & Electronics Engineering, Noorul Islam University, Kumaracoil.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

Si. No	Programme(UG/PG/M.Phil/ Ph.D.)	Course
1	UG	B.E Biomedical Engineering
2	Ph.D.	Biomedical Engineering

5. **Interdisciplinary programmes and departments involved**

   B.E (Biomedical Engineering)

Sl. No.	Subject Code and Subject Name	Year	Department offering the course
1.	EG101 Technical English-I	1st	English
2.	MA101 Applied Mathematics-I	1st	Mathematics
3.	PH101 Engineering Physics-I	1st	Physics
4.	CH101 Engineering Chemistry-I	1st	Chemistry
5.	ME101 Engineering Graphics	1st	Mechanical Engineering
6.	CS101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7.	CS171 Computer Practice Lab I	1st	Computer Science and Engineering
8.	PH171-Physics Lab-I	1st	Physics
9.	CH171-Chemistry Lab-I	1st	Chemistry
10.	CV171-Civil Lab	1st	Civil Engineering
11.	ME171-Mechanical Lab	1st	Mechanical Engineering
12.	ME172-Computer Aided drafting and Modelling Lab	1st	Mechanical Engineering

13.	EG102 Technical English-II	1st	English
14.	MA102 Applied Mathematics-II	1st	Mathematics
15.	PH102 Engineering Physics-II	1st	Physics
16.	CH102 Engineering Chemistry-II	1st	Chemistry
17.	ME102 Engineering Mechanics	1st	Mechanical Engineering
18.	CV101-Basic Civil Engineering	1st	Civil Engineering
19.	ME103-Basic Mechanical Engineering	1st	Mechanical Engineering
20.	EE101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering
21.	EC101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
22.	CS172 Computer Practice Lab II	1st	Computer Science and Engineering
23.	PH172-Physics Lab-II	1st	Physics
24.	CH172-Chemistry Lab-II	1st	Chemistry
25.	EE171-Electrical Lab	1st	Electrical and Electronics Engineering
26.	EC171-Electronics Lab	1st	Electronics and Communications Engineering
27.	MA201 Applied mathematics III	2nd	Mathematics
28.	EG251Career skills – I	2nd	English
29.	CS207 Computer Networks	2nd	Computer Science and Engineering
30.	EG252Career Skills – II	2nd	English
31.	EC207 Fundamental of Digital Signal Processing	3rd	Electronics and Communications Engineering
32.	MS101 Environmental Science	3rd	Management Studies
33.	Presentation Skills – I	3rd	English
34.	MS102 Professional and Business Ethics	3rd	Management Studies
35.	EG254Presentation Skills – II	3rd	English
36.	MS103 Principles of Management	4th	Management Studies

37.	(IT205)Microprocessor & Micro Controller	6th	Information Technology

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Sl.No	Course	Industry
1	Hospital Engineering Management	NIMS Hospital Neyyatinkara

7. Details of programmes discontinued, if any, with reasons

Sl.No	Programmes Discontinued	Reason
	- NIL -	

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

Semesterbased Choice based credit system

9. Participation of the department in the courses offered by other departments

Sl.No.	Name of the courses handled for other departments	Name of the other department
1	Trends in Biotechnology	Department of Nanotechnology
2	Plant and Animal Biotechnology	Department of Nanotechnology

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	2	2
Associate Professors	3	3	3
Asst. Professors	3	3	3
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.K.Subramonia Iyer	M.Sc., PhD	Professor	Biochemistry	45	nil
Dr.P.Nagendra Prasad	M.Sc., PhD	Professor	Bio Technology	29	08
Dr.V.S. Dharun	M.E, Ph.D	Associate Professor	Applied Electronics	11.2	09
Prof.S.Albert Jerome	B.E, M.Tech	Associate Professor	Biomedical Signal Processing and Instrumentation	12.6	-
Dr.M. Murugan	M.Sc., PhD	Associate Professor	Bio Technology	13	1
Prof.I.Sowmy	M.E.	Assistant Professor	Communication Engineering	9	-
DrKavithaRaj. N.K	M.Sc., PhD	Assistant Professor	Biochemistry	15	-
DrMansoor Ani Najeeb	M.Tech, PhD	Assistant Professor	Biomedical	5	

Faculty associated with Aircraft Maintenance Engineering

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.MinikumariAmma	M.Sc., PhD	Associate Professor	Bio-chemistry	13	-

Faculty associated with Aerospace Engineering

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Prof.J. Benita	M.E.	Assistant Professor	Applied Electronics	9	-

Faculty associated with Mechanical Engineering

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Prof. V. Femi	M.E.	Assistant Professor	Nano Technology	5	-

Faculty associated with Automobile Engineering

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Prof.S.G. Saju Simon	M.E.	Assistant Professor	Biomedical Instrumentation	2	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Sl. No.	Name of the Faculty Member	Designation (Visiting fellow, visiting Faculty, adjunct faculty, Emeritus Professors)
	-Nil -	

13. Percentage of classes taken by temporary faculty – programme-wise information

Sl.No	Programme	Percentage of classes taken by temporary faculty
1.	BE	5%

14. Programme-wise Student Teacher Ratio

Sl.No	Name of Programme	Student Teacher Ratio
	UG Programme	
1.	B.E Biomedical Engineering	15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Sl.No	Detail	Sanctioned	Filled	Actual
1.	Academic support staff(technical)	2	2	2
2.	Administrative staff	Nil	Nil	Nil

16. Research thrust areas as recognized by major funding agencies

Sl.No	Name of Programme	Student Teacher Ratio
1.	Biodiesel, Taxonomy	DST
2.	Molecular Biology	DBT

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Sl. No	Name of Principal Investigator	Name of the Funding Agency	Title of the Project	Grants Received
1.	Dr.P.Nagendra Prasad	Department of Science and technology	Physico chemical analysis of various biodiesel from different bio energy crops	20,45,850
2.	M Murugan	Department of biotechnology	Identification of barcoding sequence and molecular characterization of Puntius species to resolve the taxanomic ambiguities using cytochrome b gene	18.11 lakhs

3.	M Murugan	Department of science and technology	Biodiversity and molecular characterization of barilius species to resolve the taxanomic ambiguities using cytochrome c oxidase 1 gene	20.39 lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Sl.No.	Title of the Interinstitutional collaborative project	Name of the Institution & Year	National / International	Amount (Rs. in Lakhs)
1	Maintenance and repair of Biomedical Equipment's	NIMS hospital, Neyyatinkara 2011	National	1.5 lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Sl. No	Name of the Funding Agency	Project Title	Grants Received
1	**DST-FIST**	1.Physico chemical analysis of various biodiesel from different bio energy crops Biodiversity and molecular	20,45,850
		2.characterization of barilius species to resolve the taxanomic ambiguities using cytochrome c oxidase 1 gene	20.39 lakhs

2	**DBT**	Identification of barcoding sequence and molecular characterization of Puntius species to resolve the taxanomic ambiguities using cytochrome b gene	18.11 lakhs

20. Research facility / centre with

- **State recognition**
- **National recognition**
- **International recognition**

Sl.No.	Name of the research facility / Centre	Type of Recognition (State National / International)
1	Centre for Biological sciences	National

21. Special research laboratories sponsored by / created by industry or corporate bodies

Sl. No.	Name of the special laboratories sponsored	Sponsoring agency (Industry / Corporate Body)
1	Cath lab	NIMS Neyyatinkara

22. Publications:

a) Number of papers published in peer reviewed journals (National/ International)

Sl. No.	Author, Title of the Paper	Vol No., Page No., Year	Name of the Journal	Impact factor/ SNIP/SJR
1.	V. N. Ariharan, S.T. Gopukumar, V.N. Meena Devi and **P. Nagendraprasad**,Studies on argemonemexicana oil for its usage as biodiesel.	5 (3): 528 – 532, 2014	Int J Pharm Bio Sci;	0.5/-/-
2.	V. N. Ariharan, S.T. Gopukumar, V.N. Meena Devi and **P. Nagendraprasad**, Physico-chemical analysis of cleome viscose L. Oil: a potential source for biodiesel,	7 (2):129 - 132, 2014	Rasayan J. Chem.,	0.87/-/0.2
3.	V.N Ariharan, V.N Meena Devi, S.T.Gopu	5(1):64-71, 2014	Research Journal of	1.09/-/

	Kumar, **P Nagendra Prasad**, Physico-Chemical Properties of Biodiesel Obtained from Callophylluminnophyllum Oil.		Pharmaceutical, Biological and Chemical Sciences,	
4.	V.N. Ariharan, V.N Meena Devi, **P Nagendra Prasad**, Nutraceutical studies on passifloraEdulis-Passion fruit	4(4):176 – 179, (2013)	International journal of Pharma and Bio sciences	0.57/-/0.33
5.	V.N. Ariharan, V.N Meena Devi, **P Nagendra Prasad** , Antibacterial ativity of Sauropus and rogynous leaf extracts against some pathogenic bacteria	3.6(2): 134-137 (2013)	Rasayan Journal of Chemistry	0.87/0.2
6.	V.N Meena Devi, V.N Ariharan**, P. Nagendra Prasad**, Annatto: Eco-Friendly and potential source for natural Dye	4.4(6): 106-108 (2013)	International Research journal of Pharmacy	-
7.	V.N. Ariharan, V.N Meena Devi, **P Nagendra Prasad** , Physico-Chemical Charactrization of Cotton Seed oil for its potential use as biodiesel	4(2):1336-1345,(2013)	Research Journal of Pharmaceutical, Biological and Chemical Sciences,	1.99/-/
8.	V.N. Ariharan, V.N Meena Devi, **P Nagendra Prasad**, Nutritive Value and Potential Uses of LeucaenaLeucocephala as Biofuel – A Mini Review.	4(1): 515-521, 2013	Res. J. Pharm., Biol. Chem. Sci	1.09/-/
9.	V. N. Ariharan, V. N. Meena Devi, M. Rajakokhila**, P. Nagendra Prasad**, Antibacterial activity of Costusspeciosus rhizome extract on some pathogenic bacteria	4: 24-27, 2012	Int. J. of Advance Life Sciences	0.982
10.	V.N. Ariharan, K. Kalirajan, V. N.Meena	5(3): 356-359, 2012	Rasayan Journal of	0.87/-/0.2

	Devi**, P. Nagendra Prasad**, An Exotic fruit which forms the New Natural Source for Vitamin – C		Chemistry	
11.	V. N. Ariharan ,V. N. Meena Devi, M. Rajakokhila, **P. Nagendra Prasad**, A New natural source for vitamin–c.	3(2) :92-94, 2012	International journal of plant, animal and environmental sciences	0.5/-/-
12.	V.N. Meena Devi, **P. Nagendra Prasad,** L. Arul Mary Syndia, M. RajaKohila, V.N. Ariharan, Ethnobotanical studies on thozhukanni and azhukanni among the kanikkars of south india.	14(2), 135-138, 2012	Int. J. Pharm. Sci. Rev. Res.,	1.33/-/0.2
13.	VN Meena Devi, **P Nagendra Prasad**, L Arul Mary Syndia, M Rajakohila, V.N Ariharan, Physico-Chemical Characterization of Rubber Seed Oil (HeveaBrasiliensis) - A Promising Feedstock for Biodiesel Production	5(3), 1402-1404. 2012	International Journal of Chemical and Analytical Science,	0.85
14.	VN Meena Devi, M Rajakohila, L Arul Mary Syndia, **P Nagendra Prasad**, V.N Ariharan, Multifacetious Uses of Soapnut Tree – A Mini Review	3(1): 420 - 424, 2012	Research Journal of Pharmaceutical, Biological and Chemical Sciences,	1.99
15.	**V.S.Dharun**, Sujith.R.S and Firoz.S.N, " Development of an Ambulatory UniversalBiopotential Recoding Device"	Volume 10, No. 59, Page(9-13), 2015.	International Journal of Applied Engineering Research	0.3/0.034/0.113
16.	Saleena.Y and **V.S.Dharun**, "An Overview of Median Filters and Different	Volume 10, No. 59, Page(51-54) 2015	International Journal of Applied Engineering	0.3/0.034/0.113

	Algorithms"		Research	
17.	Saleena.Y and **V.S.Dharun,** "Total Solution for Corruption by e-Currency to build up a Smart Nation"	Volume 10, No. 59, Page(55-59) 2015.	International Journal of Applied Engineering Research	0.3/0.034/0.113
18.	D.R.DenslinBraja and **V.S.Dharun,** "Secure Secret Image Sharing Using Visual Crypto-Stego Technique"	Volume 10, No. 59, Page(121-129) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
19.	Veenus P K, K.Sivasankar, Vivek P K and **V.S.Dharun,** "Analysis of Embedding Compression in Baptista's Chaotic Cryptography"	Volume 10, No. 59, Page(143-148) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
20.	N Krishnaraj, P Ezhilarasu and **V.S.Dharun**, "Smart Phone Application For Automatic Public Transportation Though Providing Intelligent Bus Status Information To The Users"	Volume 10, No. 59, Page(163-167) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
21.	Vivek P K, **V.S.Dharun**, Veenus P K, and K.Sivasankar, "A Review on the Modified Matching Pursuit Algorithms in Sparse Signal Recovery"	Volume 10, No. 59, Page (251-262) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
22.	Vivek P K, **V.S.Dharun**, Veenus P K, and K.Sivasankar, , "A Critical Analysis of Traditional Sampling in the Context of Compressive Sensing"	Volume 10, No. 59, Page(263-269) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
23.	**V.S.Dharun**, SajuSimon.S.G, Leneta Christopher and Tincy K Mariam, "A Survey on Bionic Eye"	Volume 10, No. 59, Page(465-469) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
24.	**V.S.Dharun**, SajuSimon.S.G, ShahanaShihab and Thahany. S, "Implantable	Volume 10, No. 59, Page(470-473)	International Journal of Applied Engineering	0.3/0.034/0.113

	Cardioverter Defibrillator"	2015	Research	
25.	M.B.Sudhan, **V.S.Dharun**, "Face Recognition Techniques and Algorithms – A Review"	Volume 10, No. 59, Page(474-479) 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
26.	SwarnaPriya RM and **V.S. Dharun**, "Techniques for Detecting the Cloud Cover in High Resolution Multi-temporal Satellite Imagery – A Comparison"	Volume 9, No. 21, Page (10889 - 10897) 2014	International Journal of Applied Engineering Research	0.3/0.034/0.113
27.	L.Praveen, **V.S.Dharun** and N.Vipin, "An Efficient Routing Protocol for Better Energy Efficiency and Avoidance of Voids in Sensor Networks"	p. 260-262, 2012.	IET Journal	1.2/-/0.72
28.	**S.Albert Jerome** and A.ShajinNargunam, - "Automatic Segmentation of Intervertebral Disc of Cervical Spine Using Morphological Operation"	Vol. 9 No.26 pp. 9319-9322, 2014.	International Journal of Applied Engineering Research	0.3/0.034/0.113
29.	**S.Albert Jerome** and A.ShajinNargunam, - "Automatic Segmentation of Inter-vertebral Discs of Cervical Spine using Improved Canny Edge Detection Algorithm"	Vol.10 No.59 pp. 492-498, 2015.	International Journal of Applied Engineering Research	0.3/0.034/0.113
30.	J. Albino wins and **M. Murugan.** Effect of textile mill effluent on growth and germination of black gram - vigna mungo (l.) Hepper	1(1): 1-3. 2010	International Journal of Pharma and Bio Sciences	5.121
31.	J. Albino wins and **M. Murugan**Persistence of genetic diversity in pathogenic	1: 26-30. 2010	Crossian Resonace	-

	Aeromonashydrophila isolated from milk samples			
32.	**M. Murugan** and J. Albino Wins. Industrial biotechnology-a sustainable future.	1(3): 1-3. 2010	International Journal of Pharma and Bio Sciences	5.121
33.	Saju K.A, M. Michael Babu, **M. Murugan** and S. Thiravia Raj Survey on Halophilic microbial diversity of Kovalam Saltpans in Kanyakumari District and its industrial applications.	1 (5); 160-163. 2011	Journal of Applied Pharmaceutical Science	0.537
34.	J. Albino wins, **M. Murugan** and C.S. Vasavi. Amplification of Seafood Pathogenic Gene from AeromonasHydrophila.	2 (4): 128-132. 2011	CrossianReson ace	-
35.	Aldous Jenin, Michael Babu and **Murugan**. Identification of Chitin Enzyme Producing Fungal Species from the Saltpan.	3 (2): 148-154. 2012	LPC bulletin on Research	-
36.	K.Sungaya, T. Murugan and **M. Murugan**. Isolation and characterization of probiotic lactic Acid bacteria from milk and curd samples.	4(1): 317-324 2013	International Journal of Pharma and Bio Sciences	5.121
37.	T. Murugan, J. Albino Wins and **M. Murugan**. Antimicrobial Activity and Phytochemical Constituents of Leaf Extracts of Cassia auriculata	72 (1): 122-125. 2013	International Journal of Pharma and Bio Sciences	0.497
38.	J. Albino wins, T. Murugan and **M. Murugan**. In-vitro antibacterial activity and phytochemical investigation on leaf	1: 32-41. 2013	Crossian Resonace	-

	extracts of cassia fistula			
39.	Meena Devi V. N. and **MuruganM** . Renewable Energy from Microalgae for Biodiesel Production – A Mini Review	1: 1-9. 2013	International Journal of Pharma and Bio Sciences	-
40.	Preenu P Sen, Gautham A, **MuruganManavalan** and Mansoor Ani Najeeb. Bacteria in Cancer Therapy: An Emerging Robust Strategy	4 (5): 1-4. 2013	Journal of Applied Pharmaceutical Science	0.751
41.	A. Gautham, M. Muhammed Javad, **MuruganManavalan** and Mansoor Ani Najeeb. Hemodialysis Membranes: Past, Present and Future Trends		Crossian Resonace	
42.	G.L. Nandagopan, Arjun kishore, **MuruganManavalan** and Mansoor Ani Najeeb. Treatments for Alzheimer's disease: An Overview	4 (5): 12-15. 2013	LPC bulletin on Research	0.751
43.	Sona Ann Sunny, Arjun Kishore, **MuruganManavalan** and Mansoor Ani. Recent trends in Biomaterials used for Cardiovascular Stenting	4 (5): 20-23. 2013	International Journal of Pharma and Bio Sciences	0.751
44.	S.T.Gopukumar, V.N.Ariharan, **M. Murugan** and V.Saravanan. Pathogenic gene offline database of human pathogen towards various diseases under different pathogenic conditions.	1 (3): 67-73. 2013	Indian Journal of Pharmaceutical Science	-
45.	T. Murugan, J. Albino Wins and **M. Murugan**. Screening of marine green algae Ulva species for anticoagulanat activity	1:101-109. 2013	International Journal of research in Engineering and Bioscience	-

46.	K. ChristalThangaPadmini, B. Christudhas Williams and **M. Murugan**. Inventory and Population Study of Fungi from the Riverine drinking water	4(3): 1119-1124. 2013	International Journal of research in Engineering and Bioscience	5.121
47.	**Murugan. M** . Non-invasive technique for DNA isolation from formalin preserved endangered fishes	1 (3):74-79. 2013	International Research Journal of Phar macy	
48.	A.Kishore, Nandagopalan, MuruganManavalan and Mansoor Ani Najeeb Glucose sensors based on electrochemical process: review	4(4): 1199-1206. 2013	International Research Journal of Phar macy	5.121
49.	T.Athirian Shola, J. Albino Wins and **M. Murugan** Screening on bioactive compounds of selected marine seaweeds and its antifungal activity.	2(1): 34-38. 2014	International Research Journal of Phar macy	-
50.	S.K. Sundar, T.P. KumariPushpa Rani, B. Vijayalakshmi and **M. Murugan** Isolation and 16S rRNA Sequencing of Clinical Isolates of Acinetobacter baumanii.	3(5): 855-858. 2014	International Research Journal of Phar macy	2.015
51.	P.Ashok Kumar, P. Karpagam and **M.Murugan** Oligotrophic and Eutrophic bacteria as bioindicator of physico-chemical parameters	2(2): 1-15. 2014	International Journal of research in Engineering and Bioscience	-
52.	S.K.Sundar, T.P.KumariPushpa Rani, B.Vijayalakshmi and **M.Murugan** Antibiotic susceptibility	5(3): 744-751. 2014	International Journal of research in Engineering and Bioscience	5.121

	pattern and genetic variability studies of clinical isolates of lower respiratory pathogens			
53.	Anusha SU., Sundar SK., **Murugan M** Isolation and Screening of Bacterial Isolates in UTI Patients in Different age and Gender Groups in Namakkal District, Tamil Nadu.	4(9): 27-29. 2014	International Journal of Pharma and Bio Sciences.	0.537
54.	**M.Murugan**, T. Murugan, J. Albino Wins and P. Ashok Kumar Quantification of DNA in preserved and fresh specimen of Cyprinid Fish – Puntius arulius	5(2): 185-188. 2015	International Journal of research in Engineering and Bioscience	-
55.	**M.Murugan**, T. Murugan, J. Albino Wins and P. Ashok Kumar Quantification of DNA in preserved and fresh specimen of Cyprinid Fish – Puntius arulius	5(2): 185-188. 2015	International Journal of Pharma and Bio Sciences	-
56.	Aldous Jenin, M. Michael Babu and **M.Murugan** Production and optimization of novel Chitinase enzyme using Aspergillus species isolated from shells of infected Artemia	3 (1): 14-22. 2015	International Journal of research in Engineering and Bioscience	-
57.	K.R. Beula Rani, S.K. Sundar and **M.Murugan** "Effect of cultural conditions on α-amylase production by Bacillus licheniformis".	3 (1): 55-60. 2015	International Journal of current microbiology and applied sciences	-
58.	**M. Murugan**, T. Murugan and J. Albino Wins.- "Study of freshwater fish fau"na in Periyakulam Riverine" Wetland, Kanyakumari district, Tamilnadu	2(5): 150-152 2015	International Journal of research in Engineering and Bioscience	0.352

59.	**J.Benita** and R.Jayaparvathy, 'Comparative performance analysis of subcarrier assignment for real-time video traffic'	pp. 1-10, 2015	IET Networks	Scopus
60.	**J.Benita** and R.Jayaparvathy, 'Performance analysis of dynamic packet assignment for real time video traffic in MIMO-OFDMA system'	Vol No. 10 pp.397-400 2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
61.	**V.Femi,** Hema Prabha, Lovelin – " Evaluation of Antibacterial potential of ZnO-Au nanocomposites"	Vol 1,No.5(2011)	South Asian Journal of Experimental Biology,	NIL
62.	**V.Femi, ,** Hema Prabha, Lovelin – " Antimicrobial activity of ZnO-Au nanocomposites"	Vol.1,Issue.I (2011)	International Journal of Biotechnology and Engineering	NIL
63.	Reshma.S, Ammalu, **V.Femi,** Mansoor Ani Najeeb – " Artificial skin: History, Types and Future Trends"	Vol.1(2), No. 84(2013)	International Journal Research in Engineering and Bioscience	NIL
64.	Reshma.S, Ammalu, **V.Femi,** Mansoor Ani Najeeb – " Extra Corporeal Membrane Oxygenation(ECMO): A Review"	Vol.1(2), No.11(2013)	International Journal Research in Engineering and Bioscience	NIL
65.	Reshma.S, Ammalu, **V.Femi,** Mansoor Ani Najeeb – Recent Advancements in Hormone Replacement Therapy "	Vol.1(2),No 59(2013)	International Journal Research in Engineering and Bioscience	NIL
66.	**Saju Simon S.G**&Dr. V.S Dharun - "BrainTumor Segmentation And Estimation Using Fuzzy	Volume 2 (Issue 2) Pages (24-33). 2014	International Journal Research in Engineering and Bioscience	NIL

	K-Mean"			
67.	**Saju Simon S.G ,**Shaliha Mohammed, Nitha .V- "Silver Nano Wires In Touch Screen Application"	Volume 2 (Issue 2) Pages (158-164).2014	International Journal Research in Engineering and Bioscience	NIL
68.	**Saju Simon S.G,** AnanthaResham, Reshma. S- "Voice Operated Wheelchair For Physically Challenged"	Volume 2 (Issue 2) Pages (140-148) - 2014	International Journal Research in Engineering and Bioscience	NIL
69.	**Saju Simon S.G**& Alina Nero – " Application Of Remote Sensing And Gis In Water Quality Assessment"	Volume 10 Issue 59 pages (61 – 67)-2015	International Journal of Applied Engineering Research	0.3/0.034/0.113
70.	**Saju Simon S.G**& Dr. Felix Joseph - "A Survey On Dental X-Ray Image Segmentation With Various Techniques"	Volume 10 Issue 59 pages (14 – 19)-2015	International Journal of Applied Engineering Research	0.3/0.034/0.113

b) Monographs, Chapters in Books, Edited Books, Books with ISBN with details of publishers

Nil

c) Number listed in International Database (For e.g. Web of Science, Scopus,Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Citation Index – range / average, SNIP, SJR, Impact Factor – range/ average, h-index –

Sl.No	Year	International Database (SCOPUS, Web of Science, EBSCO)	SNIP/ SJR	Impact Factor (Thomson Reuters)	h-index	Citation index
1.	2009	-	-	-	-	-
2.	2010	2	1.54	10.24		-
3.	2011	1	0.537	0.537	11	-
4.	2012	15	-/ 1.472	7.120	-	-
5.	2013	11	0.77	6.623	-	-
6.	2014	23	3.034/0.113	13.146	11	-
7.	2015	1	-	-	7	34

23. Details of patents and income generated

Sl. No.	Name of the faculty member	Patent received	Income generated (Rs. in Lakhs)
	- NIL -		

24. Areas of consultancy and income generated

Sl. No.	Name of the faculty member	Areas of consultancy carried out	Income generated (Rs. in Lakhs)
1	DrM.Murugan	Human Genetic lab	1.5 lakhs

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Sl. No.	Name of the faculty member	Name of the Lab visited in India	Name of the Lab visited abroad
1	DrM.Murugan	1) Zoological Survey Of India, Kolkatta, 2) National Bureau of Animal Genetics, Karanal 3) National Bureau of Fish Genetic Research, Cochin, 4) TBGRI, Thenmala, Kerala	National Development and Reforms commission(NDRC), china

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Sl. No.	Name of the faculty member	Details of National / International committee served	Details of Editorial Board served	Any other committee
1	P.Nagendra Prasad			1.Member, Academic council,

				NICHE2.Member, BOS, BME,NICHE
2	Dr. V.S. Dharun		1.Editorial Board Member, International Organization of Scientific Research and Development International Journals Editorial Board 2.Member, International Journal of Advanced Research Trends in Engineering and Technology	1.Chairman, BOS, BME,NICHE 2.Member, Academic council, NICHE 3. Member, Planning & Monitoring board, NICHE
3	S.Albert Jerome			1.Member, BOS, BME,NICHE
4	Dr. M.Murugan			1.Member, BOS, BME,NICHE
5.	I.Sowmy			1.Member, BOS, BME,NICHE

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

The following recharging strategies are adapted by the University to refresh the knowledge and provide exposure to latest developments in the areas of interest of the Faculty members:

- Opportunities for attending summer and winter schools organized by leading institutions and research institutes.
- Nominating the faculty for special training programmes organized by CSIR laboratories and other R&D institutes.
- Sponsoring the faculties to attend National and International Conferences as well as to visit research laboratories within India and abroad.

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**
- **percentage of students doing projects in collaboration with other**

universities / industry / institute

Sl.No.	Name of the Programme offered	Percentage ofstudents who have done inhouse Projectsincluding interdepartmental projects	Percentage of students who have done in-house projects in collaboration with other universities / industry / institute
1	B.E Biomedical Engineering	**90**	**10**

29. (a) Awards / recognitions received at the national and international level by Faculty:

Sl.No.	Name of the Faculty Member	Awards /recognition received	
		National	**International**
1	Dr. M.Murugan	ALL INDIA SECOND PRIZE "Sahajanand Laser Technology SUSHRUTA INNOVATION AWARD" 2011-12 MSME, Govt. of India & National Biomedical Engineering Society	-
		BEST paper BRONZE MEDAL,Bharathidasan University	-

(b) Awards / recognitions received at the national and international level by Student:

Sl.No.	Name of the Student	Awards /recognition received	
		National	**International**
1	PreenuP.Sen	ALL INDIA SECOND PRIZE "Sahajanand Laser Technology SUSHRUTA INNOVATION AWARD" 2011-12 MSME, Govt. of India & National Biomedical Engineering Society	-
2	M.Kannan	Received the Student project scheme sponsored by Tamilnadu state council for science and technology	-

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl. No.	Programme	Date	Programme Name	Funding Agency	Details of participants
1	International Conference	17/04/15	ICON'15	NICHE	Post Graduate students, Research Scholars and Faculty members
2	National Conference	13/03/14	RAINBOW'14	NICHE	Post Graduate students, Research Scholars and Faculty members
3	Workshop	28/03/14 & 28/03/14	Biomedical equipment maintenance	NICHE	45 Under Graduate students
4	Workshop	23/08/13 & 24/08/13	Medical Image processing using MAT LAB	NICHE	Students, Research Scholars and Faculty members

31. Code of ethics for research followed by the departments

The research scholars wish to join the Ph.D. programme should apply in the prescribed application form, though proper channel wherever applicable, before the due date as indicated in the notification issued from time to time. The research guide should have Doctoral Degree in the relevant area of research in which he/she proposes to guide the scholar. The Doctoral Committee of a research scholar shall meet within a month from the date of communication of his/her registration to prescribe the course work

GENERAL RESPONSIBILITY

- Be sensitive to the needs, current issues, and problems of society when determining research questions to be asked, services to be developed, information to be collected, orthe interpretation ofresults/findings.
- Protect the dignity and wellbeing ofresearch participants at all times. Maintain records ofresearch data for an appropriate period of time and ensure that these are stored according to the provisions of legislation in this area.

32. Student profile programme-wise:

Name of the Programme	Year	Applications received	Selected		Pass percentage
			Male	Female	
BE(BME)	2014-2018	82	14	26	-
	2013-2017	78	5	12	-
	2012-2016	56	13	9	-
	2011-2015	44	10	12	95
	2010-2014	45	7	14	100
	2009-2013	52	14	12	92

33. Diversity of students

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
-	-	-	-	-

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Sl.No.	Name of the competitive Examination	Number of students cleared
1	Civil Services	Nil
2	Defense Services examinations	Nil
3	NET	Nil
4	SET	Nil
5	GATE	Nil

35. Student progression

Student progression	Percentage against enrolled					
	2009-10	2010-11	2011-12	2013-14	2014-15	2015-16

UG to PG						
PG to M.Phil.	-	-	-	-	-	-
PG to Ph.D.		-	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-	1	-
Employed • Campus selection • Other than campus recruitment	-	-	-	78%	80%	82%
Entrepreneurs	-	-	-	-	-	-

36. Diversity of staff

Percentage of faculty who are graduates	PG	Ph.D
of the same university	8.3%	14.2%
from other universities within the State	58.4%	42.8%
from universities from other States	33.3%	39%
from universities outside the country	Nil	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Year	Number of Faculty awarded Ph.D / D.Sc., D.Litt
2010-11	-
2011-12	-
2012-13	1
2013-14	1
2014-15	-

38. Present details of infrastructural facilities with regard to Library, Internet facilities for staff and students, Total number of class rooms, Class rooms with ICT facility, Students' laboratories, Research laboratories

Sl.No.	Name of the Infrastructural Facility	Quantity / Details
1	Library	538
2	Internet for staff	Wifi internet facility for all
3	Internet for students	Wifi internet facility for all
4	Number of class rooms	5
5	Classrooms with ICT facility	1

6	Research Labs	2

39. List of Doctoral, Post-Doctoral students and Research Associates from the Host University, from other Universities

Sl. No.	Name of the Student	Category Post-doctoral / Doctoral / Research associate	Name of the University (Host / other University)
1	Mr. S.Albert Jerome	Doctoral	Host
2	MrsI.Sowmy	Doctoral	Host
3	MrsJ.Benita	Doctoral	other University
4	Mr. S.G.Saju Simon	Doctoral	Host

40. Number of post graduate students getting financial assistance from the university.

Programme	Number of students getting financial assistance from the University					
	2009-10	2010-11	2011-12	2013-14	2014-15	2015-16
NIL	NIL	NIL	NIL	NIL	NIL	NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Since there were less B.E Biomedical courses in the surrounding locality during the initial stages of the university, also there was a heavy requirement for Bio-medical engineers in the industry. Considering the above requirements the university developed the course in BE Biomedical Engineering.

42. Does the department obtain feedback from –

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how doesthe department utilize the feedback?

Yes,

The feedback obtained from the faculties is used if required to modify theCurriculum/Syllabus. Based on the suggestions, new courses related to research area andneed based courses are introduced as special electives with the approval of the Board ofStudies.

(b) Students on staff, curriculum and teaching-learning-evaluation and how does thedepartment utilize the feedback?

Yes,

The evaluation (anonymous) on staff is obtained from each student of the class at the end ofeach internal assessment for the courses taught by the faculties. It is been evaluated, the areas ofimprovement if indicated by students are conveyed to the faculty by HOD.

The students are part of course subcommittee. The students view on curriculum andteaching – learning – evaluation is obtained during the class committee meetings and course subcommittee meetings. The views if genuine are incorporated suitably.

(c) Alumni and employers on the programmes offered and how does the departmentutilize the feedback?

Yes,

Alumni of the departments and prospective employers of our students are made members ofsyllabus committee, Board of studies etc. They have also been invited to the Department forsharing their experience and delivering special lectures. The requirement of the industry andperformance of students employed in their organizations are heard. Their suggestions aregiven due importance and implemented.

43. List the distinguished alumni of the department (maximum 10)

S.No.	Name/ Designation	Industry/Hospital Name	Batch
1.	Arshad Karim	Biomedical Engineer, KIMS	2009-2013
2.	Bravin	Biomedical Engineer, Apollo Hospital,Chennai	2009-2013
3.	Akhil .S	Service Engineer	2009-2013
4.	Krishna Prabhakar Shankar	Biomedical Engineer, KIMS	2009-2013
5.	NafzalShahul	Biomedical Engineer, NIMS	2009-2013
6.	Ammalu.A.V	Biomedical Engineer, NIMS	2010-2014
7.	Arjun Kishore	Biomedical Engineer, Nammavikram hospitals Mysore	2010-2014
8.	Muralidharan R	HLL Life care Bangalore	2010-2014
9.	Preenu P Sen	Biomedical Engineer, MIMS	2010-2014
10.	Ansu Johnson	Biomedical Engineer, St. Johns Medical College Hospital, Bangalore	2010-2014

44 Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts

Sl.No	Date	Title of the Special	Details of the External

		Lecture / Workshop / Seminar organized	Expert
1	28/03/2014 & 29/03/2014	Biomedical equipment maintenance	Vineeth, MD VAS Equip care
2	23/08/13 & 24/08/13	Medical Image processing using MAT LAB	Dr.C.Ajees Kumar Professor,EEE, ACEW
3	23/07/13	Personality development	Mr Joseph, Soft skill trainer, Chennai

45 List the teaching methods adopted by the faculty for different programmes.

(a) Lecture by Teacher
(b) Lecture-demonstration by special speaker
(c) Presentation by students (individual/group) by invitation
(d) Discussion groups conducted by class teacher
(e) Assignments (Test books, supplementary books, Journals and supplementaryreading)
(f) Case study presentation
(g) Teaching supported by slides, OHP, PowerPoint, Video.
(h) Demonstration in the Laboratory
(i) Implant training
(j) Mini Projects (ex: innovative projects)
(k) Design projects
(l) Thesis/Project work at the final semester in the case of UG course
(m) Exclusive laboratory training for certain theory course
(n) Industrial visits are arranged by individual course instructor for each course so thatthe students are exposed to actual field environment and opportunities are made to learn from theory to practice. To make the teaching very effective and lively, requiredmodern teaching tools (Computer, LCD, OHP etc.,) are provided in each class roomavailable under the Control of HOD.

46 **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored**?

Teaching Methods adopted are:

The system adopted by the department to meet the objectives of programme andmonitoring learning is as follows:

- The Director of Academic affairs prepares Schedule of teaching, Assessment schedule and Date for End Semester examination for each programme and communicates to the students and faculties through Head of Department.
- HOD nominates Mentor among the course instructors of that class, who advise the students in deciding courses and class works.
- There is a class committee for each programme consisting of class committee chairperson nominated by HOD, faculty members offering

the courses including teaching staffs for the concerned semester and four student representatives of that class. This committee meets within a week of commencement of the semester and decides academic activity, finalises the courses, time table and mode of assessment. This committee monitors teaching and learning of each course by meeting at the end of each assessment period. The committee meets atleast twice before the end semester examination. The short coming if any in teaching, progress of each student, etc are communicated along with list of weaker students to the HOD. HOD takes appropriate steps to sort out the problems if any. He counsels and motivates the poor students to perform well.

- The learning outcome of students is assessed continuously by conducting three assessments and one end semester examination. The internal assessment and end semester carry different weightage (25:75). The performance of students in each assessment is displayed. The students are awarded grades based on their performance and they must earn minimum 50 marks (both internal assessment and end semester examination) out of 100 marks to obtain pass grade.
- Performance of course teacher is evaluated by the students at the end of each semester. Any teacher gests less than 75% is advised and motivated by the university authorities to improve his/her performance.

47. Highlight the participation of students and faculty in extension Activities.

Apart from class room teaching and learning, and students participate themselves in the following extension activities.

- Each UG programme has Department Association in which both faculties and students are members. The activity of the Association is monitored by office bearers consisting of elected student members and a faculty nominated by HOD. Students arrange regular seminars, competition among the students, training for developing soft skills and communication skills etc.
- Students are encouraged to participate in state and national level seminars andconferences.
- Students are encouraged to present their contributions in international forum.
- Students are encouraged to apply for financial support for innovative projects.
- Students are members of NSS, YRC, RRC, Fine arts club. All these clubs are monitored by the members of faculties. The NSS students participate in community development activities and organize exclusive camps with specific objectives. YRC is very active and they organize blood donation and health camps regularly.
- Faculty members are encouraged to do funded research projects and consultancy services. The students are involved in research and consultancy projects of faculty and their support/involvement are rewarded suitably.

- Faculties are encouraged to publish their research works and contributions in international forums.

48. Give details of "beyond syllabus scholarly activities" of the department.

- Conference papers by students and Ph.D scholars.
- Students organize seminars, training programmes, design competition, special lectures etc through department Association with the help of faculty members.
- Participate in state level technical competitions to show case their talents.
- Students publish their contributions in International and National journals and conferences.
- Students obtained national awards for their scholarly research work

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt. of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

To generate new knowledge and innovativeness among students as well as faculty the department organizes guest lectures from eminent personalities, conducts technical symposium, research colloquium which helps students as well as the faculty to update their knowledge. Department of Biomedical Engineering also conducts training programmes for improving the innovative skills of student'sfaculty. Also the staff members motivated to write innovative projects and apply to different organizations which provide funding for research projects and also provide all the facilities to complete their projects

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- Availability of 7 doctorates in the department
- Presence of funded projects from DST, DBT and TNSCST
- Highly commendable publications by the faculty members in the last three years
- State of art laboratory facility including CATH Lab
- Availability of training facility at NIMS Hospital, Neyyatinkara

Weaknesses:

- Lack of PG course in the Department

- Administrative responsibilities are more for faculty members.
- Limited funding for research and little scope for participation in international level research and consultancy.

Opportunities:

- Good laboratory facility with equipment available in big hospitals

Challenge:

- To place the students in reputed industries

52. Future plans of the department.

- To sign MoU's with renowned International Institutions
- To start an international journal on Recent Trends in Biomedical.
- To conduct an IEEE International Conferences
- To file patent from the projects done by the students
- To improve the campus placements

Department Evaluative Report

Department of Computer Science and Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Computer Science and Engineering
Evaluative Report

1. **Name of the Department** **:** Computer Science and Engineering

2. **Year of establishment** **:** 1989

3. **Is the Department part of a School/Faculty of the university :**
Faculty of Computer and Information Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

UG: B.E Computer Science and Engineering
PG: M.E Computer Science and Engineering
Ph.D: Computer Science and Engineering

5. **Interdisciplinary programmes and departments involved :**
The following courses offered in various departments:

Sl. No	Subject	Programme
1	MA1201 Engineering Mathematics III	S3 BE
2	IT1201 Computer Architecture	S3 BE
3	EC1218 Digital Principles and Design	S3 BE
4	MA201 Applied Mathematics III	S3 BE
5	EC217 Digital Principles and Design	S3 BE
6	EG251 Career Skills-I-non-academic	S3 BE
7	MS1201 Environmental Science	S4 BE
8	MA1205 Probability Queuing Theory	S4 BE
9	EE1215 Electrical Engineering and Control Systems	S4 BE
10	MA205 Probability Queuing Theory	S4 BE
11	EE219 Electrical Engineering and Control Systems	S4 BE
12	IT2A4 Embedded Systems	S4 BE
13	EG252 Career Skills-II –non-academic	S4 BE
14	MS1202 Professional and Business Ethics	S5 BE
15	MA1207 Discrete Mathematics	S5 BE
16	MS101 Environmental Science	S5 BE
17	MA207 Discrete Mathematics	S5 BE
18	IT205 Microprocessor and Microcontroller	S5 BE
19	IT272 Microprocessor & Microcontroller Lab	S5 BE
20	EG253 Presentation Skills-I –non-academic	S5 BE
21	IT1212 Cyber Security	S6 BE
22	MS102 Professional and Business Ethics	S6 BE
23	EG254 Presentation Skills-II –non-academic	S6 BE
24	MS103 Principles of Management	S7 BE

6. Courses in collaboration with other universities, industries, foreign institutions, etc :

(i) Collaboration with IBM for conducting DB2, RAD and RFT courses for faculties and students.
(ii) Collaboration with Infosys for conducting Campus Connect Program to the faculties.
(iii) Collaboration with ICTACT Academy for conducting training Programs to faculties.

7. Details of programmes discontinued, if any, with reasons :

NIL

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester wise-Choice based credit system.

9. Participation of the department in the courses offered by other departments :

Faculty members handling courses offered by CSE department in various other departments.

Academic Year	Subject Code and Name	Class	Department
2009-2010	CS101-Fundamentals of Computing and Programming	S1 BE	First Year
2010-2011	CS208 - Computer Science	S2 BE	Marine
	CS101-Fundamentals of Computing and Programming	S1 BE	First Year
2011-2012	CS101-Fundamentals of Computing and Programming	S1 BE	First Year
2012-2013	CS101-Fundamentals of Computing and Programming	S1 BE	First Year
	CS208- Computer Science	S2 BE	Marine
	CS207- Computer Networks	S6 BE	Bio Medical
2013-2014	CS1101 - Fundamentals of Computing and Programming	S1 BE	First Year
	CS1201- Object Oriented Programming	S3 BE	EEE

	CS208- Computer Science	S2 BE	Marine
2014-2015	CS1101-Fundamentals of Computing and Programming	S1 BE	First Year
	CS1201- Object Oriented Programming	S3 BE	EEE
	CS208 - Computer Science	S2 BE	Marine
	CS207- Computer Networks	S6 BE	Bio Medical

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	3	3
Associate Professors	3	3	3
Asst. Professors	11	11	11
Others (Lab.Asst)	3	3	3

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Sl. No	Name	Qualification	Designation	Area of Specialization	No. of Years of experience	No. of Ph.D/ M.Phil students guided for the last 4 yrs
1	Dr. A. Shajin Nargunam	M.C.A., M.E., Ph.D (NITC)	Professor	Ad Hoc and MANET	17.8	8
2	Dr. Julia Punitha Malar Dhas	B.E., M.E., Ph.D.	Professor	Wireless & Networks Communication	15.6	8
3	Dr. J. Amar Pratap Singh	B.E., M.E., Ph.D.	Professor	Wireless Networks	18	4
4	Mrs. R. Chitra	B.E., M.E., (Ph.D)	Associate Professor	Data Mining with Soft Computing	12.5	Nil

5	Dr. R. Kalaiselvi	B.E., M.E., Ph.D.	Associate Professor	Grid Computing	14.1	Nil
6	Dr. J. Dheeba	B.E., M.E., Ph.D.	Assistant Professor	Medical Imaging	8	3
7.	Mrs. S. Vinila Jinny	B.E., M.E., (Ph.D.)	Assistant Professor	Data Mining	9.5	Nil
8	Mr. C. P. Maheswaran	B.E., M.E., (Ph.D.)	Assistant Professor	Cellular Networks	9.2	Nil
9	Mrs. R. Suji Pramila	B.E., M.E., (Ph.D.)	Assistant Professor	Wireless Networks	10.7	Nil
10	Dr. J. E. Judith	B.E., M.E., Ph. D.	Assistant Professor	Data Mining	11.4	Nil
11	Mrs. Fathima Nisha	B.E., M.E.,	Assistant Professor	Nil	6	Nil
12	Mrs. P.O.Sinciya	B. Tech., M.E., (Ph.D.)	Assistant Professor	Data Mining	8	Nil
13	Dr. K. S. Angel Viji	B.E., M.E., Ph. D.	Assistant Professor	Digital Image Processing	8	Nil
14	Mrs. G. Venifa Mini	B.E., M.E., (Ph.D.)	Assistant Professor	Cloud Computing	10.8	Nil
15	Mrs. A. Anitha	B.E., M.E., (Ph.D.)	Assistant Professor	Wireless Networks	7.6	Nil
16	Mrs. I. Berin Jeba Jingle	B. Tech., M.E., (Ph.D.)	Assistant Professor	Data Mining	7.6	Nil
17	Mrs. Chithra D. Gracia	B.E., M.E. (Ph.D.)	Assistant Professor	Wireless Networks	10	Nil
18	Mrs. B. S. Deepa Priya	B.E., M.E., (Ph.D.)	Assistant Professor	Wireless Sensor Networks	9	Nil
19	Mr. P. Venkadesh	B.E., M.E., (Ph.D.)	Assistant Professor	Wireless Networks	11.8	Nil

Faculty profile associated with Mechanical Engineering :

Sl. No	Name	Qualification	Designation	Area of Specialization	No. of Years of experience	No. of Ph.D/M.Phil students guided for the last 4 yrs
1	Mrs. A. M. Anusha Bamini	B.E., M.E., (Ph.D.)	Assistant Professor	Cloud Computing	5	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

NIL

13. Percentage of classes taken by temporary faculty – programme-wise information :

Sl.No	Programme	Faculty	Percentage
1	CSE	Research Scholar	20

14. Programme-wise Student Teacher Ratio

Total sanctioned student strength:

Sl.No	Programme	Student Staff Ratio
1	BE	15:1
2	ME	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

No of Faculty / Grade	Technical	Administrative
Actual	3	1
Filled	3	1
Sanctioned	3	1

16. Research thrust areas as recognized by major funding agencies :

The faculty of CSE are engaged in various thrust areas of research supported by NICHE foundation.

Sl.No	Area
1	Computational intelligence and algorithms • Natural Language Processing

	• Pattern recognition, • Intelligent Algorithms in Medical Image Analysis.
2	Data management and Information Security • Big Data • Hadoop • Map Reduce • Cryptographic Algorithms • Authentication Protocols • Malware Protection • Integrity Protocols • Computer Forensics • Processor based Security Management.
3	Wireless Sensor Networks and Network Security • Intrusion detection System • Routing Protocols • Congestion Control • Biometric authentication and Power management
4	Cloud Computing • Securing Cloud Data • Cloud Scheduling • Resource allocation in cloud • Information/Data Sharing in cloud.

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :**

Sl. No	**Name of the principal Investigator**	**Title of the Proposal**	**Scheme under which Proposal is Submitted**	**Year of Submission**	**Registration No.**	**Funding Agency**
1.	Dr. J. Dheeba	Automated Computer Aided Screening for Sight-Threatening Diabetic Retinopathy in Color	SERB Fast Track Proposal for Young Scientists/ Start-Up Research Grant (Young Scientists)	2014	SERB/ET-0043/2014	DST

		Digital Fundus Photographs using Intelligent Core Vector Machine Classifier				
2.	Dr. A. Shajin Nargunam	Nano-Satellite Based Environmental monitoring	Ministry of Environment and Forest	2013	NI/RG/13/GA/127	Ministry of Environment and Forest
3	Dr. A. Shajin Nargunam	Proposal for Centre for Excellence for Nano Satellite Based Environmental Monitoring	FAST	2013	-	MHRD, GOI

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration:

b) International collaboration: Nil

Sl. No	Name of the PI & Co-PI	Title of the Project	Grant Received	Year of Submission	Registration No.	Funding Agency
1.	Dr. J. Dheeba Kannan J. Nair	Energy Efficient Automated Power Management System	Rs.5000/-	2011	SPP/1/233	ICTACT
2.	Mr. Victor	Implementation of virtual	Rs.6000/-	2011	SPP/1/234	ICTACT

	Jose S. Sathya	database engine for high performance distributed data integration using had oop -map reduce				

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Sl. No	Name of the Principal Investigator	Title of the Project	Grant Received	Duration	Funding Agency
1.	Dr. E. Arun	Construction of Novel-Assembler for Reduction of Handoff Delays in WLAN	Rs. 2,30,000	2010-2012	AICTE

20. Research facility / centre with

- **state recognition**
- **national recognition**
- **international recognition**

Sl. No.	Lab Name	Recognition
1.	NIUSAT Centre	National

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Sl. No.	Lab Name	Software	Industry/ Corporate
1.	Database Management Lab	DB2	IBM
2.	Software Testing Lab	RFT	IBM
3.	Case Tools Lab	Rational Rose	IBM
4.	Open Source Lab	Linux	ICTACT

22. Publications:

- **Number of papers published in peer reviewed journals (national / international): 59**
- **Monographs:** Nil
- **Chapters in Books:** 1
- **Edited Books:** 2

- **Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):** 50
- **Citation Index – range / average**: Nil
- **SNIP**
- **SJR**
- **Impact Factor – range / average :** 0.5

Papers published in peer reviewed journals:

Name	Title of the paper	Name of the Journal	Year	SNIP	SJR	Impact Factor	H-Index
Dr. Julia Punitha Malar Dhas	An efficient traffic scheduling for wireless networks using fuzzy logic	IETECH Journal of Communication Techniques	2009	-	-	0.423	-
Dr. Julia Punitha Malar Dhas	An efficient adaptive scheduling algorithm for wireless networks	Intl. Journal of Image Processing and Networking Techniques	2009	-	-	0.37	-
Dr. A. Shajin Nargunam	Self-Organized QOS Aware Multicast Routing Scheme for Adhoc Networks	International Journal of Computer Application	2010	0.487	0.030	0.835	4.9
Dr. A. Shajin Nargunam	Cluster-Based MANET Multicast Routing Scheme	International Journal of Computer and Application	2010	0.487	0.030	0.835	4.9
Dr.A. Shajin Nargunam	A Novel Architecture for Hybrid Processor Pool Model Using IITPS Scheme	International Journal of Computers and Application	2012	0.487	0.030	0.835	4.9
Dr.A. Shajin Nargunam	Compatibility of Hybrid	International Journal of	2012	0.487	0.030	0.821	4.9

	Process Scheduler in Green IT Cloud computing Environment	Computer Application					
Dr.A. Shajin Nargunam	A Novel Architecture for Hybrid Processor Pool Model Using IITPS Scheme	International Journal of Computer Application	2012	0.487	0.030	0.821	4.9
Dr. A. Shajin Nargunam	Optimal Resource Allocation Technique for Green Cloud Computing Environment	International Journal of Computer Application	2012	0.487	0.030	0.821	4.9
Dr. A. Shajin Nargunam	Power and Time Efficient Structural Cloud for Hierarchical Peer to Peer Networking	International Journal of Computer Application	2012	0.487	0.030	0.821	4.9
Dr. A. Shajin Nargunam	Distributed Cluster based Routing Scheme for MANETs,", Vol. 2, No.1, pp.24-34	*Journal of Computer Science (JCS)*	July-August 2006				
Dr. A. Shajin Nargunam	Fully Distributed Security Architecture for MANET Vol. 1, No.2, pp.164-172	*International Review on Computers and Software (IRECOS), Italy*	September 2006			0.8	
Dr. A. Shajin Nargunam	Security Aware Routing Protocol for MANETs	*International Journal of Information Acquisition*	2006			0.5	

	Vol. 3, No. 3, pp.233–245						
Dr. A. Shajin Nargunam	*"Hierarchical Multicast Routing Scheme for MANET"*	Lecture Notes in Computer Science Springer-Verlag Berlin Heidelberg	2007			0.737	
Dr. A. Shajin Nargunam	QoS Aware Multicast Routing for MANETs Vol. 4, Issue 2, pp. 1-21	*International Journal of Business Data Communications and Networking*	June 2008			0.2	
Dr. A. Shajin Nargunam	Optimal Resource Allocation Technique (ORAT) for Green Cloud Computing *Volume 55– No.5*	International Journal of Computer Applications (0975 – 8887)	October 2012			0.814	
Dr. A. Shajin Nargunam	A Survey on Effective in-Home Health Monitoring System, *Volume 68– No.7*	International Journal of Computer Applications (0975 – 8887)	April 2013			0.814	
Dr. A. Shajin Nargunam	Recital Scrutiny of Multimodal Biometric Based Authentication System by Diverse Fusion Method	CiiT International Journal of Biometrics and Bioinformatics	2012				

Dr. A. Shajin Nargunam	Similarity Distance Based Clustering Framework for Aggregation of Web Usage Data	International Review on Computers and Software (287 to 295)	January 2013			0.360	
Dr. A. Shajin Nargunam	A Survey on Effective in-Home Health Monitoring System	International Journal of Computer Applications (0975 – 8887) Volume 68– No.7, April 2013	2013				
Dr. A. Shajin Nargunam	NANO SATELLITE BASED ENVIRONMENTAL MONITORING	65th International Astronautical Congress, Toronto, Canada. Copyright ©2014 by the International Astronautical Federation	2014				
Dr. A. Shajin Nargunam	Secure Patient Monitoring System	Journal of Theoretical and Applied Information Technology 10th April 2014 Vol. 62 No. 1	2014				

Dr. A. Shajin Nargunam	Secret Key Sharing in Networks Using Classical Cryptography Based Quantum Stratagem Approach	Power Electronics and Renewable Energy Systems, Lecture Notes in Electrical Engineering, Springer India	2014				
Dr. A. Shajin Nargunam	A Novel Hybrid Technique for Secret Key Sharing in Networks	International Journal of Computer Applications	2014				
Dr. A. Shajin Nargunam	Multimodal Biometric Authentication System Based Performance Scrutiny	International Journal of Soft Computing	2014				
Dr. A. Shajin Nargunam	An Adaptive Fuzzy Approach for Predicting Web User Behaviors	International Journal of Applied Engineering Research (IJAER)	2014				
Dr. A. Shajin Nargunam	On Evaluate Authentication Performances Of Multimodal Biometrics Fusion Schemes	International Journal of Applied Engineering Research (IJAER)	2014				
Dr. A. Shajin Nargunam	Automatic Segmentation of Intervertebral Disc of Cervical	International Journal of Applied Engineering Research (IJAER)	2014				

	Spine Using Morphological Operation						
Dr. A. Shajin Nargunam	Video Steganography Algorithm for Embedding Data into Raw Video Streams Using Discrete Cosine Transform	Applied Information and Digital Image Technologies, Control and Power Engineering	2014				
Dr. A. Shajin Nargunam	Video Steganography Algorithm for Embedding Data into Raw Video Streams Using Discrete Cosine Transform	Applied Mechanics and Materials, Vol. 626, pp. 58-64	2014				
Dr. A. Shajin Nargunam	Automatic Segmentation of Interverterbral Disc of Cervical Spine Using Morphological Operation Spine Unisi	International Journal of Applied Engineering Research	2014				
Dr. A. Shajin Nargunam	A study on Medical Data Hiding Using Wireless Capsule Endoscopy	Artificial Intelligence and Evolutionary Algorithms in Engineerin	2015				

		g Systems - Advances in Intelligent Systems and Computing, Springer India 2015 - Volume 2					
Dr. A. Shajin Nargunam	Nano Silver Based Low Profile Monopole Antenna	International Journal of Applied Engineering Research	2015				
Dr. A. Shajin Nargunam	Nano Silver Based Low Profile Folded Dipole Paper Antenna for High Frequency Application	Australian Journal of Basic and Applied Science	2015				
Mr. P. Venkadesh	An Enhanced Framework Model for Secure Key Management in Stream Control Transmission Protocol	CIIT - International Journal of Networking and Communication Engineering	2013	1.503	0.707	0.569	53
Mr. P. Venkadesh	A Framework Model for Secure Key Management and Hidden Digital Signature Method to Enhance Security in SCTP	Archives Des Sciences Journal	2013	0.120	0.24	0.536	9
Dr. Julia Punitha Malar Dhas	An improved light-weight matchmaking mechanism	Malaysian Journal of Science	2014	-	0.1	-	5

	for discovering Owl-S services based on sparql, bipartite and nlp approach						
Dr. Julia Punitha Malar Dhas	A Multi-level Security Mechanism for Secure Data Transmission in SCTP	Research Journal of Applied Sciences, Engineering and Technology	2014	-	0.16	0.501	10
Mrs. R. Chitra	Risk Prediction of Heart Disease Based on Swarm Optimized Neural Network	Advances in Intelligent Systems and Computing (Springer)	2014	-	-	-	-
Dr. J. Dheeba	Breast Cancer Diagnosis: An Intelligent Detection System Using Wavelet Neural Network	Advances in Intelligent Systems and Computing	2014	-	-	-	-
Mr. C. P. Maheswaran	3.Network Selection Mechanism for Future Generation Networks Using Game Theory Model	Advances in Intelligent Systems and Computing	2014	-	-	-	-
Mrs. R. Suji Pramila	Secure Patient Monitoring System	Journal of Theoretical and Applied Information Technology	2014	0.655	0.15	0.193	9
Mrs. R. Suji	Security enhanced	HealthMED	2014		0.11	0.435	6

Pramila	automated in-home patient monitoring system						
Mrs. J. E. Judith	RT and EJPS: Networking Through Sapiens and protecting the Sapiens	International Joural of Computer Applications	2014	0.487	0.030	0.715	4.9
Mrs. J. E. Judith	Distributed Text Clustering Algorithm Based on Mapreduce	International Journal of Applied Engineering & Research	2014	-	-	-	-
Mrs. Anitha. A	Performance Analysis of WLAN under Variable Number of Nodes Using the Adjustable Parameters in EDCA	Journal of Theoretical and Applied Information Technology	2014	0.655	0.15	0.193	9
Mrs. Anitha. A	Performance Analysis of EDCA Under Light, Heavy and variable Data Sources	Advances in Intelligent Systems and Computing (Springer)	2014	0.204	0.135	-	-
Mr. P. Venkadesh	A Multi-level Security Mechanism for Secure Data Transmission in SCTP	Research Journal of Applied Sciences, Engineering and Technology	2014	-	0.16	0.501	10
Mrs. I. Berin Jeba Jingle	Markov Model for Discovering Knowledge in Text Document	Journal of Theoretical and Applied Information Technology	2014	0.655	0.15	0.193	9
Dr. Julia	A hybrid	WSEAS	2015	-	0.2	-	14

Punitha Malar Dhas	approach for discovery of OWL-S services based on functional and non functional properties	Transactions on Computers			3		
Mrs. J. E. Judith	An efficient hybrid distributed document clustering algorithm	Scientific Research And Essays	2015	0.74	0.17	0.32	18
Mrs. J. E. Judith	Optimized Distributed Text Document Clustering Algorithm	Advances in Intelligence and Evolutionary Algorithms in Engineering Systems	2015	-	-	-	-
Mrs. Vinila Jiny	Encrusted CRF in Intrusion Detection System	Advances in Intelligence and Evolutionary Algorithms in Engineering Systems	2015	-	-	-	-
Mrs. Anitha. A	Vertical Handoff Scheme in Integrated WiMAX and WLAN Networks	Advances in Intelligence and Evolutionary Algorithms in Engineering Systems	2015	-	-	-	-
Dr. J. Dheeba	Improving the quality of retinal fundus	Int. J. of Applied Engineerin	2015	0.57	0.13	-	5

	images using sobel edge detection method for exudates detection	g Research					

Chapters in Books:

Sl. No.	Author	Title	ISBN	Publisher	Vol./Year
1	Dr. J. Dheeba	Computer Aided Intelligent Breast Cancer Detection: Second Opinion for Radiologists—A Prospective Study	978-3-319-11016-5	Springer	575/2015

Edited Books:

Sl. No	Author	Title	ISBN	Publisher
1	Dr. R.Kalai Selvi Prof.C.P.Maheswaran Prof.R.Suji Pramila	Fundamentals of Computing and Programming	978-81-8472-182-9	Anuradha Publishers
2	Dr. R.Kalai Selvi Prof.C.P.Maheswaran Prof.R.Suji Pramila	Fundamentals of Computing and Programming	978-93-84295-07-3	R.K. publishers

23. Details of patents and income generated :

Sl. No	Patent Name	Duration	Register Number	Sanctioned by
1.	Artificial Visual Implant Device (AVID)	2006-2024	F. 8-123/2006 (CPP-I)	-

Publication of Dr. A. Shajin Nargunam cited as the key reference in the US Patent No. : US 8,726,041 B2 dated May 13, 2014

24. Areas of consultancy and income generated :

Sl. No	Program	Consultancy	Developed by
1.	Hospital Management	Siva Clinic	Third Year

	System		Miniproject
2.	Website	Blue Chip Technologies	Final Year
3.	Bio-Informatics System	EGA Solutions	Final Year

25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad :

Sl.No	Faculty Name	Date	Place of visit
1.	Ms.K.S.Angel Viji Ms.P.O.Sinciya Mr.C.P.Maheswaran	6/03/2015	ISRO, Mahendragiri, Tirunelveli
2.	Ms.J.E.Judith Ms.K.S.Angel Viji Mr.C.P.Maheswaran Mr.P.Venkadesh	14/03/2014	NeST Technologies, Techno park, Trivandrum
3.	Mr.C.P.Maheswaran Mr.P.Venkadesh Ms.Berin Jeba Jingle	19/03/2013	UST Global, Techno park, Trivandrum
4.	Ms.R.Chitra Dr.J.Dheeba Mr.P.Venkadesh	3/04/2012	Photo Limited, Kodaikanal.
5.	Mr.C.P.Maheswaran Mr.P.Venkadesh Ms.R.Suji Pramila Ms.A.M.Anusha Bamini	15/02/2011	Deonet System Technical Support and Software Development Pvt Ltd, Kollam
6.	Mr.P.Venkadesh Ms.P.O.Sinciya Ms.G.Venifa Mini Mr.M.Victor Jose	19/10/2010	UST Global ,Techno park, Trivandrum
7.	Dr. A. Shajin Nargunam		SAC - ISRO, Ahmadabad
8.	Dr. A. Shajin Nargunam		Data Patterns, Chnnai
9.	Dr. A. Shajin Nargunam		ISAC -ISRO Bangalore
10.	Dr. A. Shajin Nargunam		ISRO- Trivandrum

26. Faculty serving in

a) **National committees b) International committees c) Editorial Boards d) any other (please specify)** :

Sl. No	Name	Reviewer Since (Year)	Journal Name	Publisher
1.	Dr. Julia Punitha Malar Dhas	2011	Journal of Medical Systems	Springer
2.	Dr. J. Dheeba	2012	National Academy Science Letters	Springer
3.	Dr. J. Dheeba	2013	Computers in Biology and Medicine	Elsevier
4.	Dr. J. Dheeba	2014	Artificial Intelligence in Medicine	Elsevier
5.	R. Chitra	2013	Computational Intelligence	Wiley
6.	Dr. A. Shajin Nargunam	2009	International Journal of Computer Applications	ACTA Press
7.	Dr. A. Shajin Nargunam	2013	British Journal of Mathematics & Computer Science	SCIENCEDOMAIN *international*
8.	Dr. A. Shajin Nargunam	2013	Asian Journal of Mathematics and Computer Research	International Knowledge Press
9	Dr. A. Shajin Nargunam	2006	Journal of Wireless Communication and Mobile Computing	-

Faculty members have been honoured by being nominated as peer reviewers of technical papers for reputed journals, keynote speakers, session chairpersons or invited speakers at many of the national and international symposia and conferences. Some of the prominent ones are:

Faculty Member	Key Committees
Dr. A. Shajin Nargunam	***Conference Chair and Reviewer :*** ICCCCT'10 International Conference on Communication Control and Computing Technologies, 2010. **Reviewer and Chair Person** for the IEEE

	Sponsored International Conference ICAEAS 2015, Noorul Islam Univeristy **Reviewer and Chair Person** for the IEEE Sponsored International Conference ICCPCT 2015, Noorul Islam University **Reviewer and Chair Person** for the Springer Sponsored International Conference ICSCS 2015, Noorul Islam University **Reviewer and Chair Person** for the IEEE Sponsored Conference ICBDM-2015, Noorul Islam University. **Reviewer and Chair Person** for the IEEE sponsored International conference ICBDM-2014, Noorul Islam University. **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", to be conducted by the Department of EEE, Noorul Islam University. **Reviewer and Chair Person** for the IEEE Conference, "International conference on Information and communication Technology, ICT-2013", conducted by the Department of ECE, Noorul Islam University. Reviewer and Chair person for IEEE International Multi Conference on Automation Computing, Control and Compressed Sensing (iMac4s 2013), IEEE Kerala Sessions. **Reviewer** for the International Conference on Computing Terminologies and Research Development organized by SCAD College of Engineering and Technology, Tirunelveli. **Reviewer and Chair Person** for the IEEE Conference, "International Conference on Circuit, Power and Computing Technologies, ICCTPCT-2013", conducted by the Department of EEE. **Chairperson** for IEEE International Conference at Noorul Islam University conducted by the Department of EEE on 2012. **Chairperson** for IEEE International Conference at Noorul Islam University conducted by the Department of Mechanical on 2012.
Dr. A. Shajin Nargunam	**Resource Person** ***Invited Talk:*** Virtual Private Network, AICTE Sponsored Faculty Development Program, Noorul Islam College of Engineering,

	2005. ***Invited Talk:*** Network Simulator, AICTE Sponsored Faculty Development Program, Noorul Islam College of Engineering, 2006. ***Invited Talk:*** Wireless Networks – Simulation Study, St. Xavier's Catholic College of Engineering, Chunkankadai, 2008. ***Workshop:*** Network Simulator – NS2, organized by The Institution of Engineering and Technology, NICE Students Chapter, 2008. ***Invited Talk:*** Wireless Communication**,** University Level Conference, Noorul Islam College of Arts and Science, 2009. ***Invited Talk:*** Wireless Ad Hoc Networks – Issues and Challenges, *Francis Xavier Engineering College*, Tirunelveli, Tamilnadu, 2009. **Invited Talk:** Next Generation Computers , Malankara Cahoic College, 2011 **Invited Talk:** National Seminar on Recent Trends in Information Technology, on 6 February 2013 at NATIONAL INSTITUTE OF SPEECH & HEARING TRIVANDRUM KERALA **Invited Talk:** SHORT TERM TRAINING PROGRAMME ON COMMUNICATION NETWORKS AND SECURITY on 27th February 2013 at Government Engineering, College Wayanad, Mananthavady, Kerala Invited Talk: ISTE-SRM University Sponsored STTP on High Speed Networks organized by National Engineering College, Kovilpatti on 11.06.2014. **Invited Talk:** ISTE Sponsored Short term Training Programme on High Speed Networks organized by National Engineering College, Kovilpatti on 11.06.2014 Invited talk: Cryptology Research Society of India, Kolkata Sponsored Workshop on Formal Methods in Cryptography, at National Engineering College, Kovilpatti on 08-01-2015.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

2015-2016

Sl. No.	Name of the Faculty	Nature of the Refreshment Programme	Title	Duration of the Programme	Venue
1	Mrs. Berin Jeba Jingle.I	FDP	Android Application	06-07-2015 to 10-07-2015	St.Xaviers Catholic College of Engg, Chunkankadai
2	Mrs. R.Chitra	Orientation	Faculty Orientation Program	09-06-2015 to 11-06-2015	Noorul Islam University
3	Mrs. Kalai Selvi.R	Orientation	Faculty Orientation Program	09-06-2015 to 11-06-2015	Noorul Islam University
4	Dr.Dheeba.J	Orientation	Faculty Orientation Program	09-06-2015 to 11-06-2015	Noorul Islam University

2014 – 2015

Sl. No.	Name of the Faculty	Nature of the Refreshment Programme	Title	Duration of the Programme	Venue
1	Mrs. Berin Jeba Jingle.I	Seminar	Ethical Hacking	19-02-2015	Noorul Islam University
2	Mrs. B.S.Deepa Priya	Seminar	Ethical Hacking	19-02-2015	Noorul Islam University
3	Mr.Venkadesh.P	Seminar	Ethical Hacking	19-02-2015	Noorul Islam University
4	Mrs. A.M.Anusha Bamini	Seminar	Ethical Hacking	19-02-2015	Noorul Islam University

2013 – 2014

Sl. No.	Name of the Faculty	Nature of the Refreshment Programme	Title	Duration of the Programme	Venue
1	Mr.Venkadesh.P	Workshop	Business Application for New Generation	28-03-2014 to 29-03-2014	Noorul Islam University

			Cloud Computing		
2	Mrs. A.M.Anusha Bamini	Workshop	Knowledge Discovery for Research Application	24-03-2014	Noorul Islam University
3	Mrs. A.M.Anusha Bamini	Workshop	Business Application for New Generation Cloud Computing	28-03-2014 to 29-03-2014	Noorul Islam University
4	Mrs.G.Venifa Mini	FDP	Cloud Infrastructure as a Service	20-01-2014 to 24-01-2014	St.Xaviers Catholic Collece of Engg, Chunkankadai
5	Mrs.A.M.Anusha Bamini	FDP	Cloud Infrastructure as a Service	20-01-2014 to 24-01-2014	St.Xaviers Catholic Collece of Engg, Chunkankadai
6	Mrs. R.Chitra	Workshop	Medical Image Processing Using MATLAB	23-08-2013 to 24-08-2013	Noorul Islam University
7	Mrs. S.Vinila Jinny	Workshop	Data Mining & Weka	17-10-2013	St. Xavier's Catholic College of Engg, Chunkankadai
8	Mrs. S.Vinila Jinny	Workshop	LaTeX	25-10-2013 to 26-10-2013	Noorul Islam University
9	Dr.Dheeba.J	Workshop	Big Data Analytics	29-08-2013	Noorul Islam University
1	Mrs. J.E.Judith	Workshop	WEKA – Data Mining Tools for Research	06-08-2013	Kongu Engineering College
1	Mrs. J.E.Judith	Workshop	Big Data	29-08-2013	Noorul Islam University
1	Mrs. J.E.Judith	Workshop	LaTeX	25-10-2013 to 26-10-2013	Noorul Islam University
1	Mrs. R.Suji Pramila	Workshop	Big Data	29-08-2013	Noorul Islam University

1	Mrs. R.Suji Pramila	Workshop	Simulation and Emulation of Sensor Network	24-10-2013 to 26-10-2013	Kongu Engineering College
1	Mrs. K.S.Angel Viji	Workshop	Medical Image Processing Using MATLAB	23-08-2013 to 24-08-2013	Noorul Islam University
1	Mrs. K.S.Angel Viji	Workshop	LaTeX	25-10-2013 to 26-10-2013	Noorul Islam University
1	Mrs. A.Anitha	Workshop	Simulation of Wireless Network Using NS-2	26-09-2013 to 27-09-2013	St. Xavier's Catholic College of Engg, Chunkankadai
1	Mrs. A.Anitha	Workshop	LaTeX	25-10-2013 to 26-10-2013	Noorul Islam University
1	Mrs. B.S.Deepa Priya	Workshop	Big Data	29-08-2013	Noorul Islam University
2	Mrs. B.S.Deepa Priya	Workshop	Simulation and Emulation of Sensor Network	24-10-2013 to 26-10-2013	Kongu Engineering College
2	Mr.Venkadesh.P	Workshop	Big Data	29-08-2013	Noorul Islam University
2	Mrs. A.M.Anusha Bamini	Workshop	Big Data	29-08-2013	Noorul Islam University
2	Mrs. A.Anitha	FDP	Infosys Campus Connect	17-06-2013 to 21-06-2013	Toch Institute of Technology, Ernakulam

2012 – 2013

Sl. No.	Name of the Faculty	Nature of the Refreshment Programme	Title	Duration of the Programme	Venue
1.	Mrs. R.Chitra	Seminar	Recent Issues in	15-02-2013 to 16-02-	Einsten College of

			Generation of Virtual Brain Using DNA Based Computing in Cellular Neural Networks	2013	Engg, Tirunelveli
2.	Mrs. S.Vinila Jinny	Workshop	Big Data Analytics	19-04-2013 to 20-04-2013	VIT University, Vellore
3.	Mrs. J.E.Judith	Workshop	Big Data Analytics	19-04-2013 to 20-04-2013	VIT University, Vellore
4.	Mrs. K.S.Angel Viji	Workshop	Hands on MATLAB Training Program on Intelligent System Design	11-04-2013 to 12-04-2013	University College of Engineering, Nagercoil
5.	Mrs. G.Venifa Mini	Workshop	Big Data Analytics	19-04-2013 to 20-04-2013	VIT University, Vellore
6.	Mrs. G.Venifa Mini	Seminar	Cloud Computing Tools	11-05-2013	Arunachala College of Engg
7.	Mrs. A.M.Anusha Bamini	Seminar	Cloud Computing Tools	11-05-2013	Arunachala College of Engg
8.	Mrs. G.Venifa Mini	Workshop	Cloud Computing	27-07-2012	Thangal Kunju Musaliar College of Engg,Kollam
9.	Mrs. R.Chitra	Workshop	Research Project Writing	21-08-2012	Noorul Islam University
10.	Mrs. R.Chitra	Workshop	Engineering Optimized and Approaches	24-08-2012 to 25-08-2012	National Institute of Technology, Tirchy
11.	Mrs. R.Chitra	Seminar	NS2 and MATLAB	12-10-2012 to 13-10-2012	Einstein College of Engineering

2011- 2012

Sl. No.	Name of the Faculty	Nature of the Refreshment Programme	Title	Duration of the Programme	Venue
	Mrs. B.S.Deepa Priya	FDP	Campus Connect	25-06-2012 to 29-06-2012	Infosys Limited, Trivandrum Development Centre

28. Student projects :

- **percentage of students who have done in-house projects including inter-departmental projects**
- **percentage of students doing projects in collaboration with other universities /industry / institute**

	2009-2010 (Students in %)		2011-2012 (Students in %)		2012-2013 (Students in %)		2013-2014 (Students in %)		2014-2015 (Students in %)	
	In-house	Other institution/industry	In-house	Other institution/industry	In-house	Other institution/industry	In-house	Other institution/industry	In-house	Other institution/industry
BE	78	22	84	16	90	10	95	5	90	10
ME	85	15	89	11	92	8	96	04	100	-

29. Awards / recognitions received at the national and international level by :

- **Faculty(2009-2014)**

Sl.No	Name of the Faculty	Award/recognition
2009-2010	Ms. J. E. Judith	Best teaching faculty
	Ms. S. Vinila Jinny	Best teaching faculty

	Ms. Angel Viji	Best teaching faculty
2010-2011	Ms. R. Chitra	IBM Recognition
	Ms. J. Dheeba	IBM Recognition
2011-2012	Ms.G. Venifa mini	IBM Recognition
	Ms. I. Berin Jeba Jingle	IBM Recognition
2012-2013	Ms.B.S. Deepa Priya	INFOSYS Recognition
	Ms. P. O. Sinciya	INFOSYS Recognition
	Ms. A. Anitha	INFOSYS Recognition
	Mr. C. P. Maheswaran	INFOSYS Recognition
2013-2014	Ms.G. Venifa mini	ICTACT Recognition
	Ms.A.M.Anusha Bamini	ICTACT Recognition
	Dr. A. Shajin Nargunam	Bets Project Paper Award " NANO SATELLITE BASED ENVIRONMENTAL MONITORING" presented in the 65th International Astronautical Congress 2014, 21st IAA SYMPOSIUM ON SMALL SATELLITE MISSIONS
2015-2016	Android Applications	ICTACT Recognition

- **Doctoral / postdoctoral fellows**

Sl.No	Name of Faculty	Discipline	Year
1	Dr. J. Amar Pratap Singh	Ph.D.(CSE)	2013
2	Dr. J. Dheeba	Ph.D.(CSE)	2013
3	Dr. K. S. Angel Viji	Ph.D.(CSE)	2015
4	Dr.R.Kalai Selvi	Ph.D.(CSE)	2015
5	Dr.J.E.Judith	Ph.D.(CSE)	2015

- **Students (2009-2013)**

Sl.No	Name of the Students	Award/recognition
2009-2010	M.Ranjini and	Best paper award
	H.Shahina	Best paper award
2010-2011	J.Kannan	IBM Recognition
	Akshara Anand.S.D	IBM Recognition
	Manjusha.M	IBM Recognition
	Kavya.S.V	IBM Recognition
2011-2012	Ezhalarasi	IBM Recognition
	Rabia Sharmina	IBM Recognition
	Shree Laxmi	IBM Recognition
	Rohini.N	IBM Recognition
	Selva Vinaya	IBM Recognition
	Viji.M	IBM Recognition
2011-2012	Deepthi. M. S	IBM Recognition

	Ajisha	IBM Recognition
	Berjin Shakila	IBM Recognition
	Saranya	IBM Recognition
	Fathima Sundus	IBM Recognition
	Mariya Divya	IBM Recognition
2012-2013	Rexline Suji	IBM Recognition
	Ragavi	IBM Recognition
	Pradeepa	IBM Recognition
	Sarumathi. P	IBM Recognition
	Sahaya Anvilo Preethi	IBM Recognition
	Siva Rani.K	IBM Recognition
	Thanu Kanna.R	IBM Recognition
2013-2014	Lipin Dhas	IBM Recognition
	Shamjas	IBM Recognition
	Thanseera	IBM Recognition
	Aravind Gopal	IBM Recognition
	Parvathi	IBM Recognition
2014-2015	Kowshik	ICTACT Recognition

	Aarthi Krishna	IET Young women Engineer Award
	Janet Bharathi	IET Regularity Award
	Reshmi Vijayan	IET Academic Performance Award

30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any.

Seminars (2009-2015)

Sl.no	Seminar Topic	Date	Presented by	Concern/ institution	Participants
1.	Mobile technology	7/8/2009	Mr.I. Thiruavukarasan	GM/BSNL	Final year students
2.	Recent Developments	20/3/2010	Mr.S.Ingersol	Scientist/ISRO	Final Year students
3.	Recent trends in Mobile communication	14/10/2010	Mr.I. Thiruavukarasan	GM/BSNL	Third year students and ME Students
4.	Cloud computing	12/08/2011	T.L.Neela Venkadesh	Research analyst	Final year students
5.	Academic project presentation	3/10/2011	Abhilash.R.G	Aigner Schreiber resourcing Pvt.Ltd	Final year students
6.	IBM Promotion talk	19/1/2012	Lawrence Mohanraj	Regional Manager/IBM	Third year students
7.	Web development	8/8/2012	Lekshmi.C.A	CEO/Pyrus technologies	Third year students
8.	Personality Development	29/1/2013, 30/1/2013	Dr.N.Shiva Kumar	Shivas foundation	Final year students
9.	Campus Connect	12/7/2013	Mr.Hari Ms.Rashmi	Infosys	Final year students
10.	Placement Training	12/9/2013	Mr.J.Krishnan	RIPE Institute Pvt. Ltd.	Final year students
11.	Animation and designing	7/10/2013	Mr.Vinod Jose	Dreamzone Solutions	Third & Final Year

					Students
12	Software Training	23/10/2013	Mr.Anandh	Apollo Education Trust	Third & Final Year Students
13	Introductory talk on IET	29/1/2014	Mr.Raghavan	IET India	CSE students and Faculty
14	Ethical Hacking	19/2/2015	Dr. A.S. Raja	HoD/CSE, CAPE Institute of Technology	CSE students

Workshops (2009-2013)

Sl. no	Workshop on	Date	Conducted by	Concern/institution	Participants
1.	Emerging trends of Image processing	16/9/2010	Dr.V.Seenivasagam	Professor/National Engg College	Final year and ME students
2.	Kernel configuration, compilation and virtualisation using FOSS Environment	17/8/2011	Dr.Shajulin Benedict	Professor/SXCCE	Final year and ME students
3.	Soft skill	5/9/2011	Mr.Neelambaran	Zonal Training Manager/RIPE Chennai	Final Year CSE
		6/9/2011	Mr.J.Krishnan	Senior Manager/RIPE Chennai	
4	BIG DATA	29/8/2013	Mr.Jayakrishnan	Project Lead,IBS Software Solutions	Faculty and ME student
5	Knowledge Discovery for Research Applications.	24/3/2014	Dr.JesuVedha Nayahi	Professor,Anna University	Faculty from various colleges.
6	Image Processsing and Practical Applications using MATLAB.	21/ 8/2014 & 22/8/2014	Dr.SelDev Christopher	Professor,St.Xaviers Catholic College of Engineering	Faculty from various colleges.
7	Cloud Security	1/4/2014	Dr.V.Cyril Raj	Chairman ,IET CSC	CSE Students

8	Introdution to ANDROID	24/9/2014	Mr.G.Ganesh	HI Tech Solution	Final Year Students
9	HR Skills	12/2/2015	Mr.Cyril Xavier	BSNL	Final Year Students

31. Code of ethics for research followed by the departments:

The University provides a complete protection for the recognition of the right to academic freedom. It provides freedom of investigation, thought, expression, publication of result and peaceful gathering. Academic misconduct is the concept which is seen specifically which shows the deviation from what is generally accepted within the scientific community in the submission, performance and reporting of research. All compensation of value received for services rendered. This consists of salaries or another form of remuneration, such as goods, shares or other items of significant financial value.The conflict of interest arises when the individual's private interest may have doubts to whether the individual's professional actions are influenced by personal consideration and financial. Consultant is very important that means a member of researches who renders advice in their professional field to an outside person, group or organization against payment.

All research projects performed for outside organizations and that are regarded as part of the researcher's service dispensation in terms of the provisions of the Rules for Contract Work of the University. Strict avoidance and faithful documentation of research sources. Any person in full-time or part-time appointment at the University and who is entitled to benefits and/or a salary or wage for his/her defined responsibilities. This may include undergraduate and postgraduate students appointed to perform work as part of a grant or contract and who are fully or partially responsible for reporting on research.

32. Student profile programme-wise:

Year	Name of the Programme	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
2010	BE CSE	92	24	37	92	97
	ME CSE	52	4	29	100	100
	Ph.D. CSE	20	3	7	-	-
2011	BE CSE	126	23	36	89	97
	ME CSE	59	7	26	100	100
	Ph.D. CSE	32	9	11	-	-
2012	BE CSE(AU)	89	15	42	60	96
	BE CSE(NIU)	25	10	-	100	-
	ME CSE	34	5	24	100	100
	Ph.D. CSE	16	3	5	-	-
2013	BE CSE	86	31	26	100	100
	ME CSE	86	12	34	100	100

	Ph.D. CSE	60			-	-
2014	BE CSE	80	26	15	89	100
	ME CSE	25	05	09	100	100
	Ph.D. CSE	40	04	12	-	-
2015	BE CSE	80		41	-	-
	ME CSE	10	-	2		
	Ph.D. CSE	45				

33. Diversity of students

Academic Year 2009-2010

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
U.G.	NIL	100%	NIL	NIL
P.G.	NIL	65%	35%	NIL
Ph.D.	5%	25%	NIL	NIL

Academic Year 2010-2011

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
U.G.	NIL	70%	30%	NIL
P.G.	NIL	69%	31%	NIL
Ph.D.	45%	35%	20%	NIL

Academic Year 2011-2012

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
U.G.	NIL	40%	60%	NIL
P.G.	NIL	66%	34%	NIL
Ph.D.	55%	35%	10%	NIL

Academic Year 2012-2013

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
U.G.	NIL	50%	50%	NIL

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
P.G.	NIL	63%	37%	NIL
Ph.D.	65%	35%	NIL	NIL

Academic Year 2013-2014

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
U.G.	NIL	35%	65%	NIL
P.G.	NIL	50%	50%	NIL
Ph.D.	20%	15%	65%	NIL

Academic Year 2014-2015

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
U.G.	NIL	45%	55%	NIL
P.G.	50%	50%	NIL	NIL
Ph.D.	20%	15%	65%	NIL

34 How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:
GATE Examination

Academic Year	Number of students
2008-2009	5
2009-2010	NIL
2010-2011	NIL
2011-2012	1
2012-2013	NIL
2013-2014	1

NET, SET Examinations: NIL

35. Student progression :

Academic year 2009-2010

Student progression	Percentage against enrolled
UG to PG	**34%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**5%**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 12.3% 11%
Entrepreneurs	NIL

Academic year 2010-2011

Student progression	Percentage against enrolled
UG to PG	**32%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**8%**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 30.16% 16%
Entrepreneurs	NIL

Academic year 2011-2012

Student progression	Percentage against enrolled
UG to PG	**24%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**10%**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 73.42% 14%
Entrepreneurs	NIL

Academic year 2012-2013

Student progression	Percentage against enrolled
UG to PG	**30%**
PG to M.Phil.	**NIL**
PG to Ph.D.	
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 26% 11%
Entrepreneurs	NIL

Academic year 2013-2014

Student progression	Percentage against enrolled
UG to PG	**20%**
PG to M.Phil.	**NIL**
PG to Ph.D.	
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 46% 11%
Entrepreneurs	NIL

Academic year 2014-2015

Student progression	Percentage against enrolled
UG to PG	**20%**
PG to M.Phil.	**NIL**
PG to Ph.D.	-
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 25% 15%
Entrepreneurs	NIL

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	**NIL**
from other universities within the State	100%
from universities from other States	NIL
from universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 5

Sl.No	Name of Faculty	Discipline	Year
1	Dr. J. Amar Pratap Singh	Ph.D.(CSE)	2013
2	Dr. J. Dheeba	Ph.D.(CSE)	2013
3	Dr. K. S. Angel Viji	Ph.D.(CSE)	2015
4	Dr.R.Kalai Selvi	Ph.D.(CSE)	2015
5	Dr.J.E.Judith	Ph.D.(CSE)	2015

38. Present details of departmental infrastructural facilities with regard to :

a) Library

Room Number	Total Number of Books	Area
I105	298	120 sq.ft.

b) Internet facilities for staff and students :

Internet Facility	Access point	Speed	Number of systems
WiFi	5	1.0 Gbps	114
LAN		1.0 Gbps	30

c) Total number of class rooms : 6

Sl.No	Class	Department Classroom Number
1	II year B.E.CSE	I102
2	III year B.E.CSE	I104
3	IV year B.E.CSE	I303
4	I year M.E CSE	I301
5	II year M.E. CSE	I302
6	Smart class	I103

d) Class rooms with ICT facility: 1 (I103)

e) Students' laboratories: No: I201

LABS	Number of Systems	Internet Facility	Tools
LAB I	55	Wifi/LAN	C,C++,Java,VC++ Rational Rose,Oracle
LAB II	59	Wifi/LAN	C,C++,Java

f**) Research laboratories :**

LAB	No.of Systems	Tools	Server	Internet Facility
Computing Centre	5	C,C++,Java, MATLAB	LINUX server	Wifi/LAN 1.0 Gbps

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :

Sl.No.	Name of the doctoral students	Name of the university	Part Time/Full Time
July-2009			
1	Giri Das K.L	Noorul Islam University	Full Time
2	S.Albert Jerome	Noorul Islam University	Part Time
3	R.Manju	Noorul Islam University	Part Time
4	J.Arul Linsely	Noorul Islam University	Part Time
July-2010			
1	A.Anitha	Noorul Islam University	Part Time
2	R.Suji Pramila	Noorul Islam University	Part Time
3	C.P.Maheshwaran	Noorul Islam University	Part Time
4	S.Vinila Jinny	Noorul Islam University	Part Time
5	A.Ferdinand Christopher	Noorul Islam University	Part Time
6	J.E.Judith	Noorul Islam University	Part Time
7	S.Kanaka Sabhapathi	Noorul Islam University	Part Time
8	K.S.Angel Viji	Noorul Islam University	Part Time
9	F.R.Shiny Malar	Noorul Islam University	Full Time
July-2011			
1	Jebasonia J	Noorul Islam University	Full Time
2	Karthika Mohan N.S	Noorul Islam University	Full Time
3	Karthika R.A	Noorul Islam University	Full Time
4	Joan M.John	Noorul Islam University	Full Time
January-2011			
1	E.Sujai Sundar	Noorul Islam University	Part Time
2	G.Venifa Mini	Noorul Islam University	Part Time
3	P.Venkadesh	Noorul Islam University	Part Time
July-2012			
1	Sindia T.V	Noorul Islam University	Part Time
2	Brindha T	Noorul Islam University	Part Time
3	Divya S.V	Noorul Islam University	Part Time
4	Kumaran U	Noorul Islam University	Part Time
5	Deepa Priya B.S	Noorul Islam University	Part Time
6	Anusha Bamini A.M	Noorul Islam University	Part Time
July- 2014			
1	Jayalekshmi M B	Noorul Islam University	Part Time
2	Jeyasheela Y	Noorul Islam University	Part Time

b) From other institutions/universities

Sl.No	Name of the doctoral students	Part Time/Full Time
July-2009		
1	A.Mala	Part Time
2	J.Suresh Kumar	Part Time
July-2010		
1	G.R.Rajesh	Part Time
July-2011		
1	Bejoy Abraham	Part Time
2	Maya John	Part Time
3	Praveen K.Wilson	Part Time
4	Sheeja Agustin A	Part Time
January-2011		
1.	Beshiba Wilson	Part Time
2.	Ravindra V.Joshi	Part Time
3.	Mohamed Shameem P	Part Time
4.	Manjith B.C	Part Time
5.	Sreekumar Pulakkazhy	Part Time
6.	Jothikumar R	Part Time
7.	Lashma K	Part Time
8.	Anju J. Prakash	Part Time
9.	Sruthy S	Part Time
July-2012		
1	Paul P.Mathai	Part Time
2	Jyothish K.John	Part Time
July 2013		
1	Alycia Sebastian B.S	Part Time
2	Gouri. M.S	Part Time
3	Veenus. P.K	Part Time
4	Soumiya. C.S	Part Time
5	Vadivu Vijayaraghavan	Part Time
6	Reni Cherian. K	Part Time
7	Devi Devapal	Part Time
8	Reji P.I	Part Time
9	Venish. A	Part Time
10	Saleena. Y	Part Time
11	Dileep. V.K	Part Time
12	Nisha O.S	Part Time
13	Sheeja Rani. S	Part Time
14	Aswathy. S.U	Part Time
15	Resmi Sekhar	Part Time
16	Sudhan. M.B	Part Time
July 2014		
17	Anjali C	Part Time

18	Ansar H	Part Time
19	Divya Das B M	Part Time
20	Krishna Priya C B	Part Time
21	Leda Kamal	Part Time
22	Leenasilvoster M	Part Time
23	Mancy L	Part Time
24	Praveen K Wilson	Part Time
25	Priscilla Joy R	Part Time
26	Saira Varghese	Part Time
27	Shimja M	Part Time
28	Shyni Shajahan	Part Time
29	Sibi P S	Part Time
30	Sree Lekshmi P G	Part Time
31	Srinivasan	Part Time
July 2015		
32	Anugraha.M	Full Time
33	Joshua Thomas	Part Time
34	Surya Kala A.V	Full Time
35	Anoop S.	Part Time

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

Feedback and suggestions from students and other departments is helpful in modifying the course content.

42. Does the department obtain feedback ?

Yes the College has a formal mechanism of obtaining feedback from the students involving specific questionnaire. The feedback obtained are analysed and suggestions incorporated in the form of change in syllabi, teaching methods and administrative measures after approval by the academic council

- Feedback from students about the curricular structure is obtained formally via the teaching faculty. Student feedback and rating of the faculty is carried out at the end of even semesters.
- Feedback from the alumni is gathered in the alumni meet sometimes.
- Every time the curriculum is prepared, feedback is obtained from employers.
- Feedback is obtained from Academic peers in Board of Studies meetings.
- Feedback from the faculty about the students in the form of theory and practical, class tests and assignments is obtained.

- Feedback is obtained from the coordinators of various centers across the country where the interns from the undergraduate programme of speech and hearing are placed.
- The non institutional members in the BOS who are academic peers provide inputs and suggestions to modify the curriculum as per the needs across the country and with the perspective of multidisciplinary approach.

43. **List the distinguished alumni of the department :**

Serial No	Name	Passed Out Batch	Designation	Organisation
1.	Vijyetha Vijayan	2011-2015	Assistant System Engineer Trainee	TCS
2.	Nihala Bai	2011-2015	Assistant System Engineer Trainee	TCS
3.	P.V.Shamjas	2010-2014	Assistant System Engineer	TCS
4.	C.L Lipin Dhas	2010-2014	Project Engineer	TCS
5.	Ajith Kumar	2011-2013(ME)	Project lead	IBM
6.	Ayyappan T	2008-2012	Assistant System Engineer	TCS
7.	Harihara Sundaram	2008-2012	Software Engineer	WIPRO
8.	J.Maria Divya	2008-2012	Assistant System Engineer	TCS
9.	Kannan .J	2009-2011	Associate Software Engineer	Birlasoft
10.	S. Bagavathi Kumar	2009-2011	Assistant System Engineer Trainee	TCS
11.	Mageswaran	2009-2011	Assistant Engineer	WIPRO
12.	M.Padmashini	2006-2010	Probationary Officer	SBI
13.	K J Kausalya	2005-2009	System engineer	WIPRO
14.	Deepa K.V	2004-2008	System	TCS

			Engineer	
15.	Sabeena	2004-2008	System Engineer	TCS

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Program		Name of the Student	External Expert	Date
Workshop	Open Source in LINUX	P.Rexlin Suji, V.Pradeeba, A.Saranya	SCAD college of Eng and Tech	24th Nov 2011
	Android	S.K.Sumaina, P.A.Seethal, S.Sona	Faculty of Akash Antroid	2nd & 3rd March 2013
Training	1	Final Year Students	TCS	22nd & 26th October 2012
	2	Final Year Students	Shivas Foundation	8th & 9th January 2013
	3	Final Year Students	American mega trends	28th Feb, 1st & 2nd March 2013
	4	Final Year Students	Animation and Graphics Designing	7th October 2013
	5	Final Year Students	Project Guidance	15 October 2014
	6	Final Year Students	HR Skills Development	12 February 2015
	7	Third Year Students	Ethical Hacking	27 & 28 August 2015

Guest Lectures, Personality Development programme, Carrier guidance, Soft skills and Communication skills, Presentation skills, Spoken and Functional English, Workshop on Competitive exams like, ICET, NET, SET, Job interviews, Quiz, Cross word puzzle, visiting book exhibition, Education Trips and Inter-collegiate festivals, Certificate Courses, Computer aided practice, Debates and discussions, Supervision of study projects.

45. List the teaching methods adopted by the faculty for different programmes:

a. Lecture cum Discussion Method
b. Group Discussion and Pair Work in the class room
c. Using Teaching Tools like OHP, LCD Projector, Video Clippings,

stories, live speeches of famous English Writers**,** CD player, Internet, Power Point Presentation.

d. Guiding students to do Projects.
e. Role Play.
f. Paper Presentations and Seminars
g. Group assignment
h. Guiding the students to use Internet resources**.**
i. Facilitation method especially for Language Lab classes.
j. Celebration of Important Days

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Programme objectives are constantly met through constructive feedback from students on teaching-learning process and student development programmes. After the assessment, quality measures are taken by conducting special oral and return communication skills class, soft skills class, guest lectures on strengthening teaching-learning process, student study projects, participating and presenting papers in seminars along with curriculum, enhancing student's vocabulary and pronunciations to development learners' language competence.
The Department constantly caters to the diverse linguistic aptitudes of the student community in a dynamic and student- centered manner.

47. Highlight the participation of students and faculty in extension activities.

- Tree plantation awareness is done by students through NCC.
- Blood donation activities are done by students through NSS.
- Department have conducted placement awareness programme through ACSE.
- Personality Development talks are arranged for U.G students.
- Staffs have acted as chief invigilator & invigilators in TNPSC government exams.
- Prof. E. Arun and Ms. K.S. Angel Viji acted as chief invigilators for TNPSC government exams.
- Staff acted as trainee for young scientists "YSAP" during Summer vacation.
- RRB online exam was conducted in our department.
- Ms. P. O. Sinciya and Mr. P. Venkadesh acted as placement trainee and motivated students for placement.
- Two of our Staff Member Dr.J.Amar Pratap Singh and Dr.J.Dheeba has received Doctrate from the Anna University on 3rd December 2013.
- 'NICHWA' ,humanity club was started by CSE Department.
- C.L.Lipin Dhas and P.V.Shamjas of Final year Students got placed in TCS.

- Jaya Nand thilak of second year CSE was awarded with a cash prize of 15,000 for his outstanding dance performance in National level Cultural fest.

48. **Give details of "beyond syllabus scholarly activities" of the department:**

- Dr. A. Shajin Nargunam guides 8 Ph.D. scholars.
- Dr. Julia Punitha Malar Dhas guides 8 Ph. D. Scholars.
- Dr. J. Amar Pratap Singh guides 4 Ph.D. scholars.
- Dr.J. Dheeba guides 3 Ph. D. Scholars
- Mr. C. P. Maheswaran has completed a software project for university administration and currently involves in satellite project of NIU.
- Prof. E. Arun has completed a AICTE funded project "Construction of a Novel Assembler for Reduction of Handoff Delays in WLAN".
- Dr. A. Shajin Nargunam is working team member of **AVID – PATENT.**
- Dr. J. Amar Pratap Singh is one of the co-ordinator of Satellite project of NIU.
- Faculties Ms. R. Chitra and Dr.J. Dheeba cleared DB2 exams of IBM.
- Ms. G. Venifa Mini cleared RAD exam of IBM.
- Faculties Ms. R. Suji Pramila, Ms. I. Berin Jeba Jingle, G. Venifa Mini & Mr. P. Venkadesh are acting as NIU-news letter co-ordinators of our department.
- Mrs. R. Chitra is an ISO internal auditor of NIU.
- Dr. Julia Punitha Malar Dhas organized one day workshop on 'BIGDATA'.
- Ms. G.Venifa Mini and Ms. A.M.Anusha Bamini are the certified members of ICTACT cloud platform.
- Ms. A.Anitha attended the campus connect program conducted by INFOSYS.
- IET student chapter was inaugurated.
- Dr. Julia Punitha Malar Dhas organized two days workshop on Image Processsing and Practical Applications using MATLAB.
- Dr. Julia Punitha Malar Dhas organized one day workshop on 'Knowledge Discovery using Datamining'
- Dr. Julia Punitha Malar Dhas organized one day seminar on Ethical Hacking.
- Dr. Julia Punitha Malar Dhas organized one day National Conference on Emerging Trends in Applied Science and Technology.

49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. :**

Accredited by International Accreditation Organization,

ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

1. Provides a Research Colloquium forum for sharing research experience among faculty members.
2. Providing importance to research and making it available to all.
3. Innovations in Teaching-Learning methods through Smart Class, PowerPoint presentations, Seminars, Webinars and Workshops.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strength

1. Research in Thrust areas.
2. Well qualified and dedicated staffs with proficient knowledge.
3. Work Quality and teamwork among faculty.
4. Interface and collaboration with industries like IBM, Infosys, ICTACT etc.
5. Department Alumni constantly contribute in organizing seminar and providing placement guidance.

Weakness

1. Lack of Patents.
2. Research Collaboration with industries has to be improved.

Opportunities

1. Providing Certification courses for students from IBM.
2. Developing social welfare projects funded by agencies like AICTE, ICTACT
3. New methods in teaching learning process

Challenges

1. Adaptability to state of art technologies
2. To meet international level standards in academics.
3. Improve quality of research with recent technologies.
4. To meet corporate needs.

52. Future plans of the department :

1. Interdisciplinary courses.
2. Research Laboratories.
3. International Conference
4. Research Journal in Computing and Communication.

Department Evaluative Report

Department of Civil Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Civil Engineering
Evaluative Report

1. **Name of the Department** **:** Civil Engineering

2. **Year of establishment** **:** 2006

3. **Is the Department part of a School/Faculty of the university :**
Yes - Faculty of Civil Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

Sl. No.	Name of the Programme offered
1	B.E. Civil Engineering
2	M.E. Structural Engineering
3	Ph.D. Civil Engineering

5. **Interdisciplinary programmes and departments involved**:

Sl. No.	Interdisciplinary courses offered	Names of the Departments involved
1	Engineering Mathematics and Applied Mathematics (UG & PG) Aptitude skills (UG)	Department of Mathematics
2	Communication skills & presentation skills(UG)	Department of English
3	Principles of Management (UG)	Department of Management Studies
4	Other languages German, Japanese, French (UG & PG)	Department of foreign languages
5	Software skills (UG)	Department of Computer Science Engineering

6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**

Sl. No.	Details of other universities, industries, foreign institutions
1	GD Constructions (Engineers & Contractors)
2	Lines & Circles , Educational Institutions (P) Ltd
3	SJ Builders Projects & Consultants

7. **Details of programmes discontinued, if any, with reasons**:
Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**:
Semester/Choice Based Credit System for all UG and PG Programmes.

9. **Participation of the department in the courses offered by other departments :**

Sl. No.	Name of the courses handled for other departments	Name of the other departments
1	Engineering Graphics	First year (Common to all branches)
2	Engineering Mechanics	First year (Common to all branches)
3	Fluid Mechanics	Department of Mechanical Engineering
4	Strength of Materials	Department of Mechanical Engineering
5	Basic Civil Engineering	First year (Common to all branches)

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Position	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	2	1	-
Associate professor	2	2	-
Assistant Professor	12	10	-
Others (Technical Assistants)	2	2	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

Name	Qualification	Designation	Specialisation	No. of. years of experience	No. of. Ph.D. / M. Phill. students guided for the last 4 years
Dr.Narayanan Nair	M.Sc(Geology),Ph. D	Professor	Geology	45years	Nil
Mr.N.Nalanth	M.E., MBA (Ph.D.)	Associate Professor	Structural Engineering	11years	Nil

Mr. Y. Stalin Jose	M.E.(Ph. D.)	Associate Professor	Structural Engineering	9years	Nil
Mr.D.Allwin	M.E.	Assistant Professor	HWRE	6years 2months	Nil
Ms.N.Alex Dorwina	M.E.	Assistant Professor	HWRE	5years 8months	Nil
Mr.R.Muthu Uthayan	M.E.	Assistant Professor	Construction Engineering & Management	4years 3months	Nil
Ms.B.Soniya	M.E.	Assistant Professor	Soil Mechanics	3years 1month	Nil
Mr.S.Mathan Kumar	M.E.	Assistant Professor	Environmental Engineering	2years 9months	Nil
Ms.J.Shalini	M.E.	Assistant Professor	Structural Engineering	2years 4months	Nil
Ms.R.Roselin	M.Tech.	Assistant Professor	Structural Engineering	3years 2months	Nil
Ms. R. Siva Prabha	M.E.	Assistant Professor	Structural Engineering	2years 2months	Nil
Mr.S.Sunil Kumar	M.E.	Assistant Professor	Structural Engineering	2years 3months	Nil
Ms.Abisha Justus	M.Tech.	Assistant Professor	Coastal Management	2years 10months	Nil

List of faculty associated with Civil Department from other Departments

Name	**Qualification**	**Designation**	**Specialisation**	**No. of. years of experience**	**No. of. Ph.D. / M. Phill. students guided for the last 4 years**
Dr.N.Sugitha	Ph.D	Associate Professor	IT	14.9	-
Mrs.D.Sheeba Singh	M.Sc., M.Phil, Ph.D	Assistant Professor	Graph Theory	6y 5m	01
Dr.K.M.Arun	M.A., M.Phil., Ph.D.	Assistant Professor	Indian Writing in English	04	03

Mr. V.G. Ranjith	M. Sc(CS)., M.Tech.	Assistant Professor	Information Technology	13 yrs	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty programme-wise information:

Nil

14. Programme-wise Student Teacher Ratio

- UG - B.E. Civil Engineering : 12:1
- PG - M.E. Structural Engineering : 12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Sl. No.	Staff Category	Sanctioned	Filled
1	Technical assistant	2	2
2	Stores and Purchase assistant	-	-
3	Lab Attendant	2	-
4	Administrative staff	2	1

16. Research thrust areas as recognized by major funding agencies :

Research thrust areas	Laboratories
1. Static and dynamic testing of RCC elements 2. Post peak response of P.C., R.C. and masonry structures 3. Behaviour of fiber reinforced concrete 4. Non flexural behavior of structural concrete 5. Analysis and optimum design of laminated composite 6. Thermal and durability studies on concrete 7. Load deformation behavior of confined concrete 8. Health monitoring, residual life assessment and retrofitting of structures 9. Application of soft computing techniques in structural engineering	Structural Engineering Laboratory
1. Pavement materials Characterisation 2. Pavement design, analysis,	Transportation Engineering

evaluation and management 3. Traffic Flow analysis and Highway Capacity 4. Economic analysis of Transportation projects 5. Safety, Accident analysis 6. Transport and traffic modelling 7. Intelligent Transport systems 8. Pedestrian flow modeling 9. Rural road network planning and design 10. Urban transportation planning	

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration - Nil
b) International collaboration - Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Title of the project	Funding agency	Principal Investigator	Status
Eco friendly concrete	DST	N.Nalanth Associate Professor & Head, Department of Civil Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, TN, INDIA-629180.	Proposal under preparation.
Nano composites in high performance concrete	DRDO	Abisha Justus Asst. Professor, Department of Civil Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, TN, INDIA-629180.	Proposal under preparation.

20. Research facility / centre with

- **state recognition** - Nil
- **national recognition**
- **international recognition** - Nil

Sl. No.	Name of the Laboratory/Centre	Type of Recognition
1	Structural Engineering Lab	National
2	Concrete Technology lab	National
3	Environmental Lab	National

21. Special research laboratories sponsored by / created by industry or corporate bodies - NIL

22. Publications:

Number of papers published in peer reviewed journals (national/ international): 08

Sl. No.	Author, Title of the Paper	Vol No., Page No., Year	Name of the Journal	ISSN No.	Impact factor/ SNIP/SJR
1	N.Nalanth, "Study of the structural behaviour joints by partial replacement of course aggregate with waste recycled aggregates and by addition of hybrid steel fibers".	Vol 7(5), 997-1001, 2014	International Journal of Earth Sciences and Engineering	0974-5904	Impact Factor: 0.042 H Index-2 SJR-0.15
2	N.Nalanth,"Behaviour of recycled aggregate in exterior beam column joints".	Vol 7(5), 1002-1005, 2014	International Journal of Earth Sciences and Engineering	0974-5904	Impact Factor: 0.042 H Index-2 SJR-0.15
3	N.Nalanth, "Application of recycled aggregates and steel fibers in exterior beam column joints".	Vol 7(5), 993-996, 2014	International Journal of Earth Sciences and Engineering	0974-5904	Impact Factor: 0.042 H Index-2 SJR-0.15
4	N.Nalanth, "Evaluation of the Fresh and Hardened Properties of Steel Fibre Reinforced Self-Compacting Concrete Using Recycled	Vol2014, Article ID 671547, 6 pages, 2014	International Journal of Advances in Civil Engineering	1687-8086	Citation Index - 2

	Aggregates as a Replacement Material"				
5	N.Nalanth, "Study of the behavior of recycled aggregates in SCC"	Vol 4, 41-48, Special Issue 2, 2013	National Journal of Emerging Technology in Mechanical Science and Engineering	-	-
6	N.Nalanth, "Evaluation of the performance of SCC using construction and demolition wastes with hybrid steel fibres"	Vol 4, 34 -40 Special Issue 2, 2013	National Journal of Emerging Technology in Mechanical Science and Engineering	-	-
7	Dr.M.S.Ravikumar, "Evaluation of the Fresh and Hardened Properties of Steel Fibre Reinforced Self-Compacting Concrete Using Recycled Aggregates as a Replacement Material"	Vol2014, Article ID 671547, 6 pages, 2014	International Journal of Advances in Civil Engineering	1687-8086	Citation Index - 2
8	Y. Stalin Jose, " Retrofitting of reinforced concret beams by using CFRP laminates".	Vol 7(5), 910-914, 2014	International Journal of Earth Sciences and Engineering	0974-5904	Impact Factor: 0.042 H Index-2 SJR-0.15

∗Monographs : Nil
∗Chapters in Books : Nil
∗Edited Books : 1

Sl. No.	Name of the faculty	Books Edited	Publication	ISBN Number
1	Mr. N. Nalanth	A Text Book of Basic Civil Engineering	IT Publications	13-978-81-907917-24

∗ Books with ISBN with details of publishers : Nil
∗ Number listed in International Database (For *e.g.* Web of Science,

Scopus,
Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.), Citation Index – range / average, SNIP , SJR, Impact Factor –average, H-index.

Sl. No.	Name of the faculty	Number listed in International Database	Citation Index	H-Index
1	Mr. N. Nalanth	08	34	04

23. Details of patents and income generated

Nil

24. Areas of consultancy and income generated

Details of Consultancies Done:

Year	Name of the faculty	Company Name	Test Conducted	Amount (Rs)
2008-2009	Ms.K.J.Jegitha Mr.D.K.Jayaram	1.Ponkumari wind farm 2. Pioneer Asia wind turbines	Steel test Concrete cube test	1,25,450
2009-2010	Mr.D.K.Jayaram Mrs.C.Sivamalar	1.Suzlon infrastructure service Ltd. 2.Sri Ganesh wind power Pvt Ltd	Concrete cube test Soil test	1,56,920
2010-2011	Mrs.Rema Mrs.Shyja Rani	1.Ponkumarai wind farm 2.Suzlon infrastructure service Ltd.	Concrete cube test Soil test Water test	1,26,075
2011-2012	Prof. Y. Stalin Jose Mr. R. Donald Tony	1.AVM bricks 2.Earthwork manpower	Concrete cube test Soil test Water test	81,700
2012-2013	Mr.D.K.Jayaram Mrs.Shyja Rani	1. Golden India Infrastructure 2. TRI-STAR construction 3. Kadayal town Panchayat	Brick test Cement test Concrete cube test Soil test Water test	13,150
2013-2014	Mr. R. Donald Tony	1. The imperial trading company 2. Abinaya constructions 3. Kuzhithurai municipality	Pipe test Concrete cube test	5100

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Nil

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Faculty	National committee/ International committee/ Editorial Board
Dr.M.S.RaviKumar	Member, Award selection committee 2014, ISTE,NewDelhi
	Journal Editor, International Journal of Earth Sciences And Engineering ISSN 0974-5904
Mr. N. Nalanth	Chief Editors, International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767
Mr. D. Allwin	Co - Editors, International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767
Ms.Abisha Justus	Co - Editors, International Journal of Ingenious Technologies and Sustainable Developments in Civil Engineering ISSN 2394 – 9767

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs	Conducted by (our organization / other organization name)	Period and Date of conduct	Name of the staff attended	Role of the staff (participant/resource person)
Faculty Refresher Course	Noorul Islam University	20^{th} -22^{nd} June 2013	Mr.S.Mathan Kumar	Participant
Faculty Refresher Course			Mr.I.Kannan	Participant
Faculty Refresher Course			Ms.R.Roselin	Participant

Workshop on "Advancement in Geotechnical Engineering"	MepcoSchlenk College of Engineering	Dec 2013	Mr. S. Sunil Kumar	Participant

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects :**

Year	Percentage
2011-2012	100
2012-2013	100
2013-2014	100
2014-2015	100

- **percentage of students doing projects in collaboration with other universities /industry / institute :** Nil

29. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post doctoral fellows : Nil
- Students : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Name of the Programme	Title of the Conference	Organized by	Venue &Date	Source of funds
Workshop	Advancement in Civil Engineering	Department of Civil Engineering	Noorul Islam University 20thAgust 2015	Nil
International Conference	Ingenious Technologies and challenges In Civil Engineering	Department of Civil Engineering	Noorul Islam University 8th October 2014	Nil
Training Programme	Self Realization & Transformation	Department of Civil Engineering	Noorul Islam University 3rd February2014	Nil
National Conference	Innovative Technologies an challenges In Civil Engineering	Department of Civil Engineering	Noorul Islam University 1st October 2013	Indian Society for Technical Education

International Conference	Global Challenges, Strategies and Solutions in Engineering, Business and Disaster Management	Department of Civil Mechanical, Civil Engineering & Management Studies	Noorul Islam University 8th&9th March 2013	Nil
Training Programme	Soft Skill Training	Department of Civil Engineering	Noorul Islam University 27th February 2013	Nil
Surveying Workshop	Five day Advanced Surveying Programme	Department of Civil Engineering	Noorul Islam University 18th to 23rd February 2013	Nil
International Conference	Comprehensive Disaster Management	Department of Civil Engineering	Noorul Islam University 27th& 28th January 2012	Nil

31. Code of ethics for research followed by the departments :

The following matters of ethical concern is followed in the research program offered by the department of Civil Engineering,

1. Plagiarism
2. Misuse of Privileged Information
3. Data
   a.Integrity of Data
   b.Use and Misuse of Data
   c.Ownership of and Access to Data
   d.Storage and Retention of Data

4. Authorship and Other Publication Issues
   a.Criteria for Authorship
   b.Order of Authors
   c.Self-citations
   d.Duplicate Publication

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	**Applications received**	**Selected**		**Pass percentage**	
		Male	**Female**	**Male**	**Female**
B.E (Civil Engineeing) 2009-2012	120	60	-	90	-
B.E (Civil Engineeing) 2009-2013	145	57	8	87.71	100
B.E (Civil Engineeing) 2010-2014	141	64	5	90.62	100
B.E (Civil Engineeing) 2011-2015	175	72	10	90	100
B.E (Civil Engineeing) 2012-2016	152	75	14	-	-
B.E (Civil Engineeing) 2013-2017	205	77	18	-	-
B.E (Civil Engineeing) 2014-2018	160	62	12	-	-
B.E (Civil Engineeing) 2015-2019	105	45	8	-	-
M.E (Structural Engineeing) 2011-2013	20	5	4	100	100
M.E (Structural Engineeing) 2012-2014	25	11	2	90.90	100
M.E (Structural Engineeing) 2013-2015	15	3	3	66.66	100
M.E (Structural Engineeing) 2014-2016	18	3	6	-	-
M.E (Structural Engineeing) 2015-2017	07	2	-	-	-

33. Diversity of students :

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
B.E.Civil Engineering	99%	1%	Nil	Nil
M.E. Structural Engineering	100%	Nil	Nil	Nil
Ph.D– Civil Engineering	100%	Nil	Nil	Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : 04

Sl.No.	**Name of the student**	**Year**	**Category**
1.	A.N.Asha	2006-2010	Combined Engineering Services
2.	AbisaLydia Michael	2006-2010	Combined Engineering Services
3.	A.Ananthi	2007-2010	TWAD board
4.	A. U. Nathan	2006-2010	Combined Engineering Services

35. Student progression :

Student progression	**Percentage against enrolled**
UG to PG	27%
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 15% 45%
Entrepreneurs	7%

36. Diversity of staff :

Percentage of faculty who are graduates of	
The same university	-
From other universities within the state	95%
From universities of other state	8%
From universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Nil

38. Present details of departmental infrastructural facilities with regard to :

a) Library - 1

Total area of the department library is 40 sq. Mts.
Total seating capacity is 10.

b) **Internet facilities for staff and students**: Wi-Fi connection tostudents and staff

c) **Total number of class rooms** : 8

d) **Class rooms with ICT facility** : 01

e) **Students' laboratories** **:** 10

f) **Research laboratories** **:** 01

39. List of doctoral, post-doctoral students and Research Associates :

a) from the host institution/university : 04

b) from other institutions/universities : 06

Sl. No	**Name of the Faculty**	**University**	**Programme**
1	Mr. N. Nalanth	Anna University	Ph. D.
2	Mr. Y. Stalin Jose	Noorul Islam University	Ph. D.
3	Ms. J. Shalini	Noorul Islam University	Ph. D.
4	Ms. R. Roselin	Noorul Islam University	Ph. D.
5	Ms. B. Siva Bala	Noorul Islam University	Ph. D.
6	Mr. G. Vaishak	Noorul Islam University	Ph. D.
7	Mr.Subash	Noorul Islam University	Ph. D.
8	Ms.Suseela	Noorul Islam University	Ph. D.
9	Mr. Gopala Krishnan	Noorul Islam University	Ph. D.
10	Ms.Salsala	Noorul Islam University	Ph. D.

40. Number of post graduate students getting financial assistance from the university

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Yes. Structural engineering, a part of civil engineering, has emerged as a critical part of the construction process. With advancement of technology and introduction of CAD for design and finite analysis, structural engineering has become a part and parcel of construction process for both building and non–building structures. Also job opportunities are wide open for Structural Engineers. Hence it was decided to start a PG course in Structural Engineering.

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The department utilizes the feedback from faculty on curriculum as well as teaching-learning evaluation during the formulation of new regulations, syllabus and programmes.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The feedback from students on staff, curriculum and teaching-learning-evaluation is obtained on regular basis at the end of each semester. The reportaids in accessing the efficiency, knowledge and regularity of the faculty.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The feedback from the alumni and employers is helpful in reducing the wide gap between educational institution and the industry. The students are informed about the industrialrequirements and areas of promising future growth so that they can equip themselves before entering the industrial atmosphere.

43. List the distinguished alumni of the department (maximum 10) :

Sl.No	Name	Working Industry	Position
1	Karthick Ganesh	Ramco Cements Ltd., Chennai Circle	Deputy Manager
2	Jobish Raj	HDFC, Marthandam	Assistant Manager
3	S. Paramashivan	ShapoorjiPallonji Engineering and Construction, Chennai	Project Engineer

4	S. Kanagavel	Mero Asia Pacific Pte Ltd. Singapore	Structural Engineer
5	Imran Khan	Akzonobel	Project Engineer
6	P. P. Pradeep Kumar	Fortress (Marine Lines, India)	Project Engineer
7	Mahesh Kumar. S	Dream Readymix W. L. L, Bahrain	Quantity Control Engineer
8	Sree Rag. R	GCC Contracting, GINCO, LLC, Trivandrum	Quantity Surveyor
9	R. Siva Prabha	Noorul Islam University	Assistant Professor
10	Abisha Justus	Noorul Islam University	Assistant Professor

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Sl. No.	Topic of seminar/Workshop	Visiting Faculty	Organization	Date
1	Oppurtunities in Civil Engineering	Dr. S. U. Kannan	SCAD College of Engineering & technology	07.09.2014
2	Software Packages (Interior Design)	Mr.Boobalan	Dream Zone Pvt. Ltd.	07.10.2014
3	Motivational Lecture	Mr. Henry	Author - Vetripaathai	12.02.2015

45. List the teaching methods adopted by the faculty for different programmes :

- Power point presentation
- Industrial visit
- Visual aids
- NPTEL materials
- Guest lectures
- Tutorials
- Seminars

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :

The department ensure the programme outcomes and are constantly monitored by continuous evaluation in the form of series test and end semester examinations.

47. Highlight the participation of students and faculty in extension activities:

- Participation of faculty

Name	Role
Dr. M. S. Ravikumar	**Executive member,** Academic Council, N.I University.
	Chairman, Board of Studies, Civil Engineering, N.I University.
	High Power Committee Member, Anti Ragging& Surveillance Cell, NIU
	Chief Examiner, Central Valuation, Civil Engineering, N.I University.
	Question Paper Setter, ➢ Annamalai University, Chidambaram ➢ N.I University, Kumaracoil ➢ K. S. R College of Technology , Tiruchengode ➢ Sethu Institute of Technology, Virudhunagar
	Chairman, Interview Panel, Doctoral Programme, Civil Engineering , NIU
	Member, Grievance and Disciplinary Committee ,N.I University
	External Examiner, Annamalai University, Ph.DProgrammes , Civil Engineering
	Member, Hostel Monitoring Committee, N.I University
	Journal Reviewer, Structural Engineering and Mechanics, An International Journal
	Journal Editor, International Journal of Earth Sciences And Engineering ISSN 0974-5904
	Member, Award selection committee 2014, ISTE,NewDelhi
	Convener, National Level Workshop on Innovative Technologies And Challenges In Civil Engineering on 1st, Oct, 2013
	Organizing Secretary, International Conference on Ingenious Technologies and Sustainable Developments In Civil Engineering on 8th, Oct, 2014
	Life Member in Indian Society for Technical Education, New Delhi
	Member in Association of Institution of Engineers
	Member in Indian concrete Institute
Mr.N.Nalanth	**Deputy director**, Entrance Examination , NIU
	Chairman Board of Studies, NIU (2008-2013)
	Member, Board of Studies NIU (2013-till date)
	Program officer, Fine Arts Club, NIU

	Program officer, Eco club, NIU
	Additional Co-ordinator, Young Student Scientist Adoption Program (YSSAP)
	Chief Examiner, U.G& P.G degree valuation (2008-2013)
	Member, Staff selection committee, CivilEngineering, Arunachala College of Engineering, Vellichanthai.
	Member, University Examination squad
	Chief Editor, International journal of Ingenious technologies and Sustainable developments
Mrs.Roselin	**Member**, ISTE, New Delhi
Mr.D.Allwin	**Member Board of Studies**,NIU (20013-till now)
	Co-Editor, International journal of Ingenious technologies and Sustainable developments
	Member, Association of Hydrologist of India
Ms.Abisha Justus	**Co-Editor,** International journal of Ingenious technologies and Sustainable developments

- Participation of students
- Workshop / Conference / Symposium / Exhibition

Sl. No	**Name**	**Event**	**Workshop / Conference / Symposium / Exhibition**	**Institution**
1	Abisha Justus	Poster Presentation	BUILD TECH'08	St. Xaviers Catholic College of Engineering
2	A. N. Asha			
3	K. Shiny			
4	R. Siva Prabha			
5	Abisha Justus	Technical Exhibition	BUILD TECH'08	St. Xaviers Catholic College of Engineering
6	A. N. Asha			
7	K. Shiny			
8	R. Siva Prabha			
9	S. JohajarnAshlin	LIVE WIRE	TECUTHSAV '11	Thiagarajar College of Engineering, Madurai
10	JishnuNamboothiri. V	BUILD O' QUEST	ANOKHA 2011	Amrita School of Engineering
11	Vineesh. V. Kumar			
12	TanzeelHabeebulla	4D CAD	ANOKHA 2011	Amrita School of Engineering

13	K. Thangapandi	Paper Presentation	Role of Software in Civil Engineering	Velammal Engineering College, Chennai
14	H. Thirunavukkarasu			
15	JinishGovindankutty	Short Term Training Programme	Advances in Structural Steel Design as per IS:800-2007	Government Engineering College, Trichur
16	Asif Ansari	National Level workshop	Technological Advances in Civil Engineering	Noorul Islam University
17	Savin. M			
18	Ramesh. R			
19	Imajan. S. M			
20	AkashTomy			
21	AkashTomy	Modelling Competition	Technical Advances in Civil Engineering	Noorul Islam University
22	JinishGovindankutty	Paper Presentaion	Green & Intelligent Building	Noorul Islam University
23	JinishGovindankutty	International Workshop	Recent Advances in Civil Engineering	Noorul Islam University
24	Asif Ansari			
25	Savin. M			
26	Ramesh. R			
27	Imajan. S. M			
28	AkashTomy			
29	Nabeel Ali. S	Paper Presentation	-	ICT Academy of Tamil Nadu
30	M. Deva Ananth	Workshop	BHUVAN	Institute of Remote Sensing, Chennai
31	B. Suresh Babu			
32	VinothBala. R			
33	Mohamed Subair. A			
34	Unni Krishnan. P. G			
35	Salai Mahesh Kumar. S			
36	Fazil. M			
37	Naveen. B. G			
38	MydeenPillai. T. S. S			
39	Ashwanth Raja. T. S			
40	Naveen. B. G	Workshop	OSGeo – Map Guide	Institute of Remote Sensing, Chennai
41	MydeenPillai. T.			

	S. S			
42	Ashwanth Raja. T. S			
43	B. Suresh Babu	National level technical Symposium	GEOHORIZON'14	Institute of Remote Sensing, Chennai
44	VinothBala. R			
45	Mohamed Subair. A			
46	Unni Krishnan. P. G			
47	L. M. Deva Ananth			
48	MydeenPillai. T. S. S			
49	Ashwanth Raja. T. S			
50	Salai Mahesh Kumar. S			
51	Fazil. M			
52	Naveen. B. G			
53	MydeenPillai. T. S. S	Manageria	GEOHORIZON'14	Institute of Remote Sensing, Chennai
54	Navven. B. G			
55	Ashwanth Raja. T. S			
56	AkhilMurali (2nd place)	National level InterCollegiate Fest YAGNA DHRUVA '14	National level InterCollegiate Fest YAGNA DHRUVA '14	LBS Institute of Technology for Women
56	Abhijith (2nd place)	Mime	National level InterCollegiate Fest YAGNA DHRUVA '14	LBS Institute of Technology for Women
58	Fadil Mohammed (2nd place)			
59	AslamLuqman (2nd place)			
60	Jayesh (2nd place)			
61	Naseehul Islam (2nd place)			
62	Ajas Mohammed. M. F			
63	Asif Mohammed Shan			
64	Ajash. R. Nair			

65	Thanseer. B			
66	Jiji Ashok	Paper Presentation	CIVIXTORM' 14	MACET, Kuttakuzhi
67	JithishaAshokan			
68	Bosco Raj	Model Making	CIVIXTORM' 14	MACET, Kuttakuzhi
69	Berlin Raj. A			
70	NithinBharath. R. S			
71	SmilesonPrabhuDhas. T			
72	Jafwin. S. Stephen			
73	Mohaideen Abdul Kadhar. P			
74	Lakshmanaperumal. S			
75	Sunil Singh. B			
76	Danish. R			
77	Eabin. N	Display of Models	CIVIXTORM' 14	MACET, Kuttakuzhi
78	John. M			
79	Suresh. L			
80	Sunil Singh. B	Paper Presentation	CIVIXTORM' 14	MACET, Kuttakuzhi
81	T. S. Ashwanth Raja	National Level Seminar	Emerging Trends in Civil Engineering Software & Prospective Career Opportunities	Sethu Institute of Technology
82	T. S. S. MydeenPillai			
83	S. Salai Mahesh kumar			
84	M. Fazil			
85	L. M. Deva Ananth	National Level Seminar	Recent Trends in Concrete Composites	Kalasalingam University, Krishnankoil
86	R. VinothBala			
87	B. Suresh Babu			
88	P. G. Unni Krishnan			
89	P. Madasamy	Workshop	Introduction to STAAD. Pro V8i	NIT Trichy
90	N. SaravanaPerumal			
91	J. Mohamed Irfan			
92	SreekumaraGanapathy			
93	N. Syed Ali Badhusha			
94	AkhilMurali (2^{nd} place)	Variety	Inter College Cultural Festival	Galaxy Institute of Management
95	AjasMuhammed. M. F			

	(2nd place)			
96	MuhammedShahezedMoosa(2nd place)			
97	Mohammed Fadil (2nd place)			
98	Abhijith. S (2nd place)			
99	Naseehul Islam (2nd place)			
100	ShebinSabu (2nd place)			
101	AkhilMurali (2nd place)	Mime	CROSSROADS 2015	Mar Baselios College of Engineering
102	AjasMuhammed(2nd place)			
103	Abhijith. S (2nd place)			
104	Naseehul Islam (2ndplace)			
105	MuhammedFadil (2nd place)			
106	Thanseer (2nd place)			
107	SreekumaraGanapathy	Poster Presentation	Poor Construction Practices in the Field and Remedies	Einstein College of Engineering
108	Syed Mohamed Rebai	Debate	ILLUMINA 2k15	Noorul Islam University
109	Neethu. R. Nair			
110	KavyaDharesh			
111	SumaiyaBeevi			
112	Nimish Johnson Vinu			
113	AmalAsok	Paper Presentation	Advances in Construction Materials and Structures	St.Peters University
114	Athul.R.B			

- **In-plant / Practical project training :**

Industry	Training	Duration	Students
Tuticorin Thermal power Station	Construction site	09/06/2014 to 13/06/2014	MydeenPillai. T. S. S
Prestige Bella Vista Project, Kattupakkam, Chennai	Construction site	07/07/2014 to 12/07/2014	MydeenPillai. T. S. S
I-PARK, Kazhakootam	High Rise building Construction site	29/01/2015 to 30/01/2015	HafeesNizamudeen
I-PARK, Kazhakootam	High Rise building Construction site	29/01/2015 to 30/01/2015	Jeevan. S. Jayan
I-PARK, Kazhakootam	High Rise building Construction site	29/01/2015 to 30/01/2015	Kelvin GeorginKurian
I-PARK, Kazhakootam	High Rise building Construction site	29/01/2015 to 30/01/2015	Jubin. P. Buji

48. Give details of "beyond syllabus scholarly activities" of the department:

- Natural Camp at Parambikulam Wild Life Sanctuary
- Industrial Visit to Thenmala Dam
- Visit to ISRO Rocket launching Station
- Regular Research colloquium meeting is conducted in the department once in a month. All staff members are encouraged to make a presentation in their area of interest. It proves to be a wonderful platform for staff members to share and gain knowledge in the recent trends of Civil Engineering.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details

Accredited by International Accreditation Organization,

ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

- Once in a year, board of studies meeting is conducted. Experts from industries and academic institutions form part of the board of studies. The curriculum and syllabus is framed by incorporating the suggestions given by the board of studies members.
- Intra-moral courses, placement training programs, software skills and career skill programs help the students to enhance their personality and thereby elevating employability.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- The strength of department is attributed to learning oriented pedagogical practices by the experienced and committed faculty from diversified facets of Civil Engineering.
- Highly motivated and technically qualified teachers.
- Healthy relationship among administration, teachers and students.
- Access to many scientific journals.
- Sophisticated testing and instrumentation Centre.
- Faculties with industrial experience.
- Excellent infrastructure.
- Highly equipped laboratories.

Weakness

- The institution is located in a rural area and thereby industrial exposure is less. However it is being compensated by frequent industrial visits arranged on regular basis.
- Limited scope for participation in international level research and consultancy.
- Limitations in inviting international funding agencies for collaborative research.

Opportunities

Employment opportunities in Private and Government Construction Sector.

52. Future plans of the department :

- Starting of diversified courses in thrust areas like Infrastructure, Construction Engineering, Disaster Management and Environmental Engineering at UG level.
- It also proposed to start courses like Earthquake Technology, CAD, Infrastructure, Transportation Planning and Software for Civil

Engineering at PG level.

- The department is very ambitious to provide better research facilities with the most modern equipments in all the laboratories and develop itself into a software development centre in the field of Civil Engineering.

Department Evaluative Report

Department of Electronics and Communication Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Electronics and Communication Engineering
Evaluative Report

1. Name of the Department :
Department of Electronics and Communication Engineering

2. Year of establishment:
1989

3. Is the Department part of a School/Faculty of the university :
Yes, Faculty of Electrical and Electronics Engineering.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :
UG – B.E degree in Electronics and Communication Engineering
U G- B.E degree in Avionics Engineering
PG – M.E degree in Communication Systems
Ph.D in Electronics and Communication Engineering

5. Interdisciplinary programmes and departments involved:

Sl. No.	Names of the Interdisciplinary courses offered	Department Offering the Course
1	Engineering Mathematics	Department of Mathematics
2	Foreign Languages	Department of English
3	Career Skills	Department of English
4	Presentation Skills	Department of English
5	Fundamentals of Data Structures and Algorithms	Department of Information Technology

6. Courses in collaboration with other universities, industries, foreign institutions, etc :

Sl.No	Course	Universities
1	B.E – ECE	University of Mara - Malaysia
2	M.E – Communication Systems	Liverpool John Moores University – U.K

7. Details of programmes discontinued, if any, with reasons :
Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System.
Semester System / Choice Based Credit System

9. Participation of the department in the courses offered by other departments :

Sl. No	Name of the courses handled for other departments	Name of the other department
1	Digital Electronics	Msc. Software Engineering
2	Electronics	Department of Marine Engineering
3	Bio Signal Processing	Department of Bio-medical Engineering
4	Integrated Circuits	Department of Bio-medical Engineering
5	Mechectronics	Department of Mechanical Engineering
6	Fundamentals of DSP	Department of Bio-medical Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors Asst. Professors/others) :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	3	3
Associate Professors	2	2	2
Asst. Professors	8	8	8
Others	6	6	6

11. Faculty profile with name, qualification, designation, area of specialization , experience and research under guidanceNames of Staff members in the academic year 2014-2015:

Name	Qualification	Designation	Specialization	No:of years of Experience	No.of Ph.D students guided for the last 4 yrs
Dr.J.Jaya Kumari	B.E,M.Tech Ph.D	Professor	Wireless Communication	18.8	8
Dr..Sharmini Enoch	B.E,M.Sc, Ph.D	Professor	Wireless Communication	8	7
Dr.N. Santhi	B.E, M.E,Ph.D	AssociateProfessor	Image Processing	24.4	8
Mrs.G. Arockia Selva Saroja	B.E,M.E	AssociateProfessor	Communication Systems	16.5	-
Mr.T. Gopalakrishnan	B.E,M.E	Assistant Professor	Communication Systems	12.4	-

Mrs.M. Sucharitha	B.E,M.E	Assistant Professor	Communication Systems	12.1	-
Dr. M. Malleswari	B.E,M.E, Ph.D	Assistant Professor	Optical Communication	12.10	-
Ms.K. Chandrakala	B.E,M.E	Assistant Professor	Communication Systems	6.10	-
Mrs.D. Shahi	B.E,M.E	Assistant Professor	Communication Systems	8.5	-
Mrs.S. Mary Sinthuja.Jain.Preetha	B.E,M.E	Assistant Professor	Digital Communication and Network Engineering	8.8	-
Ms.M. Sony	B.E,M.E	Assistant Professor	Applied Electronics	6.4	-
Mr.N. Subash	B.E,M.E	Assistant Professor	Applied Electronics	7.5	-

Faculty Members Associated with Department of Mechanical Engineering

Name	Qualification	Designation	Specialization	No:of years of Experience	No.of Ph.D students guided for the last 4 yrs
Mr.R.S. Vinod Kumar	B.E,M.S, M.E	AssociatePr ofessor	Communication Systems	21.10	-
Mrs.S. Amala Shanthi	B.E, , M.E	AssociatePr ofessor	Microwave and optical Engineering	19.11	-
Mr.K.P.Rajesh	B.E,M.E	Assistant Professor	Applied Electronics	5.2	-
Dr. K.S.Vijula Grace	B.E,M.E, Ph.D	Assistant Professor	Power Electronics and Drives	17.1	-
Mrs.S.Divya	B.E,M.E	Assistant Professor	Computer Science and Engineering	7.5	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus Professors :

Name	Qualification	Designation	Specialization	No. of Years ofexperience
Dr.R.S.Moni	B.Sc(Engg), M.Tech, Ph.D	Professor	Electronics and Communication	45

13. Percentage of classes taken by temporary faculty(Research Scholar) – programme-wise information:

Sl. No	YEAR	PROGRAMME	PERCENTAGE OF CLASSES
1.	2014-2015	UG	12.5%
		PG	8.3%

14. Programme-wise Student Teacher Ratio:

Sl. No	PROGRAMME	STUDENT TEACHER RATIO
1.	UG	15:1
2.	PG	12 :1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

	Sanctioned	Filled	Actual
Number of Academic Support (Technical) Staff	4	4	4

16. Research thrust areas as recognized by major funding agencies:

3G/4G Mobile communication system	• Channel estimation Analysis in MIMO-OFDM based 4 G Mobile Networks • Wavelet transform Based Multi –carrier CDMA for 4 G Wireless communication • Increased Data Rate for Wireless 4G Networks Using OFDM-MIMO • Neural network based handoff performance improvement on MIMO enabled communication system • Error control coding-Highly improved hybrid turbo code • ISI/ICI reduction in MIMO-OFDM with imperfect channel state information • Enhancement of security and privacy using frequency domain scramblers
Antenna design	• An Efficient and Compact Antenna Design for Wi-MAX 4G Communication Systems • UWB Antenna Design for under water communication • Design and analysis of microstrip patch antennas • Design of antenna for low SAR and multiband services
VLSI	• Embedded System

Image Processing	• Lung Cancer Detection • Brain Tumor Detection • Image Denoising • Texture Characterization

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Nil

18. Inter-institutional collaborative projects and associated grants received a0National collaboration b) International collaboration :

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with :

Sl. No	Name of Research facility/ Centre	Type of Recognition (State/National/International)
1	Electronics and Communication and Payload Lab	National

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Nil

22. Publications:

∗ Number of papers published in peer reviewed journals (national / international) : 61

S.N	Name of the faculty	Journal Name	Title	Vol /year
1.	Dr T. Ruban Deva Prakash	International Journal of Electrical and Power Engineering.	A Robust Control Strategy for UPFC to Improve Transient Stability Using Fuzzy Bang-Bang Control.	2007
2.	Dr T. Ruban Deva Prakash	International Journal of Electrical and Power Engineering.	Voltage Sag Mitigation in Multi-line Transmission System Using Generalized Unified Power Flow Controller	2007
3.	Mrs.N. Santhi	Asian Journal of Information	Extraction of Structural Shape of Low DOF	2007

		Technology	Image Using Morphological Operators	
4.	Mrs.N. Santhi	Asian Journal of Information Technology	Image Segmentation Using Morphological Filters and Region Merging	2007
5.	J. Jaya Kumari	Journal of Engineering and Applied Sciences.	Interference analysis of Partial Response Coded OFDM Signals.	Vol:3, No.4,2008 , pp:363-367
6.	J. Jaya Kumari	International Journal of Electronics and Communicatio n Engineering	Bandwidth Efficient Signaling Scheme for OFDM	Vol:2, No.2,2008 , pp:109-119
7.	R.S. Moni	National Journal of Technology	A Comparative Analysis of filters for Histogram Smoothing in Automatic Segmentation of CN from Brain MR Images	Vol:5, No.2,2009 , pp:83-87
8.	J.Rajeesh	National Journal of Technology	A Comparative Analysis of filters for Histogram Smoothing in Automatic Segmentation of CN from Brain MR Images	Vol:5, No.2,2009 pp:83-87
9.	J. Jaya Kumari	International Journal of Electronics and Communicatio n Engineering	A Spectrally Efficient Method for Reducing Intercarrier Interference in OFDM	Vol:2, No.1,2009 pp:15-22
10.	Dr T. Ruban Deva Prakash	Ss Study of sensitivity of photo-Voltaic Inverters toVoltage Sags	Journal on Electrical Engineering.	March, 2009
11.	S.K.Sreeja	National Journal of Technology	A Comparative Analysis of Filters for Histogram Smoothing in Automatic Segmentation of CN from Brain MR Images	2009
12.	J.Rajeesh	International Journal of Recent Trends in Engineering	Sampling,Reconstructio n and Sampling Rate Conversion of Band Limited Chirp Signals Using Fractional Fourier Transform	2009

			Domain	
13.	R.S. Moni	International Journal of Electronic Engineering Research	Knowledge Based Automatic Segmentation of Hippocampus in Wave atom Preprocessed MRI	Vol:2, No.3,2010 , pp:409-418
14.	R.S. Moni	International Journal of Image Processing	Noise Reduction in Magnetic Resonance Images Using Wave Atom Shrinkage	Vol:4, Issue:2,200pp:131-141
15.	T. Gopala Krishnan	International Journal of Image Processing	Noise Reduction in Magnetic Resonance Images Using Wave Atom Shrinkage	Vol:4, Issue:2,200pp:131-141
16.	J.Rajeesh	International Journal of Image Processing	Noise Reduction in Magnetic Resonance Images Using Wave Atom Shrinkage	Vol:4, Issue:2,200 pp:131-141
17.	R.S. Moni	International Journal of Image Processing & Networking Techniques	Wave Atom Shrinkage based Noise Reduction in Magnetic Resonance Image.	Vol:3, No.1,2010 , pp:25-32
18.	T. Gopala Krishnan	International Journal of Image Processing & Networking Techniques	Wave Atom Shrinkage based Noise Reduction in Magnetic Resonance Image.	Vol:3, No.1,2010 , pp:25-32
19.	J.Rajeesh	International Journal of Image Processing & Networking Techniques	Wave Atom Shrinkage based Noise Reduction in Magnetic Resonance Image.	Vol:3, No.1,2010 , pp:25-32
20.	T. Gopala Krishnan	International Journal of Electronic Engineering Research	Knowledge Based Automatic Segmentation of Hippocampus in Wave atom Preprocessed MRI	Vol:2, No.3,2010 , pp:409-418
21.	T. Gopala Krishnan	International Journal of Image Processing	Noise Reduction in Magnetic Resonance Images Using Wave Atom Shrinkage	Vol:4, Issue:2,200 pp:131-141
22.	T. Gopala Krishnan	International Journal of Electronic Engineering Research	Knowledge Based Automatic Segmentation of Hippocampus in Wave atom Preprocessed MRI	Vol:2, No.3,2010 , pp:409-418
23.	J.Rajeesh	International Journal of	Knowledge Based Automatic	Vol:2, No.3,2010

		Electronic Engineering Research	Segmentation of Hippocampus in Wave atom Preprocessed MRI	pp:409-418
24.	T. Gopala Krishnan	International Journal of Image Processing & Networking Techniques	Wave Atom Shrinkage based Noise Reduction in Magnetic Resonance Image.	Vol:3, No.1,2010 , pp:25-32
25.	J. Jaya Kumari	International Journal of Engineering Science and Technology	MIMO-OFDM for 4G Wireless Systems.	Vol:2, Issue:7,200
26.	R.S. Moni	International Journal of Electronic Engineering Research	Knowledge based Automation segmentation of Hippocampus in wave atom proposed MRI	Vol:2 No:3,2010 , PP 409-418
27.	R.S. Moni	International Journal of Image Processing	Noise Reduction in Magnetic resonance Images using wave atom Shrinkage	Vol:4 No:2,201 PP 131-141
28.	R.S. Moni	International Journal of Image Processing & Networking Techniques	Wave atom Shrinkage based Noise reduction in magnetic Resonance Image	Vol:3 No:1,2010 , PP 25-32
29.	Dr T. Ruban Deva Prakash	Particle Swarm Optimization Based Reactive Power Optimization	Journal of Computing	January, 2010
30.	Dr T. Ruban Deva Prakash	Modified Multi-Area Load-Frequency Control of Deregulated Interconnected Thermal Power Systems using Genetic Algorithm (GA)	Transactions of the Institute of Measurement and Control	April,2010
31.	Dr T. Ruban Deva Prakash	Application of Simulated Annealing for Solving Economic Dispatch	International Journal for Decision Making for Supply Chain Management	May,2010

		Problem		
32.	Sharmini Enoch	IET Electronic letters	Mitigation of rain attenuation in fixed WiMAX using cellsite diversity	Vol:47, Issue:5,201 pp:1349-351
33.	N. Santhi	International Journal of Computer Applications	A Novel Approach to Shape decomposition and Representation using Soft Morphological Filters	26(9):7-10, July 2011.
34.	Dr. J. Jaya Kumari	European Journal of Scientific Research	Performance Evaluation of an effective Hybrid distributed document clustering algorithm	Vol.86, No:2 Sep 2012 pp. 283-293
35.	Dr. J. Jaya Kumari	European Journal of Scientific Research	Performance evaluation of Standard Image Segmentation Methods and Clustering Algorithms for segmentation of Brain Tumor Images	Vol. 79, No. 2, (2012)pp: 166-179
36.	N.Santhi	European Journal of Scientific Research	An Enhanced Approach for Morphological Shape Representation and Image Retrieval	Vol.77 No.3 (2012), pp.339-349
37.	R.S.Vinoth Kumar	European Journal of Scientific Research	Adaptive patch based texture Synthesis using modified boundary Determination techniques	Vol.77 No.4 (2012), pp.495-507
38.	K.S Vijula Grace	American Journal of Applied Sciences	Multicore Based Open Loop Motor ControllerEmbedded System for Permanent Magnet Direct Current Motor	Vol. 9 (6): 924-933, 2012
39.	K.S Vijula Grace	European Journal of Scientific Research	Multicore Based Closed Loop PMDC Motor Controller Embedded System	Vol.76 No.3 (2012), pp.499-513
40.	Dr. J. Jaya Kumari	International review on computers and software [ISSN 1828-6003]	Enhanced distributed text document clustering based on semantics	Vol.8, No:10, Oct 2013
41.	Dr. J. Jaya Kumari	International review on computers and software	Comparative analysis of Intrusion Detection system with mining	Vol.8, No:10, Oct 2013

		[ISSN 1828-6003]		
42.	Dr. J. Jaya Kumari	International review on computers and software [ISSN 1828-6003]	Texture based segmentation of MRI brain tumor images	Vol.8, No:9, Sep 2013
43.	Dr. J. Jaya Kumari	International Journal of Scientific & Engineering Research	A survey on channel estimation techniques in MIMO-OFDM mobile communication system	Vol.4, Issue No.5, May 2013pp.151 -1855
44.	R.S.Ganesh	International Journal of Scientific & Engineering Research	A survey on channel estimation techniques in MIMO-OFDM mobile communication system	Vol.4, Issue No.5, May 2013pp.151 -1855
45.	Dr. J. Jaya Kumari	International review on computers and software[ISSN 1828-6003]	Comparative analysis of Intrusion Detection system with mining	Vol.8, No:10, Oct 2013
46.	Dr. J. Jaya Kumari	International review on computers and software[ISSN 1828-6003]	Texture based segmentation of MRI brain tumor images	Vol.8, No:9, Sep 2013
47.	Dr. J. Jaya Kumari	International Journal of Scientific & Engineering Research	A survey on channel estimation techniques in MIMO-OFDM mobile communication system	Vol.4, Issue No.5 May 2013pp.151 -1855
48.	M.Malleswari	Springer-Research Articles	Construction and bit error analysis of Zero cross-correlation codes for SAC-Optical CDMA system	2013
49.	M.Malleswari	LifeScience Journal	Variable Lenth Variable-Weight prime codes with zero cross correlation for SAC-OCDMA communication systems	2013-10(2)
50.	M.Malleswari	European Journal of Scientific Research	Evaluation of Split-Expanded modified Prime code for SAC-OCDMA communication systems	Vol.94, Issue No.4,2013
51.	M.Malleswari	International Journal of Engineering	Modulo-P Based Constant Weight Variable Length Prime	ISSN 0975-4024 Vol 5 Dec

		and Technology	Codes for SAC-OCDMA System	13-Jan 14
52.	Dr. J. Jaya Kumari	International Arab Journal of Information Technology.	A Brain abnormality detection and tissue segmentation technique by using dual mode classifier	[ISSN:239-4524]
53.	Dr.J.Jaya kumari	International Journal of Applied Engineering Research	Optimal speech scrambling Technique for OFDM based system	ISSN 0973-4562 Vol 9 No 24 (2014)
54.	Dr.J.Jaya kumari	Progress in Science and engineering research journal	A review of analog speech scrambling for secure communication	ISSN 2347-6680 vol2 issue 4/6 2014
55.	Dr.J.Jaya kumari	Australian journal of basic and Applied sciences	Optimal PRCC coded OFDM Transceiver Design for fading Channels	ISSN 1991-817 Vol 8(17) 2014
56.	Dr.J.Jayakumari	International journal of Applied research	Optimal MIMO-OFDM Transceiver design for fading channels	ISSN 0973-4562 Vol 9 No 24, 2014
57.	Dr.J.Jaya kumari	Journal of theoretical and applied information technology	Performance Analysis of WLAN under variable number of Nodes using adjustable parameters in EDCA	ISSN 1992-8645 vol 60, no2 ,2014
58.	Dr.J.Jaya kumari	Academic Journal – Scientific research and Essays	An Efficient hybrid distributed document clustering Algorithm	ISSN 1992-224 Vol10(1)-2015
59.	Dr.J.Jaya kumari	Springer India	Vertical handoff Scheme in Integrated WiMAX and WLAN Networks	2015
60.	Dr.J.Jaya kumari	Springer India	Performance analysis of EDCA under Light, Heavy and variable data Sources	2015
61.	Dr.J.Jaya kumari	Springer India	Optimized distributed text document clustering A	2015

∗ Monographs: Nil
∗ Chapters in Books:Nil
∗ Edited Books :Nil
∗ Books with ISBN with details of publishers: 1

"Basic Electronics Engineering",Dr.J.Jayakumari,V.Anusooya, T.K.Sreeja, Anuradha publications,1 ed,2012.(ISBN:978-81-8472-203-1)

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 50
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average :0.2
- h-index

23. Details of patents and income generated :

Nil

24. Areas of consultancy and income generated :

Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

Nil

26. Faculty serving in

a) National committees : Nil

b) International committees: Nil

c) Editorial Boards :

Dr.J.Jayakumari is serving as *Editorial Board Member for the following journals*

- International Journal of Electronics Communication and Computer Engineering(IJECCE) (ISSN : 2249 –071X) .
- International Journal of Engineering Innovations and Research(IJEIR)(ISSN No:2277-5668)
- International Journal of Electronics and Communication Engineering (IJECE) (ISSN 0974-2166)
- Advances in Wireless and Mobile Communications (AWMC) (ISSN 0973-6972) International Journal of Wireless Networks and Communications (IJWNC) (ISSN 0975-6507)
- International Journal of Electronics Engineering Research (IJEER) (ISSN 0975- 6450)
- International Journal of Wireless Communication and Simulation (IJWCS) (ISSN 2231-1254)
- International Journal of Electronic and Communication Engineering (IJECR) (ISSN 2231-1246)
- International Journal of Mobile Communication and Networking (IJMCN) (ISSN 2231-1203)
- International Journal of Communication Engineering and Technology (IJCET) (ISSN : 2277- 3150)
- International Journal of Wireless Networks and Applications (IJWNA) (ISSN No. 2250 - 3250)

d) any other : Nil

26. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Sl.	Faculty	Program	Date
1	Prof. R. S. Vinod Kumar	AICTE sponsored staff development Programme on Signal and Image Analysis Using Time/Frequency Transforms	30th May to 12th June 2011
2	Prof. R. S.Vinod Kumar	Short Term Training Programme on Image processing with Practical Applications	14th June to 18th June 2010
3	Prof. O. Jeba Shiney	Short Term Training Programme on Image processing with Practical Applications	14th June to 18th June 2010
4	Prof. O. Jeba Shiney	Faculty development programme in human resource management	26th to 28th August 2010
5	Prof.J.Benita	Faculty development programme in human resource management	26th to 28th August 2010
6.	Prof. O. Jeba Shiney	Two day workshop on LaTex	15th and 16th December 2010
7.	Prof.J.Benita	Two day workshop on LaTex	15th and 16th December2010
8.	Prof. R. S.Vinod Kumar	Two day workshop on LaTex	15th and 16th December2010
9.	Prof.Arockia Selvasaroja.G	Two day workshop on LaTex	15th and 16th December2010
10.	Prof.M.sucharitha	National level workshop on Engineering graphical system design using Lab Veiw	5thJanuary to 7th 2011
11.	Prof.J.Benita	National level workshop on Engineering graphical system design using Lab Veiw	5thJanuary to 7th 2011
12.	Prof. R. S.Vinod Kumar	Staff development programme on signal and image analysis using time frequency transforms	30th may to 12th june
13.	Prof. R. S.Vinod Kumar	Two day seminar on wavelet transform and its application	4th and 5th Febraury 2011
14.	Prof I. Sowmy	Two day workshop on Gateway to research	23th and 24th September 2011
15.	Prof K.P.Rajesh	Orientation programe	18th October 2011
16.	Prof K.P.Rajesh	A three day skill based programme on automation engineering	13th to 15th December 2011

17.	Prof. R. S.Vinod Kumar	Two day technical seminar on speech and audio signal processing	14th to 15th September 2012
18.	Prof. R. S.Vinod Kumar	DRDO sponsored National workshop on Advanced signal processing	6th to 7th January 2012
19.	Prof.J.Benita	Two days workshop on application of statistical methods	11th and 12th October 2012
20	Prof. R. S.Vinod Kumar	Two days workshop on application of statistical methods	11th and 12th October 2012
21.	Prof.Arockia Selvasaroja.G	Two days workshop on application of statistical methods	11th and 12th October 2012

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**
- **percentage of students doing projects in collaboration with other universities / industry / institute**

year	Students done in-house projects In (%)	Students done projects in collaboration with industry/institute In (%)
2014-2015	85	15
2013-2014	83	17
2012-2013	72	28
2011-2012	64	36
2010-2011	80	20

29. Awards / recognitions received at the national and international level by

- **Faculty: Nil**
- **Doctoral / post doctoral fellows : Nil**
- **Students**

Intra College Competitions 2010-2013

S.NO	Name of the student	Date of Participation	College Name	Competition	Prize Details
1	Mary Amirtha	Sept 2011	Anuragam	G.K Contest	Third

Inter College Competitions 2010-2012

S.NO	Name of the student	Date of Participation	College Name	Competition	Prize Details
1.	Manu.G.M	October 21,2010	Noorul Islam Centre For Higher	Quiz	I

			Education		
2.	Amritha	October 2011	Noorul Islam Centre For Higher Education	Quiz	I
3.	Muthu Lekshmi .S	Academic year 2010-2011	Noorul Islam Centre For Higher Education	Merit Certificate	I
4.	Karthika Kishore	13 October 2011	Noorul Islam Centre For Higher Education	Essay Competition	III
5.	Mary Amritha	13 October 2011	Noorul Islam Centre For Higher Education	Essay Competition	III
6.	Karthika Kishore	7th March 2011	Noorul Islam Centre For Higher Education	Debate	I
7.	Muthu Lekshmi .S	Academic year 2010-2011	Noorul Islam Centre For Higher Education	Merit Certificate	II
8.	Muthu Lekshmi .S	2nd March 2012	Noorul Islam Centre For Higher Education	Paper Presentation	I
9.	Revathy.S	18-2-2012 to 24-2-2012	Noorul Islam Centre For Higher Education	Healthy Youth For Healthy India	I
10.	Revathy.S	October 13,2011	Noorul Islam Centre For Higher Education	Essay Competition	III
11.	Nithya R.S	March 18th,2011	Noorul Islam Centre For Higher Education	Skit	II
12.	Nithya R.S	Feb 28th & 29,2012	Noorul Islam Centre For	Water Rocketry	II

			Higher Education		
13.	Nithya R.S	March 7th,2011	NICHE	Debate	II
14.	Sethu Lekshmi.P. Mammadhan	Feb 28th & 29,2012	Noorul Islam Centre For Higher Education	Water Rocketry	II

Inter College Competitions 2014-2015

S.No	Name of the student	Date of Participation	College Name	Competition	Prize Details
1	Ashwin M pillai	7th March 2014	Noorul Islam Centre For Higher Education-	Debate	First
2	Ashwin M pillai	12th March 2014	Noorul Islam Centre For Higher Education-	Debate	First
3	Ashwin M pillai	20th March 2014	Noorul Islam Centre For Higher Education-	Debate	First
4	Rakhi KJ	13th June 2014	Department of Telecommunication ,wireless planning and coordination. Govt of india	Amateur wireless station licence	Valid up to 2034
5	Lakshmi V Nair	13th June 2014	Department of Telecommunication ,wireless planning and coordination. Govt of india	Amateur wireless station licence	Valid up to 2034

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

2010-11	**Event**	**Organized by**	**Date**
	National Conference-Natcon 10	Dept of ECE	17.02.2010
	Symposium- Zircons	Dept of ECE	03.03.2010
	Symposium- Elcomz 10	Dept of ECE	21.10.2010
	Soft skill Trainning program	Dept of ECE	26.07.2010
	Technical workshop on Telecomm by ZTE-Telecommunications, Bangalore	Dept. of ECE	22.10.2010
	interactive session on ”Applications of Medical	IEI Student Branch,	06/10/10

	Electronics"	Dept. of ECE	
	Seminar on "Attitude and personality development"	IEI Student Branch, Dept. of ECE	14.10.2010
2011-12.	IEEE sponsored 2011 International conference on Signal processing, Communication, Computing and Networking Technologies	Dept of ECE	21.07.2011&22.07.2011
	Soft skill Trainning program by Axiom Technologies	Dept of ECE	19.08.2011 to 21.08.2011
	Technical talk on "Open Issues in Engineering" by Shri. E.E. Raja kumar, Former chairman ,IEEE Kerala Section	IEEE student Branch	20/10/11
	Minicolloquium on Microelectronics Circuits Systems	IEEE SSCS India Chapter & Dept. of ECE	24-2-2012
	Symposium RENVENZA	Dept. of ECE	02-03-2012
	Seminar on Personality development	IEI Student Branch, Dept. of ECE	24-04-2012.
2012-13	Future Embedded Systems & Applications	IEEE Students Branch and Dept. of ECE	31-07-2012
	A technical Quiz Competition	IEEE Students Branch and Dept. of ECE	16-08-2012
	Guest lecture on "Wireless comm." by BSNL Divisional engineer Mr.Senthil Kumar	Dept. of ECE	08-09-2012
	Guest lecture on "Artificial Intelligence" by Prof S.K.Pillai,Placement Officer NIU and Aptitude Test	IEEE Student Branch and Dept. of ECE	05-02-2013
	2013 IEEE Conference on Information and Communication Technologies	IEEE India Chapter and Dept. of ECE	11-04-2013 & 12-04-2013
	Work shop on Soft skill for professional excellence	IEEE Student	6-03- 2013

		Branch and Dept. of ECE	
2013-14	National Technical Symposium ALTIUS-2014	Dept. of ECE	7 -03- 2014
	Image Processing using MAT lab on	Dept. of ECE	14-08-2013
	Carrier Planning –The road ahead on	Dept. of ECE	19 - 08 - 2013
	Embedded C Programming"	Dept. of ECE	7 -04 -2014 & 8-04- 2014
2014-15	Make Gadgets' product Development Program using Embedded System	Dept. of ECE	20 -08-2014
	Robotics' in association with IITE Jodhpur and RoboSejegous Tech Pvt Ltd.	Dept. of ECE	17 -09 – 2014 & 18-09- 2014
	Global Conference on Communication Technology GCCT-2015	Dept. of ECE	23- 04-2015 & 24 - 04 - 2015
	International Conference on Advances in Engineering and Applied Sciences ICAEAS-2015	Dept. of ECE	29- 04-2015 & 30 - 04 - 2015

31. Code of ethics for research followed by the departments :

1. The university recognizes the importance of research in higher education and its contribution to the development of our nation. The Board of Research , Development and Consultancy (BRDC) of the university will be the apex body to monitor all research programmes, including Doctoral Research, with due approvals from the Board of Management (BOM) of the university. The university offers Ph.D. programme to eligible scholars who are interested in doing research on full time or part time basis.
2. Separate Doctoral Committee is constituted for each research scholar to consider his research proposal, to prescribe the course work to be undergone by the research scholar, to continuously monitor the progress of the research scholar and to advise midcourse corrections whenever needed.
3. The Doctoral Committee of a research scholar will meet within a month from the date of communication of his/her registration to prescribe the course work and thereafter at least once in every six months. However, the meetings shall be convened whenever

necessary.

4. All research scholars shall successfully complete four courses prescribed by the Doctoral Committee.
5. Immediately after the completion of the course work, the Doctoral Committee will conduct a Comprehensive oral Examination for every research scholar to test the background knowledge of the research scholar in the broad area of specialization. The result of this examination and the results of the course work shall be detailed in the minutes of the Doctoral Committee and forwarded to the Director (Research), within two months from the date of the comprehensive examination.
6. After successful completion of all the prescribed courses and the comprehensive oral examination, a research scholar can submit her /his synopsis of the thesis. The research scholar should have his/her credit at least one paper either published or accepted for publication in one refereed journal.
7. The thesis shall be submitted within three months of the approval of the synopsis by the Doctoral Committee to the Registrar.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male	Pass percentage Female
UG-(2014-2015)	50	16	09	-	
UG-(2013-2014)	102	39	29	81.81%	95.83%
UG-(2012-2013)	109	42	29	97.61%	100%
UG-(2011-2012)	140	51	25	65.11%	89.65%
UG (LE)-(2011-2012)	56	20	3	100%	100%
UG-(2010-2011)	120	46	37		
PG-(2014-2015)	16	03	03		
PG-(2013-2014)	19	03	06	100%	100%
PG-(2012-2013)	29	06	13	100%	100%
PG-(2011-2012)	49	08	21	100%	100%
PG-(2010-2011)	49	06	23	100%	100%

33. Diversity of students :

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG-(2014-2015)	33.33%	50%	16.66%	--
PG-(2013-2014)	22.22%	33.33%	44.44%	--

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG-(2012-2013)	--	42.1%	57.89%	--
PG-(2011-2012)	--	37.93%	62.06%	--
PG-(2010-2011)	--	24.13%	75.86%	--

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

GATE Examination

Academic Year	Number of students
2010-2011	NIL
2011-2012	NIL
2012-2013	NIL
2013-2014	nil
2014-2015	1

NET, SET Examinations: NIL

35. Student progression :

Year:2011

Student progression	Percentage against enrolled
UG to PG	**3%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**NIL**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	6%
Entrepreneurs	NIL

Year: 2012

Student progression	Percentage against enrolled
UG to PG	**8%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**3%**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	43%
Entrepreneurs	NIL

Year: 2013

Student progression	Percentage against enrolled
UG to PG	**12%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**NIL**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	24%
Entrepreneurs	NIL

Year: 2014

Student progression	Percentage against enrolled
UG to PG	**15%**
PG to M.Phil.	**NIL**
PG to Ph.D.	**NIL**
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	10%
Entrepreneurs	NIL

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	95%
from universities from other States	5%
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 3

38. Present details of departmental infrastructural facilities with regard to :

a) Library

Total number of books = 2052
CDs = 15

b) Internet facilities for staff and students

Wi Fi and wired net in 25 systems

c) Total number of class rooms :6

d) Class rooms with ICT facility :1

e) Students' laboratories

S.No	Name of the lab	Total Cost of Equipments(Rs.)
1	Electronics Lab I and II	20,62,804
2	DSP Lab	48,17,755
3	Microwave Lab	10,78,168

4	RF Lab	6,57,974
5	Fiber optics Lab	4,32,428
6.	VLSI Lab	7,00,065

f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates :
List of Doctoral Students

a) from the host institution/university

Sl. No	NAME	UNIVERSITY
1.	Ms.S.Amala Shanthi	Noorul Islam University
2.	Ms.G.Arockia Selva Saroja	Noorul Islam University
3.	Mr.R.S.Ganesh	Noorul Islam University
4.	Mr.T.Gopala Krishnan	Noorul Islam University
5.	Ms.M.Mary Synthuja Jain Preetha	Noorul Islam University
6.	Mr.N.Subash	Noorul Islam University
7.	Mr.K.P.Rajesh	Noorul Islam University
8.	Ms.G.G.Bramiga	Noorul Islam University
9.	Ms.G.S.Priya	Noorul Islam University
10.	Mr.T.Megin	Noorul Islam University
11.	Mr.J.Sanil	Noorul Islam University
12.	Mr.C.T.Krishna Deepth	Noorul Islam University
13.	Ms.J.Binisha Rose	Noorul Islam University
14.	Ms. Jinju Joy	Noorul Islam University
15.	Mr.Kowsi Rajan	Noorul Islam University

b) from other institutions/universities

Sl. No	NAME	UNIVERSITY
1.	Mr.R.S.Vinod Kumar	Anna University Tirunelveli
2.	Ms.M.Sucharitha	Anna University Tirunelveli
3.	Ms.J.Benita	Anna University Coimbatore

Post Doctoral Students :Nil
Research Associates :Nil

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Yes, Discussions were carried with experts from industry.

42. Does the department obtain feedback from:

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. Discussions are conducted on curriculum to get suggestions and ideas from faculties. Based on this, several changes were made in the curriculum

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The department obtains feedback from students on staff and teaching-learning evaluation. It is used to improve the teaching-learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The department obtains feedback from Alumni and employers on the programmes offered. It is used to improve the teaching-learning process.

43. List the distinguished alumni of the department (maximum 10) :

Year	Name of the candidate	Employed in
2013-2014	Reshma Rajan R Martein Harish Joe V. Jose Hemanth A Mohamed Rafi S Mohamed Faizal A Visvanathan P Rehna Moithu Subramonian S.K.	TCS HCL HCL HCL Infosys Sutherland WIPRO Suntech business solutions CMS infosystem
2012-2013	Gayathri.N.S Chaithara babu Reshma Monisha	TCS
2011-2012	Chandrakala m Vishnu chand Shabnam m	TCS
2010-11	Reshmi.R.V Aswin S.P Eyasha Mohammed	TCS CRUISELINE HCL
2009-10	Ijas Ahmed	INFOSYS
	Mohammed Meeran	TATA CONSULTANCY SERVICES

	Safeer Ahmed	HCL TECHNOLOGIES
	Gayathri	COGNIZANT TECHNOLOGY SOLUTION

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Sl. No.	Programme Organized	Venue	Date
1.	Make Gadgets' product Development Program using Embedded System	Dept. of ECE	20 -08-2014
2.	Robotics' in association with IITE Jodhpur and RoboSejegous Tech Pvt Ltd.	Dept. of ECE	17 -09 – 2014 & 18-09- 2014
3.	Embedded C Programming"	Smart Class Room Dept. of ECE	7 -04 -2014 & 8-04- 2014
4.	Soft skills for professional excellence	Smart Class Room Dept. of ECE	06-03-2013
5.	Carrier Planning – The road ahead on	Smart Class Room Dept. of ECE	19 - 08 - 2013
6.	Interaction Programme with Dr. K.S. Chari, Chairman, IEEE India SSCS Chapter	A/C Auditorium, NICHE	23rd February 2012
7.	Minicolloquium on Microelectronics Circuits and Systems	A/C Auditorium, NICHE	24th February 2012
8.	Paper Presentation Contest on Electronics and its Applications	Smart Class Room, Dept. of ECE, NICHE	27th April 2012
9.	One Day Workshop on Future Embedded Systems and Applications	A/C Auditorium, NICHE	31st July 2012
10.	Technical Quiz	Smart Class Room, Dept. of ECE, NICHE	16th August 2012
11.	Lecture on " Preparation for a Paper Presentation"	Smart Class Room, Dept. of ECE, NICHE	17th October 2012
12.	Personality Development	Smart Class Room, Dept. of ECE,	24th April 2012

	Programme	NICHE	
13.	Quiz Competition	Smart Class Room, Dept. of ECE, NICHE	27th April 2012
14.	IEEE Student Branch Inaugural Function	A/C Auditorium, NICHE	20th October 2011
15.	Seminar on Attitude and Personality Development	Smart Class Room, Dept. of ECE, NICHE	14th October 2010
16.	Quiz Competition	Smart Class Room, Dept. of ECE, NICHE	14th October 2010

45. List the teaching methods adopted by the faculty for different programmes :

1. Teaching using Black Board
2. Audio, LCD
3. Power Point
4. Over Head Projector
5. Video Conferencing
6. E-Learning
7. Guest Lecture
8. Industrial Visit
9. Smart Class Room Facility

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Programme objectives are constantly met through constructive feedback from students on teaching-learning process and student development programmes. After the assessment, quality measures are taken by conducting special classes, communication skill classes, soft skill classes, guest lectures on strengthening teaching-learning process, student study projects, participating and presenting papers in seminars along with curriculum, enhancing student's vocabulary and pronunciations to development learners' language competence. The Department constantly caters to the diverse linguistic aptitudes of the student community in a dynamic and student- centered manner.

47. Highlight the participation of students and faculty in extension activities :

- 6 Staff & 15 students of our dept are involved in the " NIU Student Nano Satellite project.
- Our Dept organized IEEE Conference on Information and Communication Technologies on 11th & 12th April 2013
- Our Dept organized IEEE Global Conference on Communication Technology GCCT-2015 on 23rd & 24th April 2015

- Our Dept organized International Conference on Advances in Engineering and Applied Sciences ICAEAS-2015 on 29th & 30th April 2015

48. Give details of "beyond syllabus scholarly activities" of the department :

International Conferences

ICSCCN 2011- International Conference on Signal Processing**,** Communication, Computing and Networking on 20th and 21st July 17 2013.

ICT 2013-2013 IEEE Conference on Information & Communication Techniques on 11th & 12th April 2013.

GCCT-2015 -IEEE Global Conference on Communication Technology on 23rd & 24th April 2015

ICAEAS-2015 - International Conference on Advances in Engineering and Applied Sciences on 29th & 30th April 2015

National Level Technical Symposium

The department of Electronics and Communication Engineering organized a national level Technical Symposium **RENVENZA 12** on 2nd March 2012.

The department of Electronics and Communication Engineering organized a national level Technical Symposium **BLITZ 2K13** on 18th and 19th March 2013.

Mini Colloquium

The department of Electronics and Communication Engineering and IEEE Solid State Circuit and Systems, India organized a **Mini Colloquium** on Microelectronics Circuits & Systems on 24th February 2012.

Institution of Engineers (India) Chapter of our dept has organized

i. Seminar on Application on Medical Electronics on 6th September 2010.
ii. Quiz Competition on 14th October 2010.
iii. Seminar on Attitude and Personality Development on 14th October 2010.
iv. Seminar on Personality development on 24th April 2012.
v. Quiz Competition on 27th April 2012.
vi. Work shop on Soft skill for professional excellence .
vii. Work shop on Career Planning – The Road ahead..!!! on 6th March 2013
viii. Quiz competition on 20/3/14
ix. Workshop on Embedded C programming on 7th and 8th April
x. 'Brain Buzz' Quiz competition on 19/8/2014
xi. A workshop on personality development on 15/10/14

Institution of Electrical and Electronics Engineering Branch of our college has organized

i. Seminar on importance of IEEE membership on 20th October 2011.
ii. Workshop on Embarrassing new Technologies on 20th October 2011.
iii. Seminar on preparation for paper presentation on 17th February 2012
iv. Seminar on Present Scenario of Engineers on 23rd March 2012.
v. Workshop on Future Embedded systems & Applications on 31st July 17, 2013.
vi. Workshop on Artificial Intelligence on 5th February 2013.
vii. Workshop on Digital Image Processing on 14th August 2013.
viii. Workshop on Embedded C on 8th April 2014.
ix. Seminar on Satellite and Nanoelectronics on 19th August 2014.
x. Workshop on Personality Development on 15th October 2014.
xi. Seminar on Networking and Programming on 14th November 2014.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The department annually organizes international/national conferences, seminars, symposiums and workshops for upgrading the technical knowledge and leadership quality of the students and faculty. Technical association of IEEE student branch and IEI student branch are functioning effectively in the department. The students are exposed to the latest trends in industries by industrial experts especially in the field of Communication. Soft skill training programmes are provided by eminent finishing school experts

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths
Experienced faculty, Creative thinking, Commitment, Strong Communication, Strong interest among the students in studies

Weaknesses
Meeting ALL needs of each student type, Lack of Transparent Data, Parent Involvement, Can vs. can't more tension, Crime issues/poverty

Opportunities
ISRO, DRDO, BSNL, Software industries, Mobile core industries

Challenges

Career Programs, Social Issues, addiction, Language Barrier, Economic Disparity

52. Future plans of the department:

- Establishing well equipped research laboratories
- MOUs with various organizations
- Getting sponsored research projects
- Organizing conferences/workshops/seminars annually

Department Evaluative Report

Department of Electrical and Electronics Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Electrical and Electronics Engineering
Evaluative Report

1. **Name of the Department :** Electrical and Electronics Engineering

2. **Year of establishment** : 1994

3. **Is the Department part of a School/Faculty of the university :**
   Yes,Faculty of Electrical and Electronics Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   UG - B.E. Electrical and Electronics Engineering
   PG - M.E. Applied Electronics
   Ph.D

5. **Interdisciplinary programmes and departments involved :**

S.No.	Interdisciplinary courses offered	Names of the Departments involved
1.	Engineering Mathematics and AppliedMathematics for all UG &PGProgrammes	Department of Mathematics
2.	Fluid mechanics and machinery	Department of Mechanical Engineering
3.	Data Structures and Algorithms	Department of Computer Science Engineering
4.	Data Structures and Algorithms lab	Department of Computer Science Engineering
5.	Career Skills, Public Speaking, Presentation skills	Department of English
6.	Applied Thermodynamics	Department of Mechanical Engineering
7.	Microprocessor & Microcontroller	Department of Computer Science Engineering

6. **Courses in collaboration with other universities, industries, foreign institutions, etc :**

Universities/Industries/Foreign Institutions	Courses
Institution of Engineers	Associate Membership of Institution of Engineers (AMIE)

7. **Details of programmes discontinued, if any, with reasons :**
   Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester-wise choice based credit system

9. Participation of the department in the courses offered by other departments :

The department offers the courses for its students. It also engages many courses for the students in other departments. The subjects, departments and corresponding semesters are as follows:

Regulation 2009

Sl.No.	Subject	Subject Code	Department	Semester
1	Basic Electrical & Electronics Engineering	EE225	Marine Engineering	First
2	Basic Electrical Engineering	EE101	All departments except marine engineering	Second
3.	Electrical Engineering	EE211	Electronics & Communication Engineering	Third
4.	Electric Circuit Analysis	EE201		
5.	Electronic Measurement & Instrumentation	EC218		
6.	Electrical Machines-I	EE202	Electronics & Instrumentation Engineering	Third
7.	Electrical Drives and Controls	EE2A9	Mechanical Engineering	Third
8.	Electrical Machines-I	MR214	Marine Engineering	Third
9.	Electrical Drives and Controls	EE2A9	Automobile Engineering	Fourth
10.	Bio -Control Systems	EE222	Bio Medical Engineering	Fourth
11.	Electrical Engineering& Control Systems	EE219	Computer Science Engineering	Fourth
12.	Electromagnetic Theory	EE206	Electronics & Communication Engineering	Fourth
13.	Electrical Machines-II	MR219	Marine Engineering	Fourth
14.	Power Electronics	EE207	Electronics &	Fifth

			Instrumentation Engineering	
15.	Control Systems	EE205	Electronics & Instrumentation Engineering	Fifth
16.	Control Engineering	EE2B5	Aeronautical Engineering	Fifth
17.	Control Engineering	EE2B5	Aerospace Engineering	Fifth

There are also many laboratories conducted by the department for the students of other department. They are as follows:

Sl.No.	Subject	Subject Code	Department	Semester
1	Basic Electrical & Electronics Laboratory	EE282	Marine Engineering	First
2	Basic Electrical Engineering	EE171	All departments except marine engineering	Second
3	Electrical Engineering Laboratory	EE280	Electronics and Communication Engineering	Third
4	Electrical Machines Laboratory – I	EE271	Electronics and Instrumentation Engineering	
5	Electrical, Electronics and Microprocessor Laboratory	EE278	Mechanical Engineering	Third
			Automobile Engineering	Fourth
6.	Automotive Electrical and Electronics Lab	AM275	Automobile Engineering	Fifth
6	Electrical Machines Laboratory	MR282	Marine Engineering	Sixth

Regulation 2013

Sl. No.	Subject	Subject Code	Department	Semester
1	Basic Electrical & Electronics Engineering	EE225	Marine Engineering	First
2	Basic Engineering-I	BE1101	All departments except marine engineering	Second
3.	Electrical	EE1214	Electronics &	Third

	Engineering		Instrumentation Engineering	
4.	Electrical Engineering and Control	EE1213	Mechanical Engineering	Third
5.	Electrical Engineering and Control	EE1213	Automobile Engineering	Third
6.	Electrical Machines-I	MR214	Marine Engineering	Third
7.	Electrical Engineering& Control Systems	EE1215	Computer Science Engineering	Fourth
8.	Electrical Machines-II	MR219	Marine Engineering	Fourth
9.	Power Electronics	EE1207	Electronics & Instrumentation Engineering	Fifth
10.	Control Systems	EE1205	Electronics & Instrumentation Engineering	Fifth
11.	Control Engineering	EE12B1	Aeronautical Engineering	Fifth
12.	Control Engineering	EE12B1	Aerospace Engineering	Fifth
13.	Electrical Engineering for Aircraft Maintenanace	EE1217	Aircraft Maintenance Engineering	Fifth

There are also many laboratories conducted by the department for the students of other department. They are as follows:

Sl. No.	Subject	Subject Code	Department	Semester
1	Basic Electrical & Electronics Laboratory	EE282	Marine Engineering	First
2	Basic Engineering Lab-I	BE1101	All departments except marine engineering	Second
3	Electrical Engineering Lab	EE1277	Electronics and Instrumentation Engineering	Third
4	Electrical, Engineering & Control Lab	EE1276	Mechanical Engineering	Third
			Automobile Engineering	Third
5	Electrical	MR282	Marine Engineering	Sixth

	Machines Laboratory			
6	Electrical Lab for Aircraft Maintenance	EE1278	Aircraft Maintenance Engineering	Fifth

10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	2	2
Associate Professors	2	2	2
Asst. Professors	7	7	7
Others (Research Scholars)	3	3	3

11. Faculty profile with name, qualification, designation, area of Specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience		No. of Ph.D./M.Phil. students guided for the last 4 years
				Years	Months	
Dr. L. Padma Suresh	M.E., Ph.D.(EE), Ph.D. (CS)	Prof & HOD(Director, Admissions)	Process control & Instrumentation	14	5	8/7
Dr. I. Jacob Ragland	M.E., Ph.D	Professor	Power Systems	13	1	12/5
Ms. F. Shamila	B.Sc(Engg), M.Sc(Engg)	Associate Professor	Power systems	24	9	0/2
Dr. D. M. Mary Synthia Regis Prabha	B.E., M.Tech, Ph.D	Associate Professor	Power Electronics &Drives	12	11	5/2
Mr. J. Arul Linsely	M.E.	Assistant Professor	Applied Electronics	16	4	0/5
Dr. H. Vennila	M.E., Ph.D.	Assistant Professor	Power systems	13		2/3
Dr. M. P. Flower Queen	M.E., Ph.D.	Assistant Professor	Applied Electronics	13	9	1/8
Mr. S.	B.E., M.	Assistant	Power systems	11	9	0/1

Name	Qualification	Designation	Specialization	No. of Years of Experience		No. of Ph.D./M.Phil. students guided for the last 4 years
				Years	Months	
Ben John Stephen	Tech.	Professor				
Ms. S. Anitha Janet Mary	M.E.	Assistant Professor	Process control & Instrumentation	12	2	0/3
Mr. Tibbie Pon Symon	M.E.	Assistant Professor	Power Electronics	8		0/2
Ms. V. S. Bindhu	M.E.	Assistant Professor	Power Electronics &Drives	6	11	0/3

List of Staff Members associated with Mechanical Department

Name	Qualification	Designation	Specialization	No. of years		No. of Ph.D/M.Phil students guided for the last 4 years
				Years	Months	
Dr. P. Sujatha Therese	M.E.	Associate Professor	Process control & Instrumentation	13	5	1/2
Dr. X. Felix Joseph	B.E., M.Tech, Ph.D	Associate Professor	Applied Electronics	14	2	7/5
Mr. K. Muthuvel	M.E.	Assistant Professor	Electronics & Control	9	1	0/3

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Dr. K. Gomathi, Retired Joint Director of Technical Education, Government of Kerala.

13. Percentage of classes taken by temporary faculty – programme-wise information: No temporary faculty.

14. Programme-wise Student Teacher Ratio :

B.E – 15: 1
M.E – 12: 1

15. Number of academic support staff (technical) and administrative

staff: sanctioned, filled and actual :

	Sanctioned	Filled	Actual
Academic support staff (technical)	**5**	**5**	**5**
Administrative staff	-	-	--

16. Research thrust areas as recognized by major funding agencies

i. Power electronics
ii. Power systems
iii. FACTS
iv. Robotics
v. Electrical machines
vi. Drives and Control
vii. Embedded Systems

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Sl. No	Name of the PI	Title of the Project	Duration	Funding Agency	Amount Rs.	Status
1.	Dr.X.Felix Joseph	A Novel Method for Conservation of Energy in Electrical Energy Distribution Sector.	3 years	AICTE	6,62,000	Applied
2.	Dr.X.Felix Joseph	Development of a New Novel Embedded System for Blind Source Separation &Noise Cancellation	3 years	AICTE	8,00,000	Applied
3.	Dr.P.SujathaTherase	A novel temperature control using Fuzzy tuned PI controller	3 years	AICTE	7,00,000	Applied
4.	Dr.L.Padmasuresh	MODROBS	3 years	AICTE	12,00,000	Applied
5.	Dr.L.Padmasuresh	FPGA based intelligent control of AC motors	4 years	DST	20,00,000	Applied

Sl. No	Name of the PI	Title of the Project	Duration	Funding Agency	Amount Rs.	Status
6.	Dr.I Jacob Raglend	Power system	4 years	DST	20,00,000	Applied

18. Inter-institutional collaborative projects and associated grants received a)National collaboration b) International collaboration :

Nil

18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

S.No	Title of the Project	Principal-Investigator	Funding Agency	Project Cost (Rs)	Duration
1.	Entrepreneurship Development Cell Scheme	Dr.S.JosephJawahar	AICTE	16,00,000	2008-2011
2.	Implementation of Soft Switching on DC-DC Converter	Dr.S.JosephJawahar	AICTE	4,50,000	2008-2010
3.	Modernization of Electronics System Design Lab	Dr.S.JosephJawahar	AICTE	10,50,000	2009 (10 months)
4.	Industry Institute Partnership Cell	Dr.S.JosephJawahar	AICTE	10,00,000	2009-2012

20. Research facility / centre with

- **state recognition**
- **national recognition**
- **international recognition**

- National recognition
- Our department has been the recognized research centre of Anna University, PRIST University and ManonmaniamSundaranar University.

21. Special research laboratories sponsored by / created by industry or corporate bodies

Research laboratory is created in collaboration with VI micro systems and Power Research & Development Consultants. This lab is equipped with

- IPM Based Power Module (3 HP)
- Model:PECI6DSMO-1
- LPC 2378 “OEM” Development Board
- CAN Application Development
- IAR Embedded Work Bench for Arm-BL-Network (Five user)

- LPC 2378 Development Board
- LPC 2648 Development Board for Porting uclinux
- ATMEL ARM 9 Development Board
- Linux BSP Support for ARM9, 1 User License
- GPS/GSM Development Board
- Embedded Work Server Development Kit
- IAR Embedded Workbench for Arm (5 user License)
- J Link Debugger for ARM
- uC/Probe Real Time Monitoring Tool (1 user License) uC/OS-II, The Real Time Kernal
- TMS 320F 4071 Based DSPcontroller
- TMS 320F 42074 DSP Code Composer Studio IDE
- Dual Spartan 3 Controller with supporting Software
- Universal Programmer (SUPERPRO Z)
- DSO 100 MHz Multisignal Oscilloscope with logic analyzer
- AICTE has funded an amount of Rs. 10,50,000/- for modernizing the Electronic System Design Lab and that lab has been modernized using the fund in 2009.

22. Publications:

∗ **Number of papers published in peer reviewed journals (national / international)**

56 papers in international journals

List of Journal Publications by Faculty members-2009

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Vol	Issue No.	Page. No.	P.P(Year)	Impact factor/ SNIP/SJR/H-index
	Dr. L. Padma Suresh	Digital Simulation of Multi Resonant Forward Converter Using Simulation	International Journal of Applied Engineering Research	1	1	35-40	Mar2009	H-index=4
	Dr. L. Padma Suresh	Implementation of Multi-resonant Forward Converter using Embedded Controller	International Journal of Electrical Engineering System	1	1	125-133	Jan 2009	H-index=4
	Dr. I. Jacob Raglend	Security Constrained UCP with Operational	International Journal of Recent Trends in	1	3	106-114	June, 2009	

		and Power Flow Constraints	Engineering, (Electrical &Electronics)					
	Dr. I. Jacob Raglend	Impact of Reactive Power in Power Evacuation from Wind Turbines	Journal of Electromagnetic Analysis and Application	1	1	15-23	2009	
	Dr. I. Jacob Raglend	Security and Emission Constrained Unit Commitment Problem with Peak Load Variations	Emerging Journal of Engineering Science and Technology	2	1	145-152	2009	
	Dr. I. Jacob Raglend	Profit based Unit Commitment Problem with Fuel and Emission Constraints using LR-EP Approach	Emerging Journal of Engineering Science and Technology	2	1	77-85	2009	
	Dr. I. Jacob Raglend	Security Constrained Unit Commitment Problem with Operational, Power Flow and Environmental Constraints	WSEAS Transactions on Power Systems	4	2	53-66	Feb,2009	
	Dr. I. Jacob Raglend	Dynamic Compensation Requirement Analysis for an Indian Utility	Journal of Engineering and Applied Sciences	4	2	19-23	April 2009	

List of Journal Publications by Faculty members-2010

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Vol	Issue No.	Page No.	P.P(Year)	Impact factor/ SNIP/SJR/H-index
1.	Dr. I. Jacob Raglend	Comparison of AI Techniques to solve Combined Economic Emission Dispatch Problem with Line Flow Constraints	International Journal of Electrical Power and Energy Systems	1	2	75-83	2010	
2.	Dr. I. Jacob Raglend	Load Flow Solution in Distribution Systems using Modified Forward Substitution Method	International Journal of Computer Science and Network Security	10	2	92-96	2010	
3.	Dr. I. Jacob Raglend	Solution to profit based unit commitment problem using particle swarm optimization	International Journal of Applied Soft Computing	10	1	1247 - 1256	2010	
4.	Dr. I. Jacob Raglend	Security Constrained UCP with operational and power flow constraints	ACEEE International Journal on Electrical and Power Engineering	1	1	12-20	2010	
5.	Dr. I. Jacob	Recent Trends in	International Journal of	1	1	39-44	2010	

	Raglend	Power System Communication- A review	Electrical Engineering and Electrical Systems					
6.	Dr. I. Jacob Raglend	Design and Simulation of Phase Locked Loop Controller based Three Phase Unified Power Quality Conditions for non-linear and voltage sensitive loads	International Journal of Applied Engineering Research	1	2	234-243	2010	
7.	Dr. I. Jacob Raglend	Power Quality Improvement using Series Active Filter for Matrix Converter Controlled load	International Journal of Signal System Control and Engineering Application	3	2	28-33	2010	
8.	Dr. I. Jacob Raglend	Power Quality Improvement for matrix converter using shunt active filter	International Journal of Computer Applications	11	2	31-37	2010	
9.	Dr. I. Jacob Raglend	Intelligent Controller based Shunt Active Filter for Power Quality Improvem	International Journal of Electrical and Power Engineering	4	2	209-217	2010	

		ent of Matrix Converter						
10.	Mr. X. Felix Joseph	Design and simulation of a soft switching scheme for dc-dc Boost Converter with PI controller	International Journal of Engineering, CSC press	4	4	285-295	Nov. 2010	
11.	Ms. H. Vennila	Application of SA for solving OPF problems	International Journal for Logistics and Supply Chain Management.	1	1	8-14	2010	

List of Journal Publications by Faculty members-2011

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Vol	Issue No	Page. No.	P.P (Year)	Impact factor/ SNIP/SJR /H-index
1.	**Dr. L. Padma Suresh**	Investigation on dermoscopic image segmentation using fuzzy clustering technique	International journal of advanced research in computer science	2	2	1-7	Mar 2011	H index = 4
2.	**Dr. L. Padma Suresh**	Image Steganography using mod-4 embedding algorithm based on image contract	International journal of current research	3	6	134 138	2011	H index = 4
3.	**Dr. L. Padma Suresh**	Dermoscopic Image	American Journal of applied	11		115	2011	H index = 4

		segmentation using Machine learning algorithm	sciences, Science Publications			116		
4.	**Dr. I. Jacob Raglend**	Matrix Converter Power Quality Issues Compensation using unified power quality conditions	Journal of Engineering and Applied Sciences	6	1	96 – 103	2011	
5.	**Dr. I. Jacob Raglend**	Wind power-Past, Present and Future-World and Indian Scenario.	Global Journal of Computer Application and Technology	1	1	77-	2011	
6.	**Dr. I. Jacob Raglend**	Matrix Converter Power Quality Issue Compensation Using Adaptive PLL based Controller in Unified Power Quality Conditioner	International Journal of Electrical and Power Engineering,	5	2	84-	2011	
7.	**Dr. I. Jacob Raglend**	Matrix Converter is an Efficient Frequency	Journal of Engineering and Applied Sciences	6	5	289 294	2011.	

		Regulator						
8.	**Dr. I. Jacob Raglend**	Efficient Utility Frequency Regulator Using Matrix Converter for Micro Grid	Trends in Electrical and Computer Engineering	1	1	15-	2011	
9.	**Dr. I. Jacob Raglend**	Power Quality Improvement For Matrix Converter Using Unified Power Quality Conditioner	Transactions of the Institute of Measurement and Control, **sage publication**				2011	H index = 6
10.	**Dr. I. Jacob Raglend**	Performance Analysis of Block Artifact Reduction Scheme using Pseudo Random Noise Mask Filtering	European Journal of Scientific Research	66	1	120 129	Dec. 2011	H index = 6
11.	**Dr. I. Jacob Raglend**	A Novel Design of Dual Rotor Induction Generator for Wind Power Applications	European Journal of Scientific Research	66	1	130 142	Dec. 2011	H index = 6
12.	**Dr. I. Jacob Raglend**	Universal Power Line Manager	Transactions of the Institute of Measurement and Control,	4	2	34-	Aug 23-2011	H index = 6

		for Wind Turbine Generator connected with micro Grid	**sage publication**					
13.	**Dr. I. Jacob Raglend**	A Comparison of Transmission Network Cost Allocation Methodologies for a Standard Test System	European Journal of Scientific Research	61	1	68-	2011	
14.	**Dr. D. M. Mary Synthia Regis Prabha**	Design and analysis of PID based Sliding Mode Voltage Controller For Buck Converter	International Journal on Electronics and Electrical Engineering	14	1	42-	2011	
15.	**Dr. D. M. Mary Synthia Regis Prabha**	Design and Analysis of PWM based Variable Structure Voltage Controller for a dc-dc converter	International Journal of Power Systems and Power Electronics, UPA International Journals	4	1	45-	2011	

16.	**Dr. X. Felix Joseph**	A novel approach for comparative evaluation of soft switched DC-DC Boost converter	International journal for Power System and Power Electronics, UPA journals	4	1	1-8	Oct. 2011	
17.	**Ms. H. Vennila**	Economic Emission Dispatch of thermal generating units using GA technique	International Journal of Energy & Network Management	4	4	9-	2011	
18.	**Ms. H. Vennila**	Application of GA for solving OPF problems.	International Journal for Informational system & Supply Chain Management.				2011	
19.	**Ms. H. Vennila**	Application of OA & SA for solving OPF problems.	International Journal for Logistics, Economics & Globalization				2011	

List of Journal Publications by Faculty members-2012

S. No.	**Name of Authors**	**Title of Paper**	**Name of Journal/Conference Proceedings**	**Volume**	**Issue No.**	**Page No.**	**P.P (Year)**	**Impact factor/ SNIP/SJR/H-index**
1.	Dr. L.Padma Suresh	Real Time Implementation of hydroelectric power plant using PLC and SCADA	International Journal of Engineering research and Applications (IJERA)	2	**3**	pp.899-902	May-June 2012	H index = 4
2.	Dr.	Field	American	9	**11**	1802	**201**	H index

	L.Padma Suresh	programmable Gate Array based RF-THI Pulse Width Modulation Control for three phase Inverter using Matlab Model simcosimulation	Journal of applied sciences			-181	**2**	= 4
3.	Dr. L.Padma Suresh	Implementation of a FPGA based Hybrid RF-THI PWM Control for an Inverter – Fed Induction Motor	International Review on Modelling and Simulation	5	**6**	2420 - 2425	**2012**	H index = 4
4.	Dr. L.Padma Suresh	A Novel NSCT based illumination Invariant extraction with optimized edge detection technique for face recognition technique for face recognition	International Journal of Computer applications	**70**	**3**	7-10	**2012**	H index = 4
5.	Dr. I. Jacob Raglend	Genetic Algorithm-Neuro-Fuzzy Controller (GANFC)	European Journal of Scientific Research	78	2	184-197	June 2012	

		Based UPQC Controller for Compensating PQ Problem						
6.	Dr. I. Jacob Raglend	A Novel Method for Reduction of Blocking Artifact Using Machine Learning Metric Approach	Journal of Applied Sciences Research	8	5	2429 - 2438	2012	H index = 6
7.	Dr. I. Jacob Raglend	Universal Power Line Manager for Wind Turbine Generator Connected with a Microgrid	Electric Power Components and Systems	40	1	1390 – 1404	2012	H index = 6
8.	Dr. I. Jacob Raglend	Solution of Unit Commitment Problem Using Shuffled Frog Leaping Algorithm	IOSR Journal of Electrical and Electronics Engineering (IOSRJEEE)	1	4	9-26	July - Aug. 2012	H index = 6
9.	Ms. P. Sujatha Theree	A unique novel approach for design and analysis of a robust decentralized self tuning fuzzy PI controller for a multi-input	American Journal of Applied Sciences		3	331-336	2012	

		multi-output process						
10.	Ms. P. SujathaTheree	Simplified decoupled self tuning fuzzy PI controller for eliminating interaction in HVAC system	European Journal of Scientific Research	67	2	180-193	2012	
11.	Ms. P. SujathaTheree	Application of fuzzy and self tuning fuzzy controllers for HVAC system and determination of an unified analytical method for selecting the scaling factor in fuzzy PI controller	European Journal of Scientific Research	Accepted			2012	
12.	Dr. D. M. Mary Synthia Regis Prabha	Design and Robustness Analysis of a PID based Sliding Mode Controller for a dc-dc converter	Research Journal of Applied Sciences, Engineering and Technology, Maxwell Scientific Organisation	4	4	342-349	Feb. 2012	
13.	Dr. X. Felix Joseph	Design and Simulation of a self-switched dc-dc	Journal of Applied Sciences	9	3	440-445	Jan. 2012	H index = 2

		Boost converter for switched reluctance motor						
14.	Dr. X. Felix Joseph	Design and Simulation of a proportional integral controlled front end and power converter for switched reluctance motor	World Applied Sciences Journal	16	6	835-841	2012	H index = 2
15.	Ms. H. Vennila	Particle Swarm Optimization technique for solving Economic Emission Dispatch Problems	Elsevier journal of Proceediaengineeringg	38		2009 - 2021	2012	
16.	Ms. M. P. Flower Queen	An effective torque minimization and precise position tracking control of robot manipulator using genetic manipulator	European journal of scientific research	72	2	263-272	2012	

List of Journal Publications by Faculty members-2013

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Volume	Issue No.	Page. No.	P.P (Year)	Impact factor/ SNIP/SJR/H-index
1.	Dr.	Compariso	Life Science			201	**201**	H-index

	L.Padma Suresh	n of PWM control techniques for a 3 ph Inverter using field programmable Gate array	Journal			1-2018	**3**	= 4
2.	Dr. L.Padma Suresh	A Novel Unified Power Quality Conditioning system for power quality Improvement and Bi directional Power Flow control for windmill	Global Journal of Researches in Engineering Electrical and Electronics Engineering	13	7	41-47	2013	H-index = 4
3.	Dr. L.Padma Suresh	A Novel NSCT based illumionation Invariant extraction with optimized edge detection technique for face recognition technique for face recognition	International Journal of Computer applications	70	3	7-10	2013	H-index = 4
4.	Dr. I. Jacob Raglend	Effective utilization of unified power quality conditioner for interconnecting PV modules with grid using power	*International Journal of Electrical Power and Energy Systems*	48	1	131-138	2013	H-index = 4

		angle control method						
5.	Dr. I. Jacob Raglend	A Review On Market Power In Deregulated Electricity Market	*International Journal of Electrical Power and Energy Systems*	48	1	139-147	2013	
6.	Dr. I. Jacob Raglend	Performance Analysis of Image Quality Assessment Using Deblocking filter for the Reduction of Block Artifacts	WULFENIA Journal	20	2	25-33	2013	H index = 6
7.	Dr. I. Jacob Raglend	Performance And Analysis Of Compression Artifacts Reduction For MPEQ-2 Moving Pictures Using TV Regularization Method	Life science journal	10	2	102-110	2013	H index = 6
8.	Dr. I. Jacob Raglend	Performance Analysis Of H.264/AVC Loseless Video Coding using Hadamard Transform Image	International Journal of Computer Science & Engineering Technology	4	3	260-267	2013	H index = 6
9.	Dr. I. Jacob Raglend	Power Quality Improvement and Photo Voltaic	Australian Journal of Electrical and Electronics Engineering	10	2	183-190	2013	H index = 6

		Module Interconnection using Unified Power Quality Conditioner						
10.	Dr. I. Jacob Raglend	Impact of FACTS devices on exercising market power in deregulated electricity market	Frontiers in Energy	In press		pp. 1-8	2013	H index = 6
11.	Dr. H. Vennila	A solution to the combined economic and emission dispatch using hybrid HB-SA algorithm on large-scale power system	International Review on Modeling and Simulations	6	4	1256-1262	August 2013	
12.	Dr. M. P. Flower Queen	Repetitive Learning Controller for six degree of freedom Robot manipulator with disturbances	International Review of Automatic Control	6	3		Aug. 2013	

List of Journal Publications by Faculty members-2014

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Volume	Issue No.	Page. No.	P.P (Year)	Impact factor/ SNIP/SJR/H-index
1.	L.Padma Suresh	Matrix Converter based	Research journal of applied			174-180	May 2014	H-index= 4

		unified power Quality Conditioner for Power Quality Improvement in utility	Sciences,Engineering and Technology					
2.	L.Padma Suresh	Design of PI Controller for Buck-Boost Converter using Bacteria Foraging Optimization algorithm	International Journal of applied engineering Research	9	24	8065-8069	2014	H-index=4
3.	F. Shamila	Outlet Water Pressure Control In Electrical Pumps-An Improved Technique	NICEJET	9	1	63-70	June 2014	
4.	Jacob Raglend, I	Performance analysis of hybrid lossless compression for MRI brain images	Asian Journal of Information Technology	13	5	260-266	2014	
5.	Jacob Raglend, I	A reconfigurable architecture of turbo	American Journal of Applied Sciences	11	6	883-887	2014	

		decoder for MIMO-high speed downlink packet access						
6.	Jacob Raglend, I	Performance analysis of image security based on encrypted hybrid compression	American Journal of Applied Sciences	11	7	1128-1134	2014	
7.	Jacob Raglend, I	Computer aided segmentation of brain tissues using soft computing techniques	American Journal of Applied Sciences	11	6	1016-1024	2014	
8.	Jacob Raglend, I	Multi Objective Combined Emission Constrained Unit Commitment Problem Using Improved Shuffled Frog Leaping	WSEAS Transaction on Systems	13		560-574	2014	

		Algorithm						
9.	Jacob Raglend, I	Solution of Unit Commitment Problem Using Improved Shuffled Frog Leaping Algorithm	Journal of Electrical Engineering	14	3	31-44	2014	

List of Journal Publications by Faculty members-2015

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Volume	Issue No.	Page. No.	P.P (Year)	Impact factor/ SNIP/SJR/H-index
1.	L.Padma Suresh	Modified Sparse Classifier in Land Cover Classification Multispectral Satellite Images	International Journal of Applied Engineering Research	9	26	9467-9472	2015	H-index=4
2.	L.Padma Suresh	Comparative Evaluation of intelligent Controller for a Buck-Boost Converter	International Journal of Soft Computing			143-150	2015	H-index=4
3.	L.Padma Suresh	Evaluation of ARM processor.based bionic Intelligent	Research journal of Applied Sciences, Engineering and Technology			1-7	2015	H-index=4

		Controller for a Buck-Boost Converter						
4.	L.Padma Suresh	Cuckoo search based threshold optimization for intial seed selection in seeded region growing	International journal of Computational Engineering research	3	8	39-42	2015	H-index=4
5.	F. Shamila	Application of Improved Shuffled Frog Leaping Algorithm for the solution of Unit Commitment Problem including Valve Point Loading Effect	International Journal of Applied Engineering Research	Accepted			2015	
6.	J. Arul Linsely	Nano silver based low profile monopole antenna	International journal of applied engineering research	Accepted			2015	
7.	P.Sujatha Therese	Growth, Structural, Optical, Electrical and SHG studies of N-N' allylthiourea	International Journal of Engineering Research and Applications	5	4	07-14	April 2015	

		doped KDP single crystals						
8.	P.Sujatha Therese	Design of Fuzzy PI Controller for room Temperature control loop of HVAC system by using an analytical approach for selecting the scaling factors.	International Journal of Applied Engineering Research	10	3	9581-9600	2015	
9.	P.Sujatha Therese	Application of self tuning fuzzy PI Controllers for disc drive read system	International journal of computational Intelligence Research	11	1	11-18	2015	
10.	Jacob Raglend	Cuckoo search (CS)-NFC-based UPQC for compensating voltage sag of nonlinear load	Journal of Experimental and Theoretical Artificial Intelligence	Article in Press			2015	

- **Monographs:** Nil

∗ **Chapters in Books**

Sl. No.	Name of the faculty	Chapter Title &Title of the Book	Publisher	Year	ISBN
1.	Sathish Kumar K, Jacob Raglend I, Kothari D.P and PrabhakarKarthikeyan	Book title: **Power Quality,** Chapter **Title: Intelligent Techniques and Evolutionary Algorithms for Power Quality Enhancement in Electric Distribution System,** pp. 345 – 364	Intech Open Access Publishers	2011	ISBN: 978-953-307-970- 7
2	Dr. I.Jacob Raglend	Application of SWM as classifier in Estimating market power under deregulated electricity market	Springer	2014	
3.	Dr. L. Padma Suresh	Implementation of ARM processor based online learning Neural Network Controller for Buck –Boost converter	Springer	2014	
4.	Dr.L. Padmasuresh Mr.K.Muthuvel	Classification of ECG signal using Hybrid Feature Extraction and Neural Network classifier	Springer	2014	
5	Dr. L. Padma Suresh	An analysis of varios edge detection techniques on Illuminent various images.	Springer	2014	
6	Dr. L. Padma Suresh	Investigation and control of Principal axe of aircraft using robust method	Springer	2014	
7	Dr. L. Padma Suresh	Cuckoo search based color image segmentation using seeded region growing	Springer	2014	

8	Dr. L. Padma Suresh	Soft witched single inputs two outpts DC-Dc converter for photovoltaic applications	Springer	2015	ISBN 978-81-322-2671-0
9	Dr. L. Padma Suresh K.Muthuvel	Classification of ECG signals using hybrid feature extraction and classifier with hybrid ABC-GA optimisation	Springer	2015	ISBN 978-81-322674-1
10	Dr. L. Padma Suresh	EA Based Optimisation of Hybrid T-slot patch antennas	Springer	2015	ISBN 978-81-322-2671-0
11	Dr. L. Padma Suresh K.Muthuvel	An ann based intelligent system with ABC-GA optimization for the classification of ECG signals	Springer	2015	ISBN 978-81-322-2671-0 ISBN 978-81-322674-1
12	Dr.I. Jacob Raglend	Multi-objective Congestion management in a Deregulated power system-A Review	Springer	2015	ISBN 978-81-322-2671-0 ISBN 978-81-322674-1
13	Dr.I.Jacob Raglend, Prof.V.A. TibbiePon Symon	Uncertainaity aware of Scheduling Unused power in Grids toreduce the Laws in distribution systems-A Review	Springer	2015	ISBN 978-81-322-2671-0
14	T.Ben John stephan	Performance evaluation of Control Strategy on Buck- Boost converter Fed DC motor using Artificial Bee Colony Algorithm	Springer	2015	ISBN 978-81-322-2671-0
15	J.ArulLinsely	Nano Silver based Low Profile folded dipole paper antenna for high frequency	Springer	2015	ISBN 978-81-322674-1

		application			
16	Dr. L. Padma Suresh	Comparative assessment of the performance of LQR and SMC methodologies in the control of longitudinal axis of aircraft	Springer	2015	ISBN 978-81-322267 4-1
17	Dr.X. Felix Joseph	Mathematical modeling of ICA algorithmforFetalEC G Extraction	Springer	2015	ISBN 978-81-322267 4-1

Edited Books

Sl. No.	Name of the faculty	Title	Publisher	Year	ISBN
1.	Dr. L. Padma Suresh	Power Electronics and Renewable Energy Systems, Proceedings of ICPERES- 2014, Part I	Springer	2014	ISBN: 978-81-322-2118-0
2.	Dr. L. Padma Suresh	Power Electronics and Renewable Energy Systems, Proceedings of ICPERES- 2014, Part II	Springer	2014	ISBN: 978-81-322-2118-0
3.	Dr. L. Padma Suresh	Artificial Intelligence and Evolutionary Algorithms in Engineering Systems, Proceeding of ICAEES 2014, Volume 325	Springer	2014	ISBN: 978-81-322-2134-0
4.	Dr. L. Padma Suresh	Advances in Intelligent Systems and Computing, Volume 324	Springer	2014	ISBN: 978-81-322-2118-0

Books with ISBN with details of publishers

Sl. No.	Name of the faculties	Title	Publisher	Year	ISBN
1.	TibbiePonSy mon	**Basic Electrical Engineering**	Anuradha Publications	2012	ISBN: 978-81-8472-202-4
2.	K. Muthuvel,	**Basic Electrical**	Anuradha	2014	ISBN:

	Dr. L. padma Suresh, Rajesh Rethnamony, K. BharathiKannan	**Engineering**	Publications		978-81-8472-202-4
3.	K. Muthuvel, K. Bharathi Kannan , Dr. L. Padma Suresh, V. S. Bindhu	**Basic Electrical Engineering**	Anuradha Publications	2015	ISBN: 978-93-84295-15-8

∗ **Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
More than 150 papers are listed in scopus database.

∗ **Citation Index – range / average**

S. No.	Name of Authors	Title of Paper	Conference Name	Venue and Date	Page	Citatic
1.	Dr. L. Padma Suresh	Investigation on dermoscopic image segmentation using fuzzy clustering techniques	National conference on Emerging Technologies in Electrical & Electronics System	Feb 26, 2011	33-38	3
2.	Dr. L. Padma Suresh	Efficient Compression of Encrypted Grayscale Images	4th National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies	March 18, 2011	7-11	2
3.	L. Padma Suresh	Image segmentation based on genetic algorithm for region growth and region merging	ICCEET 2012	2012		10
4.	L. Padma Suresh	Image Segmentation using seeded region growing	ICCEET-2012	2012		20
5.	L. Padma	Water storage and Distribution	IEEE International	2013		2

	Suresh	system for Pharmaceuticals using PLC and SCADA.	Conference on Circuits, Power and Computing Technologies , ICCPCT 2013			
6.	L. Padma Suresh	Simulation of Z-source inverter using maximum boost control PWM technique	ICCEET 2012	2013		7
7.	Dr. L. Padma Suresh	Digital Simulation of Multi Resonant Forward Converter Using Simulation	International Journal of Applied Engineering Research	2009	35-40	1
8.	Jacob Raglend, I	Constant frequency-unified power quality conditioner	2011 International Conference on Emerging Trends in Electrical and Computer Technology, ICETECT 2011	2011	1-8	3
9.	D. M. Mary Synthia Regis Prabha	An Optimum Setting of Controller for a dc-dc converter Using Bacterial Intelligence Technique	Innovative soft grid technologies-India (ISGT-India), IEEE 2011	2011	204-210	2

Impact factor details -Journal

S. No.	Name of Authors	Title of Paper	Name of Journal/Conference Proceedings	Vol	Issue No.	Page. No.	P.P(Year)	Citation
1.	Dr. L. Padma Suresh	Digital Simulation of Multi Resonant Forward Converter Using Simulation	International Journal of Applied Engineering Research	1	1	35-40	March 2009	1
	Dr. L. Padma	Implementation of	International Journal of	1	1	125-133	Jan 2009	1

	Suresh	Multi-resonant Forward Converter using Embedded Controller	Electrical Engineering System					
	Dr. I. Jacob Raglend	Comparison of AI Techniques to solve Combined Economic Emission Dispatch Problem with Line Flow Constraints	International Journal of Electrical Power and Energy Systems	1	2	75-83	2010	21
	Dr. I. Jacob Raglend	Solution to profit based unit commitment problem using particle swarm optimization	International Journal of Applied Soft Computing	10	1	1247-1256	2010	21
	Dr. I. Jacob Raglend	Power Quality Improvement using Series Active Filter for Matrix Converter Controlled load	International Journal of Signal System Control and Engineering Application	3	2	28-33	2010	1
	Dr. I. Jacob Raglend	Universal Power Line Manager for Wind Turbine Generator connected with micro Grid	Transactions of the Institute of Measurement and Control, sage publication	4	2	34-41	Aug 23-2011	2
	Dr. L. Padma Suresh	Investigation on dermoscopic image segmentatio	International journal of advanced research in computer	2	2	1-7	Mar 2011	2

		n using fuzzy clustering technique	science					
	Dr. L. Padma Suresh	Image Steganography using mod-4 embedding algorithm based on image contract	International journal of current research	3	6	134-138	2011	1
	Dr. L. Padma Suresh	Dermoscopic Image segmentation using Machine learning algorithm	American Journal of applied sciences, Science Publications	11		1159-1168	2011	2
	Dr. I. Jacob Raglend	Genetic Algorithm-Neuro-Fuzzy Controller (GANFC) Based UPQC Controller for Compensating PQ Problem	European Journal of Scientific Research	78	2	184-197	June 2012	1
	Dr. I. Jacob Raglend	Universal Power Line Manager for Wind Turbine Generator Connected with a Microgrid	Electric Power Components and Systems	40	1	1390–1404	2012	3
	Dr. L.Padma Suresh	Comparison of PWM control techniques for a 3 ph Inverter using field programmable Gate array	Life Science Journal			2011-2018	**2013**	2
	Dr.	A Novel	International	70		7-10	2013	1

	L.Padma Suresh	NSCT based illumionation Invariant extraction with optimized edge detection technique for face recognition technique for face recognition	Journal of Computer applications		3			
	L.Padma Suresh	Matrix Converter based unified power Quality Conditioner for Power Quality Improvement in utility	Research journal of applied Sciences,Engineering and Technology			174-180	May 2014	1

- SNIP
  Range = 0.12 to 3.449
- **SJR**
  Range = 0.132 to 0.478
- **Impact Factor – range / average**
  Range = 0.073 to 2.247, Average = 0.817
- **h-index**
  The maximum h-index value is 6.

23. Details of patents and income generated:

Nil

24. Areas of consultancy and income generated:

Our department has generated an income of around 3 lakhs by selling trainer kits to various polytechnics in Tamilnadu.

S. No.	Name of the faculty member	Areas of consultancy	Income generated (in lakhs)
1.	Dr. l. Padma Suresh Dr. X. Felix Joseph	Technical consultant and installation of 120kW solar powered green cardiac cathetherization laboratory	3.5 lakhs

2.	Dr. l. Padma Suresh	Puthalam Chemicals Pvt. Limited, Puthalam post, Thengamputhur	0.1 lakhs
3.	Dr. l. Padma Suresh	Trainer kit to various polytechnics in Tamilnadu	3.1 lakhs

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

a. Dr. I. Jacob Raglend visited MARA University of Technology, Malaysia for delivering a Key-note address in the International Conference organized by them.
b. Dr. X. Felix Joseph visited ISRO, Bangalore along with the NIU-Satellite project team for visiting the laboratories related to solar and battery cell to our NIU satellite project.
c. Dr. X. Felix Joseph visited IIST,Valliamala Trivandrum to visit the AOCS laboratory related to NIUSAT project.
d. Dr. X. Felix Joseph visited IISC, Bangaloreto participate International workshop on small satellites .
e. Dr. X. Felix Joseph visited Data pattern, Chennai to visit the laboratories related to design ,development and manufacturing of Electronic boards.

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

Sl. No.	Name of the staff member	Committee
1.	Dr. L. Padma Suresh	Chief Editor of NICE-JET (NICE Journal of Emerging Technologies)
2.	Dr. L. Padma Suresh	Conference Chair of IEEE sponsored International Conference ICETES-2012
3.	Dr. L. Padma Suresh	Conference Chair of IEEE sponsored International Conference ICETES-2013
4.	Dr. L. Padma Suresh	Conference Chair of IEEE sponsored International Conference ICETES-2014
5.	Dr. L. Padma Suresh	Conference Chair of Springer Conference ICETES-2013
6.	Dr. L. Padma Suresh	Reviewer, IET, Journal of Image Processing
7.	Dr. L. Padma Suresh	Reviewer, Inderscience Publications, International Journal of Power and Energy Conservation
8.	F.Shamila	Co-ordinator NICE-JET Academic Council Member NISWA executive committee member
9.	M.P.Flower Queen	Academic Council Member

		Doctoral Committee Member
10.	H.Vennila	Academic Council Member Reviewer in International Publications Doctoral Committee member
11.	Dr. D.M. Mary Synthia Regis Prabha	Board of studies member of EEE Dept Board of Studies member of BME Dept. Doctoral committee member
12.	Dr. I Jacob Raglend	Invitation as Plenary Speaker at 2012 IEEE Control System Graduate Research Colloquium (ICSGRC 2012), at University Technology MARA, Malaysia.
13.	Dr. I Jacob Raglend	Workshop on Research Project Writing at Noorul Islam University on 21/08/2012.
14.	Dr. I Jacob Raglend	Technical Chair in the National level Technical symposium TECFEE 2K15 at CSI Institute of Technology on 20/02/2015.
15.	Dr. I Jacob Raglend	Chief guest address and technical chair in 15th National level students Technical symposium "SACOESIUM" on 12/02/2015.
16.	Dr. I Jacob Raglend	Technical session chair in IEEE International conference on Control Instrumentation Communication and Computational Technologies on 10th& 11th July 2014 at Noorul Islam University.
17.	Dr. I Jacob Raglend	Key note address in the National conference on Recent Trends in Engineering and Technology at Trinity College of Engineering on 23/08/2014.
18.	Dr. I Jacob Raglend	Technical session chair in 2011 International conference on Emerging Trends in Electrical and Computer Technology on 23rd& 24th March 2011 at St. Xaviers Catholic College of Engineering.
19.	Dr. I Jacob Raglend	Given a lecture for the AICTE sponsored SDP on "Applications of Soft Computing Techniques to Power Systems – Part 1" at Adhiparasakthi Engineering College, Chennai on 6/06/2011.
20.	Dr. I Jacob	Given a lecture for the AICTE

	Raglend	sponsored SDP on "Applications of Soft Computing Techniques to Power Systems – Part 2" at Adhiparasakthi Engineering College, Chennai on 7/06/2011.
21.	Dr. I Jacob Raglend	Technical chair for the International conference ETIEE 13 on 4/02/2013 at Maria College of Engineering and Technology, Attoor.
22.	Dr. I Jacob Raglend	Technical chair in the IEEE International Conference on Circuit, Power and Computing Technologies 2014 on 20th - 21st March 2014 at Noorul Islam Centre for Higher Education.
23.	Dr. I Jacob Raglend	Technical chair in the IEEE International Conference on Circuit, Power and Computing Technologies 2015 on 19h – 20th March 2015 at Noorul Islam Centre for Higher Education.
24.	Dr. I Jacob Raglend	Given a special technical address on "Power System Economics In Restructured Market" in the UGC Sponsored Two day National Conference on Congestion Management and Restructured Power Systems 0n 13/03/2011 at Annamalai University.
25.	Dr. I Jacob Raglend	Given a lecture for the AICTE sponsored SDP on "Soft Computing Techniques in Power Converter Design" at Arunachala College of Engineering for Women, Vellichanthai on 26/05/2010.
26.	Dr. I Jacob Raglend	Given the Chief Guest Inaugural address in the National Level Technical Symposium GENESIS'10 organized by Christian College of Engineering and Technology on 6/03/2010.
27.	Dr. I Jacob Raglend	Given the Chief Guest Inaugural address in the National Level Technical Symposium "THE MYSTICIA-2010" organized by Christian College of Engineering and Technology on 20/02/2010.
28.	Dr. I Jacob Raglend	Given a special address on Rajiv Gandhi National Renewable Energy Day at Priyadarshini Engineering College, Vaniyambadi, Vellore on 18th September 2008.

29.	Dr. I Jacob Raglend	Gave special address in the Energy Conservation Meet organized by TANGEDCO on18/12/2010 at Nagercoil
30.	Dr. I Jacob Raglend	Publication chair for the Proceedings of 2012 International Conference on Computing, Electronics and Electrical Technologies, IEEE Publishers, ISBN - 978-1-4673-0210-4, 2012.
31.	Dr. I Jacob Raglend	Publication chair for the Proceedings of 2013 International Conference on Circuits, Power and Computing Technologies, IEEE Publishers, ISBN - 978-1-4673-4920-8, 2013
32.	Dr. I Jacob Raglend	Publication chair for the Proceedings of 2014 International Conference on Circuits, Power and Computing Technologies, IEEE Publishers, ISBN - 978-1-4799-2395-3, 2014.
33.	Dr. I Jacob Raglend	Publication chair for the Proceedings of 2015 International Conference on Circuits, Power and Computing Technologies, IEEE Publishers, ISBN - 978-1-4799-7074-2, 2015.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculty members of this department are encouraged to attend orientation programmes, workshops and training programs at the end of each semester.The newly joined staff members are given induction training programmes to enrich their teaching - learning capability.

S.No	Name of the Staff	Conferences/Seminar / Summer School/ Winter School Attended	Venue	Date
1.	Dr L. Padma Suresh	AICTE Sponsored SDP on "Multi agents system for domain"	RMK Engineering College, Chennai	28th May 2011 to 7th June 2011
2.	Dr L. Padma Suresh	National Workshop on "Cyber security" organized by CSE department	RMK Engineering College, Chennai	19th& 20th January 2011
3.	Dr. I. Jacob Raglend	Training undergone in the Faculty Improvement Programme-2010	Department of Human Resource Management at Noorul Islam University	4/01/2010 to 13/01/2010 .

4.	Dr. I. Jacob Raglend	National Workshop on Power Communication, Quality and High Voltage Engineering	VIT University	12/03/2010 – 13/03/2010
5.	Ms F. Shamila	National level workshop on Engineering Graphical System Design using Labview.	Dept. of EIE, NIU, Kumaracoil, in association with Trident Techlabs, Chennai	5th to 7th January 2011
6.	Dr.P. Sujatha Therese	Two days workshop on Labview	Dept. of EIE, NIU	7th and 8th January 2011
7.	Dr. D. M. Mary Synthia Regis Prabha	DRDO sponsored National Level workshop on "Recent Trends in Intelligent System Security Design using Lab VIEW".	Dept. of EIE, at NIU	28th and 29th April 2011
8.	Dr. X. Felix Joseph	Faculty development Programme in Entrepreneurship	Sponsored by Entrepreneurship development Institute of India, Ahmedabad & National Centre for Innovation, Incubation and Entrepreneurship , Technopark, held at Technopark, Trivandrum	November 28th – December 9th, 2011
9.	Dr. H. Vennila	DRDO sponsored National Level workshop on "Recent Trends in Intelligent System Security Design using Lab VIEW".	Dept. of EIE, at NIU	28th and 29th April 2011
10.	Dr. M.P. Flower Queen	DRDO sponsored National Level workshop on "Recent Trends in Intelligent System Security Design using Lab VIEW".	Dept. of EIE, at NIU	28th and 29th April 2011
11.	Mr. S.	National level	Dept. of EIE,	5th to 7th

	Ben John Stephen	workshop on Engineering Graphical System Design using Labview.	NIU, Kumaracoil, in association with Trident Techlabs, Chennai	January 2011
12.	Mr. S. Ben John Stephen	Workshop on LaTeX	Organized by Mathematics Department of NICHE	25/10/2013 and 26/10/2013 .
13.	Ms. S. Anitha Janet Mary	National level workshop on Engineering Graphical System Design using Labview.	Dept. of EIE, NIU, Kumaracoil, in association with Trident Techlabs, Chennai	5^{th} to 7^{th} January 2011
14.	Mr. V.A. Tibbie Pon Symon	National level workshop on Engineering Graphical System Design using Labview	Dept. of EIE, NIU, Kumaracoil, in association with Trident Techlabs, Chennai	5^{th} to 7^{th} January 2011
15.	Mr. V.A. Tibbie Pon Symon	Workshop on LaTeX	Organized by Mathematics Department of NICHE	25/10/2013 and 26/10/2013
16.	Mr. K. Muthuvel	Three months course on Embedded Systems Technology at Chennai	Embedded Systems Institute, Chennai	
17.	Mr. K. Muthuvel	Two days workshop on Practical details of Electrical Power Systems	Tamilnadu Electricity Board.	
18.	Mr. K. Muthuvel	Matlab workshop on Biomedical Image Processing	Organized by Biomedical Engineering Department at NICHE	27/09/2013 and 28/09/2013
19.	Mr. R. Rajesh	Matlab workshop on Biomedical Image Processing	Organized by Biomedical Engineering Department at NICHE	27/09/2013 and 28/09/2013
20.	Mr. R. Rajesh	Workshop on LaTeX	Organized by Mathematics Department of	25/10/2013 and 26/10/2013

			NICHE	

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**

BE-EEE

Batch	Total students	% of in house projects	% outside university
2007-11	66	100	0
2008-12	66	100	0
2009-13	65	89	11
2010-14	34	85.3	14.7
2011-15	43	100	0

ME-applied electronics

Batch	Total students	% of in house projects	% outside university
2007-09	28	92.85	7.14
2008-10	22	100	0
2009-11	28	100	0
2010-12	23	100	0
2011-13	14	100	0
2012-14	6	100	0
2013-15	4	100	0

- **percentage of students doing projects in collaboration with other universities / industry / institute**

6% [2 out of 34] students of 2010-2014 EEE batch did their projects in Universiti MARA, Malaysia.

29. Awards / recognitions received at the national and international level by :Faculty/Doctoral / post doctoral fellows /Students :

Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any :

Year 2009 – 2010

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date

1	National Level Technical Symposium (GNISTERZ-2009)	6 October 2009
2	International Conference on "Emerging Trends in Engineering Technologies - 2010"	25 and 26 March 2010

Year 2010 – 2011

Sl. No	Seminars/Conferences/Workshops/Training Courses	Date
1	National Level Technical Symposium (PERCIUZ-2010)	1 October 2010
2	Two days Workshop for engineering aspirants	6 and 7 April 2011

Year 2011 – 2012

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date
1	Soft Training Program	29,30,31 July 2011 `
2	National Franchisee Program for electrical engineering students by TANGEDCO Madurai	9 to 11 June 2011
3	National Level Technical Symposium (AUDVOLTAIS-2011)	28 & 29 September 2011
4	National Seminar On Renewable energy and Energy Management Systems(DRDO sponsored programme, New Delhi)	10 & 11 November 2011
5	International Conference on "Computing, Electronics and Electrical Technologies - 2012"	21 and 22 March 2012

Year 2012 – 2013

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date
1	Soft Skills training by axious academy	15 and 16 October 2012
2	Aptitude Training	17 to 22 October 2012
3	National Level Technical Symposium (ILEKTRIMOS-2013)	5 & 6 March 2013
4	International Conference on "Circuit, Power and Computing Technologies - 2013"	21 and 22 March 2013

Year 2013 – 2014

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date
1	IEEE International Conference on "Circuit, Power and Computing Technologies - 2014"(ICCPCT 2014)	20 and 21 March 2014
2	Springer International Conference on "Artificial	22 and 23

	Intelligence and Evolutionary Algorithms in Engineering Systems- 2014"(ICAEES 2014)	April 2014

Year 2014 – 2015

Sl.No	Seminars/Conferences/Workshops/Training Courses	Date
1	IEEE International Conference on "Circuit, Power and Computing Technologies - 2015"(ICCPCT 2015)	19 and 20 March 2015
2	Springer International Conference on "Soft Computing Systems- 2015"(ICSCS 2015)	20 and 21 April 2015

31. Code of ethics for research followed by the departments :

The research scholars desirous of joining the Ph.Dprogramme should apply in the prescribed application form, though proper channel wherever applicable, before the due date as indicated in the notification issued from time to time.

The research guide should have Doctoral Degree in the relevant area of research in which he/she proposes to guide the scholar.

The Doctoral Committee of a research scholar shall meet within a month from the date of communication of his/her registration to prescribe the course work.

Each full time research scholar shall sign in the attendance register provided for the purpose on all working days.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)		Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
UG-BE-EEE	2014-15	50	13	2		
	2013-14	94	29	7	63.33	100
	2012-13	94	29	7	69.23	100
	2011-12	121	37	7	54.05	100
	2010-11	113	32	2	81.25	100
	2009-10	189	58	14	94.82	100
PG-ME-AE	2014-15	10	2	0		
	2013-14	10	1	2	100	100
	2012-13	21	0	7	100	100
	2011-12	42	4	10	100	100
	2010-11	67	16	10	100	100
	2009-10	62	6	22	100	100
Ph.D	2014-15	25	6	4		
	2013-14	18	2	2	-	100
	2012-13	21	3	2	50	50
	2011-12	34	-	2	100	

Name of the Programme (refer to question no. 4)		Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
	2010-11	10	-	4	100	-
	2009-10	12	2	2	-	-

33. Diversity of students :

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG-BE-EEE	2013-14	-	20	80	-
	2012-13	-	41.67	58.33	-
	2011-12	-	29.35	70.39	-
	2010-11	-	44.12	55.89	-
	2009-10	-	36.11	63.86	-
PG-ME-AE	2014-15	50	50	-	-
	2013-14	33.33	-	66.67	-
	2012-13	-	43.01	57.14	-
	2011-12	-	85.71	14.29	-
	2010-11	-	57.69	42.31	-
	2009-10	-	89.25	10.73	-
Ph.D	2014-15	20	30	50	-
	2013-14	66.67	33.33	-	-
	2012-13	-	20	80	-
	2011-12	-	100	-	-
	2010-11	85.71	14.28	-	-
	2009-	83.33	16.67	-	-

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
10				

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

GATE Exam	Batch					
	2014-2015	2013-2014	2012-2013	2011-2012	2010-2011	2009-2010
No. of students	-	-	-	8	6	5

35. Student progression :

Student Progression in 2014 batch

Student Progression	Percentage against enrolled
UG to PG	5
PG to M.Phil	NA
PG to Ph.d	NIL
Ph.d to Post Doctorate	NIL
Employed	16
Campus selection	5
Other than campus recruitment	11
Entrepreneurs	NIL

Student Progression in 2013 batch :

Student Progression	Percentage against enrolled
UG to PG	15
PG to M.Phil	NA
PG to Ph.d	NIL
Ph.d to Post Doctorate	NIL
Employed	29
Campus selection	3
Other than campus recruitment	26
Entrepreneurs	NIL

Student Progression in 2012 batch:

Student Progression	Percentage against enrolled
UG to PG	11
PG to M.Phil	-

PG to Ph.d	-
Ph.d to Post Doctorate	-
Employed	52
Campus selection	28
Other than campus recruitment	24
Entrepreneurs	-

Student Progression in 2011 batch:

Student Progression	Percentage against enrolled
UG to PG	16
PG to M.Phil	-
PG to Ph.d	-
Ph.d to Post Doctorate	-
Employed	57
Campus selection	22
Other than campus recruitment	35
Entrepreneurs	-

Student Progression in 2010 batch:

Student Progression	Percentage against enrolled
UG to PG	19
PG to M.Phil	-
PG to Ph.d	-
Ph.d to Post Doctorate	-
Employed	59
Campus selection	18
Other than campus recruitment	41
Entrepreneurs	-

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	37.5%
from other universities within the State	50%
from universities from other States	12.5%
from universities outside the country	0%

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Faculty who were awarded Ph.D. degree

1. Dr. X. Felix Joseph
2. Dr. D. M. Mary Synthia Regis Prabha
3. Dr. P. Sujatha Therese
4. Dr. H. Vennila
5. Dr. M. P. Flower Queen

38. Present details of departmental infrastructural facilities with regard

to

a) Library :

The Department of EEE purchases latest books on regular basis for the competitive examinations such as IES, GATE, GRE, CAT, TOFEL and MAT for the benefit of the students and they make use of these books to prepare for the examinations. Apart from these books, we also have books on General Knowledge and engineering stream wise books; books like competition success review, monthly magazines, and Monthly news are available to the students.

Details	**Total Numbers**	
Total number of Books	868	
Number of Journals and CD'S	11, 26	
Number of commercial Projects	UG	460
	PG	125
Total Number of Question Banks	36	
Competitive Questions	Gate, IES ,GRE, CAT,TOFEL,MAT Questions	

b) Internet facilities for staff and students :

More than 100 computers are spread over by EEE department.

The computer laboratories of the EEE department are equipped with powerful servers, workstations and personal computer systems.

A variety of peripherals like colour scanners, colour laser printers and colour plotters are available in the laboratories.

c) Total number of class rooms:

Total numbers of class rooms = 5

d) Class rooms with ICT facility:

There are 3 Class rooms with ICT facility.

e) Students' laboratories :

Students Lab =5

f) Research laboratories:

Research lab=1

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :

Doctoral Degree Students

Sl.	**Name of the student**	**Name of the guide**
1.	Mr. TibbiePonSymon	Dr. I. Jacob Raglend
2.	Mr. Ben John Stephen	Dr. T. Ruban Deva Prakash
3.	Mr. R. Muthuvel	Dr. L. Padma Suresh
4.	Ms. Anitha Janet Mary	Dr. L. Padma Suresh
5.	Mr. R. Rajesh	Dr. I. Jacob Raglend
6.	V.S.Bindhu	Dr. D. M. Mary Synthia Regis Prabha

Research Associates:

Sl.	**Name of the student**	**Name of the guide**

1.	Ms. S. Breesha	Dr. X. Felix Joseph
2.	Ms.I. Sree Devi	Dr. D. M. Mary Synthia Regis Prabha
3.	Ms. Teena	Dr. L.Padma Suresh

b) from other institutions/universities :

Doctoral Degree Students

Sl.	Name of the student	Name of the guide
1.	Ms. K. R. Suja	Dr. I. Jacob Raglend
2.	Ms. M. Sabana	Dr. L. Padma Suresh
3.	Ms. Mary Anitha	Dr. I. Jacob Raglend
4.	Ms. V. Rajeswari	Dr. L. Padma Suresh
5.	Mr. AbsalNabi	Dr. N. Albert Singh
6.	Ms. B. S. KavithaLekshmi	Dr. I. Jacob Raglend
7.	Mr.Lim J. Seelan	Dr. L. Padma Suresh
8.	Abdul Rahman Rafi M.	Dr. N. Albert Singh
9.	Ms. Gayathri	Dr. D. M. Mary Synthia Regis Prabha
10.	SreePrathab. N.R	Dr. X. Felix Joseph
11.	G.Anupriya	Dr. X. Felix Joseph
12.	V.S.Bibin Raj	Dr.G.GlanDevadhas
13.	C.K.Faseela	Dr.H.Vennila
14.	S.Jambulingam	Dr.D.M.MarySynthiaregisprabha
15.	A.Nabisha	Dr. X. Felix Joseph
16.	A.PharesonGini	Dr.M.P.Flower Queen
17.	PrajithPrabhakar	Dr.H.Vennila
18.	T.Pravin Rose	Dr.G.GlanDevadhas
19.	S.Sreekanth	Dr. X. Felix Joseph

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

No new programmes are started during the assessment period.

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes

Feedback from faculty on Curriculum:

Faculty members submit proposals for modification and improvement of syllabus, introduction of new courses, which are taken up in board of studies and the academic council of the university in the presence of local and outside experts from various universities and industries. Based

on the feedback from the faculty, the curriculum is reviewed and modified.

Feedback from faculty on teaching learning process:

Feedback on teaching learning process is attained from faculty by conducting staff meeting. Also staff members who are take part in staff development programmes, national and international seminars and conferences give their feedback in view of the latest trends in teaching – learning evaluation. Based on these feedbacks, corrective measures are taken, if any needed.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Feedback is obtained from the students on their staff and based on the evaluation of the feedback, the staff members who have got less feedback percentage are counseled and they are made to conduct special classes for those students. Moreover, the reason behind this low feedback is identified and corrective measures are taken.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumni of this department are invited to give guest lectures on new emerging areas and to give special lectures on the technologies that are being used in industries. The suggestions given by them on the planning of the curriculum and syllabus are considered and changes are carried out in the curriculum and syllabus. Feedback is also obtained from the alumni working in the leading IT industries and based on their feedback, special aptitude trainings are conducted and the students are trained inorder to face the placement interviews.

43. List the distinguished alumni of the department (maximum 10)

[1] Dr.T.SreeRengaraja
Prof &Head EEE dept
Anna university ,Nagercoil

[2] Mr.S.Titusthanga primus
Senior manager,CTS ,Chennai

[3] DrN.AlbertSingh,SDE(IT)BSNL
Nagercoil

[4] Mr.Jero G dhas
Business manager, South India
Microsoft consultancy services

[5] Mr.D.Antony prince
AEE/TANGEDCO,Thuthukudi

[6] Dr.S.V.Muruga Prasad
Principal,Younus institute of technology
Kollam, Kerala

[7] Mr.C.SasiKumar
Consultant,Oracle,USA

[8] Ms. R.Gifty Ernestina Benjamin
Scientist,VSSC,ISRO ,Trivandrum

[9] Mrs.T.Karpagam
Joint Director,Small Scale Industries,Guindy

[10] Mr.S.Subramaniam

Manager,TCS,London

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Year 2010

Sl.No	workshops/training courses	Date
1	National Level Technical Symposium(PERCIUZ-2010)	1st October 2010

Year 2011

Sl.No	workshops/training courses	Date
1	Two days workshop for engineering aspirants	6th and 7th April 2011
2	Soft skill training program by Axiom Academy	27th and 29th June 2011
3	National Franchisee program for electrical engineering students by TANGEDCO Madurai	9 to 11 june2011
4	National Level Technical Symposium (AUDVOLTAIS-2011)	28th and 29th September 2011
5	National seminar on Renewable energy and Energy Management systems (DRDO sponsored program ,New Delhi)	10th and 11th November 2011

Year 2012

Sl.No	workshops/training courses	Date
1	Soft skills training by Axiom Academy	15th and 16th October 2012
2	Placement and Training program in association with LAUNCHPAD	26th and 27th September 2012
3	Aptitude Training	17 to 22 October 2012

Year 2013

Sl.No	workshops/training courses	Date

1	National Level Technical Symposium (ILEKTRIMOS-2013)	5th and 6th March 2013
2	Aptitude Training by RIPE limited	10th and 12th September 2013

Year 2014

Sl.No	workshops/training courses	Date
1	Placement and Training Program	11th Sep 2014 – 26th Sep 14

45. List the teaching methods adopted by the faculty for different programmes :

- Lecture by teacher
- Class discussion conducted by teacher
- Discussion groups conducted by selected student chairpersons
- Lecture-demonstration by teacher
- Lecture-demonstration by another instructor(s) from a special field (guest speaker)
- Presentations by student panels from the class: class invited to participate
- Debate (informal) on current issues by students from class
- Class discussions conducted by a student or student committee
- Textbook assignments
- Reading assignments in journals, monographs, etc.
- Reading assignments in supplementary books
- Assignment to outline portions of the textbook
- Assignment to outline certain supplementary readings
- Open textbook study
- Committee projects - small groups
- Laboratory experiments performed by more than two students working together
- Use of power point presentation by instructor as aid in teaching
- Coaching: special assistance provided for students having difficulty in the course
- Open textbook tests, take home tests

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :

a. Students feedback report.
b. Continuous Internal Assessment
c. Classroom seminar sessions
d. Faculty feedback report
e. Regular department meetings of faculty to plan.
f. Campus placements

47. Highlight the participation of students and faculty in extension

activities :

1. Association of Electrical and Electronics Engineering
2. Mini projects.
3. Academic projects.

48. Give details of "beyond syllabus scholarly activities" of the department:

- Organizing National and International level conference for students.
- Participation in various national and international level paper presentations by our students.
- Paper presentation by faculty at state, national and international level.
- Faculty participation in various seminars and workshops.
- Involvement of the faculty in consultancy and R&D activities.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.:

The department takes effective steps to generate new knowledge among students as well as among faculty. In this aspect it organizes guest lectures, conducts national level technical symposium, national as well as international conferences including IEEE conferences, quiz competitions which helps students as well as the faculty to update their knowledge. It also conducts faculty development programmes to high light the new ideas and improve the quality of teaching. New magazines, journals etc. are made available for the students as well as for the faculty to update their knowledge in the department library. Also the department organizes research colloquium to share the ideas among staff. Also the staff members are motivated to write innovative projects and submit them to different organizations which provide funds for research projects. The department also provides all the facilities to complete their projects.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Major strengths:

Industry oriented academic syllabus
Effective teaching learning process
Staff student ratio of 1:7
Very good infrastructure
Good staff student relationship

Major Weakness:

No Patent
Lagging in consultancy projects

Major Opportunities:

Very good placement
To study foreign languages
To get training in personality development programmes
To get soft skill training

Major Challenges:

Organizing IEEE conferences
Publishing online international journals
Organizing Faculty development programmes
Obtaining funding for projects from different organizations

52. Future plans of the department.

a. To promote industry-institution interaction.
b. To develop the department to the centre of excellence in research.
c. To start the international journal in emerging electrical system.
d. All faculties will possess PhD as the minimum qualification five years.

Department Evaluative Report

Department of Electronics & Instrumentation Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Electronics & Instrumentation Engineering
Evaluative Report

1. **Name of the Department :** Electronics & Instrumentation Engineering

2. **Year of establishment :**1997

3. **Is the Department part of a School/Faculty of the university?**

   Yes (Faculty of Electrical & Electronics Eng.)

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)**

   UG - B.E (Electronics and Instrumentation Engineering)
   PG - M.E (Control and Instrumentation Engineering)
   Ph.D - Electronics and Instrumentation

5. **Interdisciplinary programmes and departments involved:**

Name of the Department	Subject Name	Subject Code	Semester & Year
IT	Microprocessor & Micro Controller	IT205	S6 B.E,3rd year
	Fundamentals of Data Structure	IT1217	S3 B.E,2nd Year
	Microprocessor & Micro Controller Lab	IT272	S6 B.E,3rd year
English	German Language Phase 1&2	PGL201 & PGL202	S5B.E,3RDYear & S6 ,3rdYear
	French Language Phase 1&2	PFL201 & PFL202	S3 B.E,3RD Year & S4 ,3RD Year
	Japanese Language Phase 1&2	PJL501 & PJL201	S1 M.E,1ST Year & S2 M.E,1ST Year
Mechanical	Applied Thermodynamics Dynamics	ME1222	S4 B.E,3rd Year
Mathematics	Advanced Mathematics	MA1501	S1 M.E,1ST Year
	Engineering Mathematics	MA1201	S3 B.E,2nd Year
	Numerical Methods	MA1203	S4 B.E,3rd Year
EEE	Electrical Engineering	EE1214	S3 B.E,2nd Year

	Electrical Engineering Lab	EE1277	S3 B.E,2nd

6. Courses in collaboration with other universities, industries, foreign institutions, etc :

Industry Sl. No.	Name	by
1	Training Programme for Students on "PLC/SCADA"	Yokogawa India Ltd.
2	Training Programme for Students on "DCS Fundamentals and Engineering"	Yokogawa India Ltd.
3	"Hands on Training in PLC Programming and SCADA Applications"	Yokogawa India Ltd

7. Details of programmes discontinued, if any, with reasons :

No Programmes are discontinued

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester & Choice Based Credit System

9. Participation of the department in the courses offered by other departments :

The department offers the courses for its students. It also engages many courses for the students in other departments. The subjects, departments and corresponding semesters are as follows

Name of Department	Subject name	Subject code	Semester and year
Automobile	Principles of Management	MS101	S7 – 4th year
	Professional and Business Ethics	MS1202	S3 – 2nd yr
Civil	Environmental Science	MS1201	S4 – 2nd year
Nano	Environmental Science	MS1201	S4 – 2nd year
	Principles of Management	MS101	S7 – 4th year

biomedical	Bio-Transducers and Sensors	BM1509	S2 – 1st year
	Virtual Instrumentation	BM1506	S2 – 1st year
	Advanced VirtualInstrumentation	BM2B1	S8- 4th year
mechanical	Nuclear Engineering	ME2A8	S7 – 4th year
	Engineering Metrology and Instrumentation	ME212	S5 -3rd yr
Marine	Advanced Marine Control Engineering & Automation	MR236	S8- 4th year
	Practical Marine Automation	MR222	S4- 2nd year
Aircraft Maintenance Engineering	Aircraft Digital Electronics and Instrumentation	AC1207	S3 – 2nd yr

10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professors	2	2	2
Asst. Professors	7	7	7
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D./M. Phil. students guided for the last 4 years**
Dr. R. Ganesa	Ph.D	Professor	AE	14.5	08
Dr. G.GlanDeva Dhas	Ph.D	Associate Professor	PCI	14.5	08
Dr. S.S. Kumar	Ph.D	Associate Professor	AE	11	08
Prof. R.Manju	M.E.	Assistant Professor	AE	9.3	-
Prof. R.Sarath	M.E.	Assistant Professor	AE	8.6	-

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M. Phil. students guided for the last 4 years
Prof. D.Jackson	M.E.	Assistant Professor	AE	13	-
Prof.V.Amsaveni	M.E.	Assistant Professor	AE	7	-
Prof. S.Felix Stephen	M.E.	Assistant Professor	C&I	7	-
Prof. S.Binu Sathiya	M.E.	Assistant Professor	AE	6.6	-
Prof. D.Menaka	M.E.	Assistant Professor	AE	10	-
Prof. J.Navis Thinagar	M.E.	Assistant Professor	C&I	3.3	-

Faculty Associated with mechanical department

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Prof. J. Navis Thinagar	M.E	Assistant Professor	AE	10	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

1) Dr. K. Gomathy, Retd. Joint Director of Tech. Education, Govt. of Kerala.

13. Percentage of classes taken by temporary faculty – programme-wise information :

Nil

14. Programme-wise Student Teacher Ratio :

SL.No	Detail	Student Teacher Ratio
1.	UG	15:1
2.	PG	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

SL.No	Detail	Sanctioned	Filled	Actual
1.	Academic support staff(technical)	3	3	3
2.	Administrative staff	Nil	Nil	Nil

16. Research thrust areas as recognized by major funding agencies:

- Advanced Sensor Technologies
- Process Control Instrumentation & Automation
- Machine Vision Technologies
- Advanced Image Processing Solutions
- Process Automation Systems
- Customized Quality Control Systems
- Advanced Photonic Sensor (including NIR) Technologies
- Digital Signal Processing Solutions
- Integrated Total Quality Management Systems
- Test & Measurement Systems for Process Industries
- Microwave Electronics,
- Microwave Instrumentation
- Instrumentation and related indigenous development of reactor control systems
- State-of-the-art radiation detectors
- Control of Advanced Technology Systems and fuel handling.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Name of the faculty	Area of projects	Funding agency
Dr. R. Ganesan(member)	OBC &Pay load	NIUSAT
Dr. G. GlanDevadhas(member)	Development of AOCS for Nano Satellite	NIUSAT
Dr. S. S. Kumar(member)	AIT	NIUSAT

18. Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration

NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Sl.No	Title of the Project	Principal-Investigator	Submitted to Funding Agency
1.	Development Of An Intelligent Supervisory Controller For Small Hybrid Power Plant	Dr. G. Glan Devadhas	AICTE
2.	Development Of An Intelligent Supervisory Controller For Small Hybrid Power Plant	Mr. D. Jackson(co-investigator)	AICTE

20. Research facility / centre with

- **state recognition**
- **national recognition**
- **International recognition**

1. EIE department has nationally recognized process control lab. The Process Control Laboratory installed at a cost of about Rs. 60 lakhs has application in the areas of Programmable Logic Controllers ('PLCs'), Distributed Control System (DCS), Supervisory Controller and Data Acquisition System (SCADA). The Process Control Lab has the facility of Yokogawa's DCS, the CENTUM CS1000 R3 system which gives real time control experience and serves the purpose of controlling many process stations, accessed from undefined locations, to a full degree. It is also equipped with Smart transmitters, Closed Loop Pressure Control Station, Pneumatic controllers, DSP processor, Feed Forward Controller, Ratio controllers and cascaded control systems, Spectrum Analyzer, Interacting and Non-Interacting Trainer Kit, Digital PID Controller, Analog PID Controller, Cascade Ratio Control trainer for Flow & Level Process Monitoring and Feed Forward Controller and latest Processors with advanced software. The department has an MOU with Yokogawa India Ltd., the students are provided certified training on Distributed Control System (DCS) and Programmable Logic Controllers (PLC) & SCADA by Yokogawa India Ltd. every year.

2. EIE department has nationally recognized Software simulation lab. Software simulation lab has full version of licensed MATLAB package.

21. Special research laboratories sponsored by / created by industry or corporate bodies :

S.No	Name of the lab	Established by
1.	Virtual Instrumentation Lab	Tech Labs
2	Process Control Lab	VI Micro systems

3.	Distributed Control System	Yokogawa

22. Publications:

- Number of papers published in peer reviewed journals (national / international) = 47
- Monographs = nil
- Chapters in Books = nil
- Edited Books = nil
- Books with ISBN with details of publishers = nil
- Number listed in International Database (For e.g. Web of Science,
- Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) = 27
- Citation Index – range / average =3-97
- SNIP -11.146
- SJR -6.319
- Impact Factor – range / average =(0.4-1.430)
- h-index -9

2010

Name	Title of the paper	Name of the Journal	Volume No.,page & year of Publication	In SCOPUS Yes/No	Impact Factor
Dr. R. Ganesan	Authentication Scheme for Multi-Server Environment	International Journal of CiiT	ISSN 0974-9616- 2010	YES	0.62
Dr. G. Glan Devadhas	Robust Temperature Controller Design for a Chemical Process	International Journal of Engineering Science and Technology	Vol. 2(10), 2010, 5831-5837	No	
	Intelligent Controller Design for a Chemical Process	International Journal of Engineering	Vol: 4(5), 2010, 399-410	No	
Dr. S. S. Kumar	Diagnosis of Liver Tumor from CT Images using Wavelet Transform	Nice Journal of Emerging Technologies	Vol. 05, No.2, pp-52-58, 2010	No	-
	Diagnosis of Liver Tumor from CT Images using Curvelet Transform	International Journal on Computer Science and Engineering	Vol. 02, No. 04, pp.1173-1178, 2010	No	

	Diagnosis of Liver Tumor from CT Images Using Fast Discrete Curvelet Transform	IJCA Special Issue on Computer Aided Soft Computing Techniques for Imaging and Biomedical Applications	pp. 1-6, 2010	No	

2011

Name	Title of the paper	Name of the Journal	Volume No.,page & year of Publication	In SCOPUS Yes/ No	Impact Factor
Dr. R. Ganesan	Neural Networks in Crumple of Command in Use	International Journal on Recent Trends in Engineering & Technology	ISSN: 2158-5563 Vol. 6, No. 1 Nov. 2011 by the ACEEE , USA	YES	
	A New Balanced Encryption Algorithm with elevated Security base on Key update	European Journal of Scientific Research	ISSN 1450-216X Vol.60 No.2 (2011), pp.177-194	YES	0.43
	Improved Receiver-Based Algorithm for Resourceful Broadcasting in Portable Ad Hoc Networks	International Journal of Computer Science Engineering and Technology	ISSN 2231-0711 Vol.1,Issue 7 (2011),pp.391-394	YES	
	The Cryptographic Hash Function RIPEMB	International Journal of Computing and Application	ISSN 0973-5704, Vol. 6, No. 2 (July-Dec 2011)	No	
	A Comprehensive Study: Data Mining Frameworks for Intrusion Detection	International journal of advanced computer research	ISSN: :2277–7970 2011	No	
Mr. G. Glan Devadhas	Intelligent Computation of Controller Using Optimisation	International Journal of Research Reviews in Soft Computing	Vol.1(3),49-55, 2011	No	

	Techniques for a Nonlinear Chemical Process				
	An Intelligent PID Controller Design for A Nonlinear Chemical Process	International Journal of Power system and Power electronics	Vol4(1), 58-65, 2011	No	
	Comparative Analysis Of Model Based Controller Design For A Chemical Process	Nice Journal of Emerging Technologies	Vol.6(11),63-70, 2011	No	
Dr. S. S. Kumar	Diagnosis of Liver Tumour from CT Images using Wavelet Coefficients Co-occurrence Matrix Features	International Journal of Image Processing & Networking Techniques	Vol. 4, No.1, pp.45-52, 2011	No	
	Diagnosis of liver tumour from CT images using contourlet transform	International Journal of Biomedical Engineering and Technology	Vol. 7, No. 3, pp. 276-290, 2011	Yes	
	Automatic Segmentation of Liver and Tumor for CAD of Liver	Journal of Advances in Information Technology	Vol. 2, No. 1, pp.63-70, 2011,	No	
	Liver Tumor Classification using co-occurrence matrix on contourlet domain	Machine Graphics and Vision	Vol. 20, No.2, pp. 197 - 214, 2011	Yes	

2012

Name	Title of the paper	Name of the Journal	Volume No.,page & year of Publication	In SCOPUS Yes/No	Impact Factor

	Optimum setting of PID controller for a chemical Process	American Journal of Applied Sciences	Vol 8 (11): 1140-1148	No	
Dr. G. Glan Devadhas	An Intelligent Design of PID Controller for a Continuous Stirred Tank Reactor	World Journal of Applied Sciences	Vol14(5),698-703	No	
	Efficient and Reliable Tuning Techniques for PI-Controller in a Chemical pH Process	Indian Journal of Chemical Technology	19(4) pp. 289-294, 2012	Yes	0.61
Dr. K. S. Saji	Tuning Employing Fuzzy and ANFIS for a pH Process	Control and Intelligent Systems, Acta Press	40(2), pp. 95–101, 2012	Yes	0.398
	PI-Controller Tuning for Heat Exchanger with Bypass and Sensor	International Journal of Electrical Engineering	5(6), pp. 679–689, 2012	Yes	0.164
Dr. C. Sreekanth	A Novel FPGA Based PWM	International Journal of Electrical Engineering	Vol. 5, No.7, pp. 853-862, 2012	Yes	

	Active Power Filter for Harmonics Elimination in Power System				
Mrs. R. Manju	Performance analysis of multimodal biometric based authentication system	International Journal of Engineering Research & Technology	Volume 1, Issue 7, Sep 2012	No	

2013

Name	Title of the paper	Name of the Journal	Volume No.,page & year of Publication	In SCOPUS Yes/No	Impact Factor
Dr. S. S. Kumar	Automatic segmentation of liver tumour using a possibilistic alternative fuzzy c-means clustering’	International Journal of Computers and Applications	10.2316/Journal.202.2013.1.202-3246	No	
	Automatic Liver and Lesion Segmentation: A Primary Step in	Signal Image and Video Processing	Vol. 7, (1), pp 163-172, 2013	Yes	1.019

	Diagnosis of Liver Diseases				
	An automatic computer-aided diagnosis system for liver tumours on computed tomography images	Computers and Electrical Engineering	Vol. 39 (5), pp. 1516–1526, 2013	Yes	0.970
Dr. C. Sreekanth	FPGA Based Implementation of Amplitude Modulated Triangular Carrier PWM	Przeglad Elektrotechniczny (Electrical Review)	Vol. 07, pp. 41-44, 2013	Yes	
Mr. R. S. Ganesh	A Survey on Channel Estimation Analysis in MIMO-OFDM system	International Journal of scientific & Engineering Research	Vol.4 Issue.5 PP-1851-1855 2013	No	
Mr. R. Sarath	A novel hybrid technique for secret key sharing in networks	IJCA	March 2014	Yes	

2014-2015

Name	Title of the paper	Name of the Journal	Volume No.,page & year of Publication	In SCOPUS Yes/No	Impact Factor
Dr. R. Ganesan	Evaluating the quality of compression in very high resolution satellite images using different compression methods	International Journal of Engineering Research in Africa	Vol. 18, (2015)	Yes	
	Fusion of DWT-DCT algorithms for satellite image compression	International Journal of Applied Engineering Research	Vol. 10, No. 59 (2015)	Yes	
	Design and Analysis of two different antennas for ocean communication	International Journal of Applied Engineering Research	Vol. 10, No. 59 (2015)	Yes	
	Design of delay tolerance network for smartphones	International Journal of Applied Engineering Research	Vol. 10, No. 59 (2015)	Yes	
	An improved LTE Advanced architecture: 3GPP advanced turbo decoder	International Journal of Applied Engineering Research	Vol. 10, No. 59 (2015)	Yes	
	Performance Evaluation of Basic Compression methods for different satellite	Indian Journal of Science and Technology	Vol. 8, No. 19 (2015)	Yes	

	imagery				
	Experimental Analysis of Compacted Satellite Image Quality using Different compression methods	International Journal of Advanced Science, Engineering and Medicine (ASEM)	Vol 7, 1-7, 2015	No	
	PAPR reduction of SFBC-OFDM systems by adding cosine transform along with SLM technique	International Journal of Applied Mechanics and Materials	2014	No	
Dr. G. Glan Devadhas	A Survey of Segmentation of Brain Tumor from MRI Brain Images	International Journal of Applied Engineering Research	Vol. 9 No.26 (2014)	Yes	
Dr. S. S. Kumar	Performance analysis of wave atom transform in texture classification	Signal Image and Video Processing	July 2014, Volume 8, Issue 5, pp 923-930	Yes	1.430
	Methodological Survey on Fetal ECG Extraction	IOSR Journal of Computer Engineering (IOSR-JCE)	Volume 16, Issue 5, PP 105-115	No	
	Techniques for Fetal ECG Extraction-A mini Survey	International Journal of Research in Engineering and Bioscience	Vol 2,no 2,pp 77-91, 2014	No	
	Importance of Digital Image Segmentation Algorithms for Computer Aided	International Journal of Applied Engineering Research	Vol. 9 No.26 (2014) pp. 9262-9266	Yes	

	Diagnosis – A Review				
	A Survey of Segmentation of Brain Tumor from MRI Brain Images	International Journal of Applied Engineering Research	Vol. 9 No.26 (2014) pp. 9267-9275	Yes	
	Brain Tumor Segmentation- A Parallel Approach in Multicore Architecture using OpenMP	International Journal of Applied Engineering Research	Vol. 9 No.26(2014) pp. 9226-9229	Yes	
Mr. R. Sarath	Secure ATM Pin Generation Through Quantum Cryptography	International Journal of Research in Science & Engineering	Volume 3 Issue 8 [Sep.2015]	Yes	
Mrs. D. Menaka	Modified Sparse classifier in Land Cover Clasification of Multispectral Satellite Images	International Journal of Applied Engineering Research	Vol. 9 No.26 (2014) pp. 9467-9472	Yes	

23. Details of patents and income generated :

NIL

24. Areas of consultancy and income generated :

SL.No.	Name of the faculty member	Area of consultancy carried out	Income generated
1.	Dr. G. Glan Devadhas Mr. J. Navis Thinagar	PLC Installation,Programming,testing and training – Puthalam Chemicals Pvt. Ltd., Thenkamputhoor	Rs.1,25,000
2.	Dr. R. Ganesan Dr. S. S .Kumar	MATLAB simulation-Softexper Solutions Pvt. Ltd.	Rs.69,000
3.	Mr. D. Jackson	Layout design, HT wiring-Shree Ganesh LPC Pvt.Ltd., Aralvaimozhi	Rs.1,50,000

4.	Mr. D. Jackson	Solar panel testing- Chrisam Traders, Chennai	Rs.1,31,000

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Name of the faculty	Name of the lab/institution/industries	India	abroad
Dr. R. Ganesan	Nano Technology Lab	IISC, Bangalore	
	Payload Design lab	ISAAC, Ahmadadad	
	System Design Lab	IIST,TVM	
	Instrumentation System lab		NIZVA College of Technology,Oman
	RF System design lab	Data Pattern ,Chennai	
	Electronics System Design Lab	Data Pattern ,Chennai	
	OBC System design lab	ISAAC, Banglore	
Dr. G. GlanDevadhas	System Design Lab	IIST,TVM	
	ISRO Satellite center(all laboratories)	Bangalore	
	Electronics System Design Lab	NIT ,TRICHY	
Dr. S. S. Kumar	Virtual Instrumentation Lab	PSG Tech, Coimbatore	
	VLSI Lab	Hindustan University Chennai	
Mr. J. Navis Thinagar	Schneider Electric	Chennai	
	Zicom	Bangalore	
	Siemens	Mumbai	

26 Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify):

Dr. G. Glan Deva Dhas	BOS (EIE) Chairperson, Academic Council Member, BOS(Aerospace) Member, BOS(Avionics) Member,

	BOS(Biomedical) Member Reviewer(IJMSSC) Reviewer(ICCPCT-2014,ICBDM) Question paper setting(Kongu Engineering college,Annamalai university,Dr.MGR University)
Dr. S. S. Kumar	BOS (EIE) Member, Reviewer(Elsevier,Springer)
Prof. R.Manju	BOS (EIE) Member
Mr. R. Sarath	BOS (EIE)Member
Mr. D. Jackson	BOS (EIE)Member

27 Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

Sl.No	Name of Staff	Title	Date	Conducted By	Sponsored By
1	Dr. R. Ganesan	Teaching methodologies		Nizwa college of technology, Oman	
		E-Learning		Nizwa college of technology, Oman	
		System On Chip		Adhiyaman Engg. College, Hosur	
		VLSI DESIGN & TESTING		Adhiyaman Engg. College, Hosur	
		ARM MICROCONTROLLER		RL JALAPPA IT BANGALORE	
		FLASH MICROCONTROLER		RL JIT BANGALORE	
		NETWORK SECURITY		Adhiyaman Engg. College, Hosur	
	Dr. G. Glan Devadhas	Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	

		PLC & SCADA	2nd to 6th March 2011	NICHE	Yokogawa India Ltd
		Training Programme on Human rights issues	15th Dec 2012	National Human rights Commission-New Delhi Heera College of Engineering and Technology	
		Control and Image Processing applications:Hands on Training Using Matlab	18th Oct2012-20th Oct 2012	NICHE	
		National level Workshop on Industrial Automation	Oct2013	EIE, NICHE	Automation India Ltd.
		5days Training Programme on Distributed Control Systems	15th -19th Feb 2012	NICHE	YOKOGAWA India Limited
3	Dr. S. S. Kumar	Wavelet Transforms and its Applications	4th & 5th February 2011	Dept of ECE, Mepco Schlenk Engineering College, Sivakasi	--
		Recent Trends in Intelligent System Design using LabVIEW	28th to 29th April 2011	Dept of EIE, NICHE	DRDO
		Gateway to Research	23rd -24th Septemb er 2011	ISTE Chapter NICHE,	ISTE
		Mini Colloquium on Micro Electronics Circuits	24th Feb 2012	Dept of ECE, NICHE,	IEEE
		Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Control & Image Processing Applications:	18.10.20 12 – 20.10.20	Dept of EIE, NICHE	-

		Hands on Training using MATLAB	12		
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on Training in PLC programming and SCADA Applications	24th to 25th October 2013	Dept of EIE, NICHE,	
4	Mrs. R. Manju	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	-
		PLC & SCADA	2nd to 6th March 2011	NICHE	Yokogawa India Ltd
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
5	Mr. R. Sarath	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Workshop on Research Project Writing	21ST August 2012	NICHE	
		Two days Workshop on LaTeX	NIU, Kumaracoil	NICHE ,2010 Two days Workshop, 15th & 16th December 2010	
		MicroElectronics circuits and system	NICHE, Kumaracoil	NICHE ,Workshop 24 feb 2012	
		Control & Image	18.10.20	Dept of EIE,	-

		Processing Applications:Hands on Training using MATLAB	12 – 20.10.2012	NICHE	
			2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Training in Counseling and Mentoring	17.9.2014 to 20.09.2014	NICHE	Dept. of HRM
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
6	Mr. D. Jackson	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	-
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
7	Mrs. V. Amsaveni	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	---
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on training in PLC and	24.10.2013 to	Dept of EIE, NICHE	

		SCADA	25.10.2013		
8	Mr. S. Felix Stephen	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICHE	---
		Recent Trends in Intelligent System Security Design using LABVIEW	28th and 29th March 2011	Dept of EIE, NICHE	---
		Two day Workshop on Gateway to Research	23th and 24th Sep. 2011	ISTE Chapter NICHE	---
		Automation Engineering	13th – 15th Dec 2011	ICT Academy of Tamilnadu	National Instruments
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	----
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
9	Mrs. S. Binu Sathya	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
10	Mrs. D. Menak	Engineering Graphical System Design using LabVIEW	05th to 7th January 2011	Dept of EIE, NICHE	Trident Techlabs
		Design and Sizing of Control Valves	14th February 2011	Dept of EIE, NICE	---

		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	Dept of EIE, NICHE	----
		PLC & SCADA	2nd to 6th March 2011	NICHE	Training Centre of Yokogawa India Ltd
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	
11	Mr. J. Navis Thinagar	Workshop on Research Project Writing	21ST August 2012	NICHE	---
		Control & Image Processing Applications:Hands on Training using MATLAB	18.10.2012 – 20.10.2012	NICHE	---
		Hands on training in PLC and SCADA	24.10.2013 to 25.10.2013	Dept of EIE, NICHE	

28 Student projects

- **percentage of students who have done in-house projects including inter-departmental projects :**

Batch	Percentage of students	
	BE	**ME**
2011	90.9	100
2012	100	100
2013	100	94.11
2014	97.2	100
2015	100	100

- **percentage of students doing projects in collaboration with other universities / industry / institute :**

Sl.No	Year	Percentage
1.	2010-11	Nil
2.	2011-12	Nil
3.	2012-13	5.8
4.	2013-14	17.6
5.	2014-15	Nil

29. Awards / recognitions received at the national and international level by

- **Faculty**
  Nil
- **Doctoral / post doctoral fellows**
  Nil
- **Students**
  Nil

30. Seminars/ Conferences / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any :

Sl. No.	Name	Dates	Sponsored By
1	National Level Workshop on "Engineering Graphical System Design using LabVIEW"	5th Jan 2011 to 7th Jan 2011	Trident Techlabs
2	Design and Sizing of Control Valves	14th Feb 2011	RK Control Valves
3	Training Programme for Students on "PLC/SCADA"	2nd Mar 2011 to 6th Mar 2011	Conducted by Yokogawa India Ltd.
4	National Conference on Recent Advances in Industrial Networking (RAIN11)	30h Mar 2011 to 31st Mar 2011	EIE, NICHE
5	Training Programme for Students on "DCS Fundamentals and Engineering"	15th Feb 2012 to 19th Feb 2012	Conducted by Yokogawa India Ltd.
6	Workshop on Control & Image Processing Applications:Hands on Training using MATLAB	18th Oct 2012 to 20th Oct 2012	EIE, NICHE
7	Workshop titled "Hands on Training in PLC Programming and SCADA Applications"	24th to 25th Oct. 2013	EIE, NICHE
8	Workshop : Hands on Training using MATLAB	6th and 7th March 2014	EIE, NICHE
9	Workshop titled "Industrial Automation using PLC and SCADA Programming"	12th and 13th Aug 2014	EIE, NICHE
10	ICCICCT-2014	10th to 11th July. 2014	IEEE
11	ICSCASE-2015	23RD &24TH JULY 2015	EIE, NICHE

31. Code of ethics for research followed by the departments :

The research scholars wish to join the Ph.D programme should apply in the prescribed application form, though proper channel wherever

applicable, before the due date as indicated in the notification issued from time to time. The research guide should have Doctoral Degree in the relevant area of research in which he/she proposes to guide the scholar. The Doctoral Committee of a research scholar shall meet within a month from the date of communication of his/her registration to prescribe the course work.

GENERAL RESPONSIBILITY

- Be sensitive to the needs, current issues, and problems of society when determining research questions to be asked, services to be developed, information to be collected, or the interpretation of results/findings.
- Protect the dignity and wellbeing of research participants at all times.
- Maintain records of research data for an appropriate period of time and ensure that these are stored according to the provisions of legislation in this area.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	**Applications received**	**Selected** Male Female	**Pass percentage**
BE(EIE) 2011-2015	35	9 boys and 1 girl	90
BE(EIE) 2010-2014	56	14 boys and 1 girl	100
BE (EIE) 2009-2013	49	37 boys and 6 girls	100
BE (EIE) 2008- 2012	70	41 boys and 28 girls	94
ME(C&I) 2013-2015	5	3 boys	-
ME(C&I) 2012-2014	18	7 boys and 10 girls	100
ME (C&I) 2011-2013	18	5 boys and 12 girls	100
ME (C&I) 2010-2012	14	7 boys and 7 girls	100
ME (C&I) 2009-2011	10	3 boys and 7 girls	100

33. Diversity of students:

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
ME (C&I) 2011	-	23.5	76.5	-
ME (C&I) 2012	-	35.3	64.7	-
ME (C&I) 2013	-	-	100	-

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
ME(C&I) 2014	-	11.7	88.3	-
ME(C&I) 2015	-	23	77	-

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

BE (EIE) 2008- 2012 - 1

35. Student progression:

Student progression	Percentage against enrolled
UG to PG	8.12%
PG to M.Phil.	nil
PG to Ph.D.	nil
Ph.D. to Post-Doctoral	nil
Employed • Campus selection • Other than campus recruitment	6, 44, 15=35.14%
Entrepreneurs	32, 20, 35=47.03%

36. Diversity of staff :

Percentage of faculty who are graduates	
from the same university	nil
from other universities within the State	13=100%
from universities from other States	nil
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Ph.D – 3
Dr. R. Ganesan (2011)
Dr. Glan Devadhas (2013)
Dr. S. S. Kumar (2013)

38. Present details of departmental infrastructural facilities with regard to

a) Library :
Electronic Journals and magazines are subscribed for the student usage to enhance their knowledge confining to theory, practicals and research. In total, about 1000 textbooks were currently available in the department library.

b) Print (books) -1000

c) Average number of books added during the last five years :
Books added during year 2010-2011 = 100
Books added during year 2011-2012 = 20
Books added during year 2012-2013 = 20
Books added during year 2013-2014 = 215
Books added during year 2014-2015 = 60

d) Non Print (Microfiche, AV) - Nil

e) Electronic (e-books, e-journals) – ieee, science direct

e) Special collections (eg. Text books, reference books, standards, patents) :
1. Reference Books
2. Competitive Exam Books
3. UG and PG Project Reports
4. Question Banks
5. CDs

f) Internet facilities to staff and students:
The department offers wi-fi internet connectivity at a speed of 10 Mbps during working hours to promote the use of E-resources for both faculty and students.

g) Total number of class rooms : 4

h) Class rooms with ICT facility : 1

i) Students' laboratories:
Excellent lab facilities with sufficient modern equipment's are available to meet the need of students. Following are the laboratories available in the department:
- Process Control Lab
- Industrial Instrumentation Lab
- Measurements and Instrumentation Lab
- Electronics Lab

j) Research laboratories:

1)The Process control laboratory is equipped with research facilities.
2) EIE department has nationally recognized Software simulation lab. Software simulation lab has full version of licensed MATlab package

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

- Mrs. R. Manju
- Mr. R. Sarath
- Mrs. V. Amsaveni
- Mr. S.Felix Stephen
- Mrs. S. Binu Sathiya
- Mrs. D.Menaka

b) from other institutions/universities

BATCH: JULY 2014

Sl. No	Name of the Scholar	Discipline	Title of Research Topic	Name & Address of the Supervisor
1	Densingh Xavier S.P 0114911202	EIE	Classification and analysis for ECG processing using multiresolution techniques	Dr. G. Glan Dava Dhas Associate Professor Dept.of EIE, NICHE
2	Reeba Rex .S 0114910211	EIE	VLSI Design of high speed and low-latency mimo detection system	Dr. Mary synthia Regis Prabha Associate Professor Dept.of EEE, NICHE
3	Vishnu .V.S 0114911203	EIE		Dr. G. Glan Dava Dhas Associate Professor Dept.of EIE, NICHE
4	Abhilash B L 0114911201	EIE		Dr. G. Glan Dava Dhas Associate Professor Dept.of EIE, NICHE
5	Saju Simon S.G 0114904201	EIE	Analysis of Lesions in Dental X-Ray Images	Dr. X. Felix Joseph Associate Professor, Dept. of EEE, NICHE

BATCH : JULY 2013

Sl. No	Name of the Scholar	Discipline	Title of Research Topic	Name & Address of the Supervisor
1	Kabila. V 0113911201	EIE	Supervisory Switching Control Design for a Nonlinear System.	Dr. G. Glan Deva Dhas, Associate Prof & HOD Dept of EIE, NICHE

BATCH : JULY 2012

Sl. No	Name of the Scholar	Discipline	Title of Research Topic	Name & Address of the Supervisor
1	Ajina Charles C Reg. No.0112911101	EIE	Design of Wireless Sensor Networks with Wind Energy Harvesting for Practical Applications	Dr. I. Jacob Raglend Professor, Dept. of EEE NICHE

JULY 2010

Sl. No	Name of the Scholar	Discipline	Title of Research Topic	Name of the Supervisor
1	Mrs. M. V. Mini Reg No: 0110911203	EIE	Robust Controller Design for a Power Converter	Dr.L.PadmaSuresh Professor & Head NICHE
2	Mr. M. Manoj Reg. No: 0110911202	EIE	Fuzzy Based PID Controller with Improved Performance using VHDL for Transportation	Dr.L.PadmaSuresh Professor & Head NICHE

BATCH: JULY 2009

Sl. No	Name of the Scholar	Discipline	Title of Research Topic	Name & Address of the Supervisor
1	TINU VARGHESE REG.NO:0109904101	EIE	Functional and Volumetric Changes of Specific Region or Human Brain and the Human Cognitive and Behavioral Manifestations	Dr. R. S. Mathuranath Associate Professor of Neurology, CBNC SCTIMST, TVM Kerala-695011 Cell No:09387812864 E-mail: mathu@schmst.ac.in

2	M.ASHKAR MOHAMMED Reg No:0109911202	EIE	Fast Elliptic Curve Cryptography	Dr.S.Suresh Babu Professor, TKM college of Engg Kollam-691005 Cell No:09447266626 E-mail:drssbtkm@gmail.com
3	DEEPESH EDWIN Reg No: 0109911203	EIE	Biomedical Image Analysis for the Detection of Malignancies in Human Organs	Dr.S.Hariharan, Professor College of Engg Tirvandrum Cell No:09447697695 E-mail:

40. Number of post graduate students getting financial assistance from the university :

NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

No new programmes are started during the assessment period.

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Faculty members submit proposals for modification and improvement of syllabus, introduction of new courses, which are taken up in board of studies and the academic council of the university in the presents of local and outside experts from various universities and industries. Based on the feedback from the faculty, the curriculum is reviewed ,modified and changes will be made

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Feedback on teaching learning process is attained from students on all the subjects.Based on the feedback corrective measures are taken by theHOD

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedbacks from alluminis and employers are collected and Based on the feedback improved methods are recommended for the use in the department.

43. List the distinguished alumni of the department (maximum 10) :

Sl.No	Name	Designation
1.	N.Karthik Nambi	Software Engineer, Robert BOSCH, Coimbatore.
2.	S.SivaRenjith	Maintenance Engineer, VEDANTA , Rajastan
3.	H.Kannan	Asst.System Engineer, TCS Chennai
4.	M.S.Jeyaram	Asst.System Engineer, TCS Chennai
5.	T.Nithya	Project Engineer, WIPRO, Chennai
6.	Rameez Fathima	Assistant Engineer, Coastal Energen Pvt. Ltd, Tuticorin
7.	N.Nagajothy	Assistant Engineer, Coastal Energen Pvt. Ltd, Tuticorin
8.	D.Stalin	Software Engineer, Accenture, Chennai
9.	Erin Pradeepa	Software Engineer, Accenture, Chennai
10.	Ranjana K Ruth	Software Engineer, Accenture, Chennai
11.	Vishal Sam Varghese	Entrepreneur, Educational Serious
12.	Parvathy Girija	Inst. Engineer, abhalh Calibration, UAE
13.	Nithin Abraham Jose	Instrumentation and Automation, SliT
14.	Jose George	Inst. Engineer ,Arabcal, Dubai
15.	Vyshak P Kumar	Inst. Engineer , Arabcal, Dubai

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Sl. No	Date	Name of the resource person turned out	Date of Seminar	The Personality given
1	11-1-11	Mr.Saravana Santhar	20-1-11	Final Year
2	6-2-2011	Mr.M.Arul Savier	14-2-2011	Final Year
3	6-7-2011	Mr.Joseph Jeyaseelan	8-7-2011 10-7-2011	Final Year
4	18-8-2011	Mr.Kannan	5-9-2011	Final Year
5	1-9-2012	Mr.Parthiban	10-9-2012 to 12-9-2012	Third Year
6	23-9-2012	Mr. Gopalan	5-10-2012	Third Year
7	1-9-2013	Mr. M. Radhakrishnan	6-9-2013	Final Year
8	28-3-2014	Mr. K. Shuhail & Mr. Rinosh Wahab	28-3-2014	Final Year

45. List the teaching methods adopted by the faculty for different programmes :

The faculty in-charge for the course begins the semester by preparing a teaching plan for the entire course. The faculty has to plan the delivery of the content depending on the number of teaching hours allotted per week. The text books, reference books and other materials are recommended to the students. The teacher keeps a record of the date in which the corresponding topic is taught. This ensures that the teacher covers the entire syllabus within the stipulated time period.

The delivery of the course content may be in any of the following manners:

- **Lecture**

The primary teaching method adopted in the classes is by lecturing according to the teaching plan. The teacher delivers the lecture either using power point presentation/ OHP sheets/ board and chalk method.

- **Tutorial hours**

Tutorial hours are planned for problematic subjects. The teacher makes to work out more problems on the topics taught to enhance the understanding by the students.

- **Open Source online course materials (NPTEL, etc.)**

The University hosts an e-learning site which contains video lectures, learning materials from sources like NPTEL, ICT.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Organize round tables & faculty presentations of EIE staff members.
- Invite guest lectures from eminent areas.
- Series tests are conducted on regular basis and the performance are analyzed by respective mentors.
- Feed backs are collected from students and aluminis.

47. Highlight the participation of students and faculty in extension activities:

Apart from class room teaching and learning, students participate themselves in the following extension activities.

Each UG programme has technical association in which both faculties and students are members. The activity of the association is monitored by office bearers consisting of elected student members and two faculties (Secretary & Treasurer) nominated by HOD.

The faculties have engaged in NIUSAT satellite programmes.

The faculties are actively involved in Noorul Islam Staff Welfare Association (NISWA), ISO, NSS, University stock verification activities.

Also the faculties are editorial board members of University Magazine, Academic Calendar, and department magazines.

The faculties arrange weekly seminars, competitions, training for developing soft skills and communication skills etc. for the students.

Students are encouraged to participate in state and national level seminars and conferences.
Students are encouraged to present their project contributions in international forum.
Students are members of NSS, NCC, YRC, Fine Arts, and Tourism etc.
The NSS students participate in community development activities and organize exclusive camps with specific objectives. YRC is actively organizing blood donation and health camps regularly.
Students are members of chapters such as ISA.
The department organizes workshops, seminars, conferences, field visits and expert lectures.
Faculties publish their research works and contributions in international forums.
Faculties are involved in monitoring student hostels of the campus.

1. Associations

Name of the activity	Period and Date of conduct	No. of Participants
TECHWARZ' 10 Project Expo	12th March 2010	65
INCULT 2K11 Paper Presentation	10th and 11th March 2011	60
RENIX 2K12 Paper Presentation	8th and 9thMarch 2012	65
EXPINS-2K13 Instruments Expo	7th November 2013	50
GAIN -2K14 Paper Presentation	6th March 2014	78

2. Student Chapter

Name of the activity	Period of conduct	No. of Participants
ISA (International Society of Automation)	2012	137

3. Competitive Examinations

Sl.no	Name of the Examination	Name of the student	Year
1.	TOFEL	Pranav	2013

48. Give details of "beyond syllabus scholarly activities" of the department.

Sl.no	Name of the program	Duration	Sponsor
1.	Control & Image processing Application: Hands on training using	18-10-2012 to 18-20-2012	NICHE

	MATLAB		
2.	Recent trends in intelligent system security design using LABVIEW	28-04-2011 to 29-04-2011	DRDO
3.	Engineering graphical system design using LABVIEW	5-01-2011 to 7-01-2011	NICHE & Trident Techlabs , Chennai

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

To generate new knowledge and innovativeness among students as well as faculty the department organizes guest lectures from eminent personalities, conducts technical symposium, research colloquium which helps students as well as the faculty to update their knowledge. EIE Department also conducts faculty development programmes for improving the innovative skills of faculty. Also the staff members motivated to write innovative projects and apply to different organizations which provide funding for research projects and also provide all the facilities to complete their projects.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strength:

State of art Industrial training by industrial experts

- Active participation of faculty members in various workshops.
- Good publications by the faculty members in the last three years
- Process Control Lab equipped with state of art technological equipment like DCS,PLC,SCADA etc. at a cost of 60 lakhs
- All faculty members registered Ph.D
- Board of Studies meeting with experts from IIST, NIT and ABB

Weaknessess:

PG courses are less in number.

Opportunities:

- Active participation of faculty in NIU Sat-Nano satellite project (AOCS, AIT, Ground Station)
- Research and development
- Technical tools up gradation

Challenge:

- 100% placement in reputed industries

52 Future plans of the department :

- To conduct more International Conferences
- To sign MoU's with renowned International Institutions
- To generate funds through projects/ training to organisation
- To Start PG programs specialized in VLSI & Embedded system
- To start an international journal on process automation
- To establish industrial interaction

Department Evaluative Report

Department of Information Technology



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Information Technology
Evaluation Report

1. **Name of the Department :-**Information Technology

2. **Year of establishment :** 1998

3. **Is the Department part of a School/Faculty of the university?**
   Faculty of Computer and Information Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

   UG Courses: B.Tech - Information Technology
   PG Courses: M.E - Software Engineering
   M.E - Cyber Security

5. **Interdisciplinary programmes and departments involved :**
   B.Tech (Information Technology)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1	EG101 Technical English-I	1st	English
2	MA101 Applied Mathematics-I	1st	Mathematics
3	PH101 Engineering Physics-I	1st	Physics
4	CH101 Engineering Chemistry-I	1st	Chemistry
5	ME101 Engineering Graphics	1st	Mechanical Engineering
6	CS101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7	CS171 Computer Practice Lab I	1st	Computer Science and Engineering
8	PH171-Physics Lab-I	1st	Physics
9	CH171-Chemistry Lab-I	1st	Chemistry
10	CV171-Civil Lab	1st	Civil Engineering
11	ME171-Mechanical Lab	1st	Mechanical Engineering
12	ME172-Computer Aided drafting and Modelling Lab	1st	Mechanical Engineering
13	EG102 Technical English-II	1st	English
14	MA102 Applied Mathematics-II	1st	Mathematics
15	PH102 Engineering Physics-II	1st	Physics
16	CH102 Engineering Chemistry-II	1st	Chemistry
17	ME102 Engineering Mechanics	1st	Mechanical Engineering
18	CV101-Basic Civil Engineering	1st	Civil Engineering
19	ME103-Basic Mechanical	1st	Mechanical Engineering

	Engineering		
20	EE101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering
21	EC101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
22	CS172 Computer Practice Lab II	1st	Computer Science and Engineering
23	PH172-Physics Lab-II	1st	Physics
24	CH172-Chemistry Lab-II	1st	Chemistry
25	EE171-Electrical Lab	1st	Electrical and Electronics Engineering
26	EC171-Electronics Lab	1st	Electronics and Communications Engineering
27	MA201 Applied mathematics III	2nd	Mathematics
28	CS201 Computer Architecture	2nd	Computer Science and Engineering
29	EC217 Digital Principles and Design	2nd	Electronics and Communications Engineering
30	EG251Career skills – I	2nd	English
31	MA204 Probability and Statistics	2nd	Mathematics
32	CS207 Computer Networks	2nd	Computer Science and Engineering
33	EG252Career Skills - II	2nd	English
34	EC207 Fundamental of Digital Signal Processing	3rd	Electronics and Communications Engineering
35	CS206 Operating systems	3rd	Computer Science and Engineering
36	MS101 Environmental Science	3rd	Management Studies
37	Presentation Skills - I	3rd	English
38	MS102 Professional and Business Ethics	3rd	Management Studies
39	CS205 Database Management System	3rd	Computer Science and Engineering
40	CS216 TCP/IP and Implementation	3rd	Computer Science and Engineering
41	CS273 DBMS Lab	3rd	Computer Science and Engineering
42	EG254Presentation Skills - II	3rd	English
43	MS103 Principles of Management	4th	Management Studies
44	CS212 Graphics and Multimedia	4th	Computer Science and Engineering

45	CS276 Graphics and Multimedia Lab	4th	Computer Science and Engineering

M.E (Cyber Security)

Sl.No	Subject Code and Subject Name	Department offering the course	Semester
1	MA1508 Mathematical Foundations for Cyber Security	Mathematics	I

M.E (Software Engineering)

Sl.No	Subject Code and Subject Name	Department offering the course	Semester
1	MA505 Mathematical Foundation for Computer Science	Mathematics	I
2	EC5A1 Digital Image Processing	Electronics and Communications Engineering	I

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

We have collaboration with several industries for conducting various training programs and courses for both staffs and students.

i) Collaboration with IBM for conducting DB2, RAD and RFT courses for faculties and students.

ii) Collaboration with Infosys for conducting Campus Connect Program to the faculties.

iii) Collaboration with ICTACT Academy for conducting training Programs to faculties and students

7. Details of programmes discontinued, if any, with reasons :

NA

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester wise university exams were conducted. The students can opt the electives present as they wish to. Choice based credit system is also followed which enables the students to choose electives from any discipline of the university.

9. Participation of the department in the courses offered by other departments :

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1	IT205- Microprocessors and Microcontrollers	3rd	Electrical and Instrumentation Engineering, Electronics and Communication Engineering
2	IT1275- Microprocessors and Microcontrollers Lab	3rd	Electrical and Instrumentation Engineering, Electronics and Communication Engineering
3	IT212-Data Structures and Algorithms	2nd	Electrical and Instrumentation Engineering,
4	IT1217-Fundamentals of Data Structures and Algorithms	2nd	Electronics and Communication Engineering
5	IT274- Data Structures and Algorithms Lab	2nd	Electrical and Instrumentation Engineering, Electronics and Communication Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors / Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	3	3
Associate Professors	3	3	3
Asst. Professors	6	6	6
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil students guided for last 4 years
Dr.R.S.Shaji	Ph.D	Professor	IT	16.3	12
Mr.A.R.Subra	M.S.C	Professor	IT	32.3	-

mania Iyer					
Dr.R.Mathu Soothana S.Kumar	Ph.D	Asso. Professor	IT	18.9	7
Dr.S.Maria Celestin Vigila	Ph.D	Asso. Professor	IT	18.9	4
Dr.S.Palani Kumar	Ph.D	Asso. Professor	IT	13.3	2
Dr.V.Mary Amala Bai	Ph.D	Asst. Professor	IT	12.1	-
Dr.S. Krishna Veni	Ph.D	Asst. Professor	IT	9.9	4
Ms.Y. Jeyasheela	M.E (Ph.D)	Asst. Professor	IT	8.11	-
Ms.T.Brindha	M.E (Ph.D)	Asst. Professor	IT	7.3	-
Ms.M.B. Jeyalekshmi	M.E (Ph.D)	Asst. Professor	IT	6.9	-
Dr.K. Sivasankar	Ph.D	Asst. Professor	IT	5.9	5

Faculty associated with Civil Department :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Philstudents guided for last 4 years
Dr.N. Sugitha	Ph.D	Asso. Professor	IT	14.9	-

Faculty associated with Aeronautical Department :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Philstudents guided for last 4 years
Mr.V. Sunil Anandh	M.E	Asst.Professor	IT	2	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : 1

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Philstudents guided for last 4 years
Dr.M.Sasikumar	Ph.D	Professor	IT	39.3	15

13. Percentage of classes taken by temporary faculty – programme-wise information :

NIL

14. Programme- wise Student Teacher Ratio :

Sl. No.	Name of the Programme	Student-Teacher ratio
UG programmes		
1	B.Tech(Information Technology)	15:1
PG programmes		
2	M.E(Software Engineering)	12:1
3	M.E(Cyber Security)	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

	Academic support staff	Administrative staff
Sanctioned	-	-
Filled	2	4
Actual	-	-

16. Research thrust areas as recognized by major funding agencies:

NIL

17. Number of faculty with ongoing projects from a)national b)international funding agencies and c)Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Name of the Funding Agency	Project Title	Grants Received
MOCIT	An optimized security framework for enabling better studies on cyber forensics, warfare & crime	Proposal submitted
DRDO	An Optimized Intrusion Detection and Prevention Scheme for enabling secured Communications in Defense Applications	Proposal submitted

18. Inter-institutional collaborative projects and associated grants received :-

Sl.No.	Name of the Organization	Date of Signing the MOU
1	IBM India (P) Ltd., Bangalore	December 16, 2010
2	Infosys Technologies Limited, Bangalore	March 10, 2011
3	ICTACT	May 19,2011

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Sl.No	Organisation	Title	Faculty Members	Status
1	DRDO	An optimized intrusion and prevention scheme for enabling secured communication in defence applications	R.S. Shaji	Proposal Submitted
2	AICTE (RPS)	Secure video conferencing using high performance Elliptic Curve Cryptography	S. Maria Celestin Vigila, S. Palani Kumar	Proposal Submitted
3	AICTE (RPS)	Fingerprint Based voting system	R.Mathusoothana S. Kumar K.Sivasankar	Proposal Submitted

4	AICTE (RPS)	Camera based robotic system for plant monitoring and processing in Agriculture	K.Sivasankar E.Sujaisundar	Proposal Submitted

20. Research facility/centre with:

1. Research centre for Anna university
2. E-Resources
   Sciencedirect
   IEEE
   ASME
   ASCE
3. MoU with the following universities

Sl.No.	Name of the University	Date of Signing the MOU
1	Liverpool John Moores University, United Kingdom	March 11, 2011
2	Providence University, Taiwan	March 24, 2011
3	University Teknologi Mara, Malaysia	December 8, 2011
4	University of Medicine and Dentistry of New Jersey, U.S.A	January 28, 2012
5	Doctors Academy, U.K	January 28, 2012
6	Indo-European Centre, Vistula University, Warsaw, Poland	January 28, 2012

21. Special Research Laboratories sponsored by / created by Industry or Corporate bodies :

Nil

22. Publications :

- Number of papers published in peer reviewed journals(National/International)
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International Database(For e.g. Web of Science,Scopus,Humanities International Complete,Dare Database-International Social Sciences Directory,EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR

- Impact Factor – range /Average
- h-index

The following table provides the details of the publications of faculty members of IT department during the period from 2009 to 2015.

Name of the Faculty	Name of the Journal (National / International)	No. of papers published	Year of publication	Listed in International Database	Citation index	SNIP	SJR	Impact Factor	h-index
Mr.R. Mathu soothana S. Kumar (05)	Journal of Emerging Technologies: Image Processing and Networking	01	2015	-	-	-	-	-	02
	International Journal of Soft Computing	01	2013	Scopus, EMBASE	-	-	.13	0.496	
	Journal of Computer Science and Technology	01	2013	Scopus, DBLP	02	-	.43	0.672	
	International Journal of Mathematical Sciences and Engineering	01	2012	-	-	-	-	-	
	Journal of Computer Science	01	2011	Scopus, EBSCO	06	-	.30	1.35	
Dr.R.S. Shaji (29)	International Arab Journal of Information Technology	01	2015	SCI & Scopus		-	-	-	
	International Journal of Digital	01	2015	Scopus		-	-	-	

	Crime and Forensics				87				06
	International Journal of Applied Engineering and Research	01	2014	Scopus		-	-	-	
	Journal of Emerging Technology in Web Intelligence	01	2014	Scopus		-	-	-	
	Image Processing and Networking	01	2014	-		-	-	-	
	International Journal of Computer Network and Information Security	02	2014 2013	-		-	-	-	
	Asian Journal of Information Technology	01	2013	Scopus		-	-	-	
	Research Journal of Applied Sciences, Engineering and Technology	02	2013 2014	SCI & Scopus		-	-	-	
	Journal of Emerging Technology in Web Intelligence	02	2013	Scopus		-	-	-	
	International Journal of Advanced And Innovative	01	2013	-		-	-	-	

	Research								
	International Journal of Engineering and Technology	02	2013	Scopus		-	-	-	
	International Journal of scientific and engineering research	01	2013	-		-	-	-	
	Archives Des Sciences(International)	01	2013	SCI Indexing		-	-	0.474	
	Elixir Computer Science and Engineering	01	2012	-		-	-	-	
	Journal Of Computing	02	2011 2010	-		-	-	-	
	International Journal of Advanced Networking and Application	01	2011	-		-	-	-	
	International Journal of Computer Engineering and Information Technology	01	2010	-		-	-	-	
	International Journal of Computer Science and Information Technologies	01	2010	-		-	-	-	
	International Journal of Scientific &	02	2011 2010	-		-	-	-	

	Engineering Research								
	ICTACT	01	2010	-		-	-	-	
	IJCSIT	01	2010	-		-	-	-	
	International Jounal on Computer Engineering & Information Techology	01	2010	-		-	-	-	
	International journal of next generation network	01	2010	-		-	-	-	
Dr.S. Maria Celestin Vigila (09)	Journal of Emerging Technologies	01	2015	-	33	-	-	-	02
	IET Information Security	01	2014	Scopus IET Digital		-	-	0.892	
	International Journal of Applied Engineering Research	01	2014	Scopus EBSCO		-	-	-	
	International Journal of Electronic Security and Digital Forensics	01	2013	Scopus, ACM Digital library		.82	0.11	-	
	International Journal of Network Security	01	2012	Scopus, EBSCO, DBLP		-	0.02	1.39	
	International Journal of Electronic Security and Digital Forensics	01	2012	Scopus, ACM Digital library		.82	0.11	-	
	Journal of	01	2011	-		-	-	0.24	

	Computing								
	International Journal of Image Processing and Network Techniques	01	2011	-		-	-	-	
	Universal Journal of Applied Computer Science and Technology (International)	01	2011	-		-	-	-	
Ms.N. Sugitha (02)	Signal Image and Video Processing	01	2013	Scopus	-	-	.296	0.56	-
	International review on computers and software	01	2013	Scopus	-	.48	.197	-	
Dr.S. Palani Kumar (04)	Imaging Science Journal	01	2012	Scopus	-	-	.072	0.575	-
	International Journal of Genetic Engineering	01	2012	EBSCO host	-	-	-	-	
	Asian biomedicine	01	2012	Scopus	-	-	.135	0.256	
	International Journal of Biomedical Engineering and Technology	01	2011	Scopus	-	-	0.16	0.374	
Dr.V. Mary Amala Bai (02)	European Journal of Scientific Research	01	2013	Scopus	-	-	.21	-	-
	Internationa	01	2013	Scopus	-	.4	.1	-	

	l review on Computers and Software					8	97		
Dr.S.H. Krishna Veni (02)	International Journal of Computer Application	01	2013	Scopus	-	.24	.071	.814	-
	American Journal of Applied Science(International)	01	2013	Scopus	-	.03	.078	1.4	
Ms. D.R. Denslin Braja (01)	International Journal of Research in Engineering and Bioscience	01	2014	-	-	-	-	-	-
Ms.T. Brindha (02)	International Arab Journal of Information Technology	01	2015	SCI & Scopus	-	-	-	-	-
	International Journal of Engineering and Technology	01	2013	Scopus	-	-	-	-	
Dr.K. Siva Sankar (09)	Australian Journal of basic and applied sciences	01	2015	-	-	-	-	-	-
	International Journal of Electronics and Communication Engineering	01	2015	-	-	-	-	-	
	LMCST Journal of Engineering and	01	2015	-	-	-	-	-	

	Technology								
	International Journal of Modern Trends in Engineering	01	2014	-	-	-	-	-	
	International Journal of Applied Engineering Research	01	2014	-	-	-	-	-	
	International Journal of Computer Science and Information Technologies	01	2014	-	-	-	-	-	
	International Journal on decision making in supply chain and logistics	01	2011	Scopus, EBSCO host	-	-	-	-	
	International Journal of computer science	01	2011	EBSCO host	-	-	-	0.242	
	International journal of Engineering Research and Technology	01	2013	EBSCO host	-	-	-	0.64	
Mr.R. Hubert Rajan (01)	International Journal for Computer Application	01	2012	-	-	-	-	0.814	-
Ms. S.V. Divya (05)	European Journal of Scientific Research	01	2013	Scopus	-	.49	.033	0.14	
	Research Journal of	01	2013 2014	SCI Indexing	-	-	-	-	

	Applied Sciences, Engineering and Technology			, Scopus					-
	Archives Des Science	01	2013	-	-	.08	.029	0.4	
	Internationl Journal of Engineering and Innovative Technology	01	2013	-	-	-	-	-	
	Coimbatore Institute of Information Technology Journal	01	2013	-	-	-	-	-	
Mr. Sunil Anandh (02)	International Journal of Emerging Engineering Applications and Bioscience	02	2015	-	-	-	-	-	-

Year	No. of Publications in Peer Reviewed Journals
2009	Nil
2010	08
2011	10
2012	08
2013	26
2014	11
2015	10

Total Number of papers published in peer reviewed journals: 73
Monographs : Nil
Chapters in Books : Nil
Edited in Books : Nil
Books with ISBN with details of publishers : Nil
Number Listed in International Database:

Scopus : 33
DBLP : 02
EBSCO host : 07

In summary, the faculty members of the Information Technology Department have published **73** research papers in peer-reviewed journals. Apart from the above publications, faculty members and students of the Information Technology Department continuously present their research findings at regional, national and international conferences and seminars.

23. Details of Patents and income generated :

Nil

24. Areas of consultancy and income generated :

Sl. No.	Name of the faculty member	Areas of consultancy carried out	Income generated (Rs)
1	Dr.K.Sivasankar	Developing Billing and data maintaining Software(Jeyam marbles)	4500
2	Dr.R.S.Shaji	Developing websites and advertisement videos(Jeyam marbles)	5500
3	Ms.V.Sunil Anandh	Developing websites and advertisement videos(Digital computers)	4000
4	Dr.R.Mathusoothana S.Kumar	Hard disk recovery(Cyber forensic Software) (Digital computers)	6000

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Faculty Name	Industry Visited	Place	Date
Ms. K.J. Karpagam Mr. E. Sujai Sundar Mr. R. Hubert Rajan	IBS Software Services	Technopark, Trivandrum	20th April 2012
Mr. E. Sujai Sundar Mr. R. Hubert Rajan	Smart Logix Technologies	Cochin	7th March 2011

Ms. D.R.DenslinBraja Ms. K.J.Karpagam Mr.K. Siva Sankar Mr. E.Sujai Sundar	ESPL Software Solutions	Technopark, Trivandrum	17th Sep 2010
Ms.S. Maria Celestin Vigila Ms. N. Sugitha Mr.K. Siva Sankar Mr. R. Hubert Rajan	ESPL Software Technologies Pvt. Ltd	Technopark, Trivandrum	19th Oct 2010
Mr.V.Sunil Anandh Mr. E. Sujai Sundar Mr.M.Bharathi kannan	CDAC	Trivandrum	11 to 13 Sep 2013

26. Faculty serving in :

a) National committees
b) International committees
c) Editorial Boards
d) any other (please specify)

Faculty members have been honoured by being nominated as peer reviewers of technical papers for reputed journals, keynote speakers, session chairpersons or invited speakers at many of the national and international symposia and conferences. Some of the prominent ones are:

Faculty Member	Key Committees
Dr. R.S.Shaji	**1. Journal Reviewer** • Advances in engineering software • Journal of the chinese institute of engineers • British journal of education, society and behavioural sciences • Neural Computing and Applications, Springer. • Eurasip journal on Wireless Communications and Networking. • Separation Science and Technology, Taylor and Francis. • International Journal of information and computer security, inderscience Publishers. • Journal of Engineering and Computer Innovation, Academic Journals Publications. • Educational Research and Reviews. • International Scholars Journals. • Kerala State council for science, technology and environment (KSCSTE).

	2. Conference Reviewer & Chair Person • **Reviewer and Chair Person** for the IEEE Sponsored International Conference ICAEAS 2015, Noorul Islam Univeristy • **Reviewer and Chair Person** for the IEEE Sponsored International Conference ICCPCT 2015, Noorul Islam University • **Reviewer and Chair Person** for the Springer Sponsored International Conference ICSCS 2015, Noorul Islam University • **Reviewer and Chair Person** for the IEEE Sponsored Conference ICBDM-2015, Noorul Islam University. • **Reviewer and Chair Person** for the National Conference ACEW-15, TKM Institute of Technology, Kollam. • **Reviewer and Chair Person** for the IEEE sponsored International conference ICBDM-2014, Noorul Islam University. • **Reviewer and Chair Person** for the Advances in Electronics and Computers world, TKM College of Technology, 2015. • **Reviewer and Chair Person** for the NATCOM-14, TKM college of Technology, Kollam. • **Reviewer and Chair Person** for the ICCTRD-14, SCAD college of Engineering, Tirunelveli. • **Reviewer and Chair Person** for the EMICS-14, Maria College of Engineering and Technology. • **Reviewer and Chair Person** for the National conference by EEE department, CAPE institute of technology, 2014. • **Reviewer** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", April, 2014, to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", to be conducted by the Department of EEE,

	Noorul Islam University. • **Reviewer and Chair Person** for the IEEE Conference, "International conference on Information and communication Technology, ICT-2013", conducted by the Department of ECE, Noorul Islam University. • **Reviewer and Chair Person** for the IEEE Conference, "International Conference on Circuit, Power and Computing Technologies, ICCTPCT-2013", conducted by the Department of EEE. • **Reviewer and Chairperson** for the IEEE conference, "International Conference on Green Computing at St.Xavier's Catholic College of Engineering, (ICGHPC2013)". • **Reviewer and Chairperson** for IEEE Conference, "International Conference on Applied Mathematics and Theoretical Computer Science (ICAMTCS 2013)". sponsored by SXCCE. • **Chairperson** for IEEE International Conference at Noorul Islam University conducted by the Department of EEE on 2012. • **Chairperson** for IEEE International Conference at Noorul Islam University conducted by the Department of Mechanical on 2012. • **Reviewer and Technical Committee member** for IEEE Conference 2011 conducted by EEE at St.Xavier's Catholic college of engineering, Nagercoil. • **Reviewer and Technical Committee member** for IEEE Conference 2010 conducted by EEE at St.Xavier's Catholic college of engineering, Nagercoil. • **Reviewer and Judge** for 25th Science Congress Publications at Trivandrum, 2013 at Kerala State Council for Science, technology and Environment. • **Reviewer and Technical committee member** for National Conference by CSE "National conference on Advanced technology in Computer Science" ICCTRD-13 at Thangal Kunju Musaliar Institute of Technology,

	Kollam. • **Reviewer and Technical Committee member** for International Conference by CSE "international Conference on Computing terminologies and research development" ICCTRD-13 at SCAD College of engineering and technology, Tirunelveli. • **Reviewer and Technical Committee member** for the National Conference 2013 conducted by IT Department at St.Xavier's Catholic college of engineering, Nagercoil. • **Chairperson** for National Conference on "Advanced Computing Technologies, 2013", at Maria College of Engineering and Technology, Kanyakumari Dist. • **Reviewer and Chairperson** for national Conference on Computer Engineering and Technology 2012 (NCCET '12) sponsored by ICTACT at Marthandom College of Engineering and Technology, Marthandom. • **Chairperson** for national Conference on "Advanced technologies in computing systems, 2009" at Francis Xavier College of Engineering and Technology, Tirunelveli. • **Technical committee member** for a workshop on "soft computing tools in signal processing and image processing 2012", at St. Xavier's Catholic College of Engineering. **3. Resource Person** • Invited Talk on UGC sponsored programme on "E-Waste Management", at Government Arts and Science College, Nedumangad, Trivandrum, 2014. • Keynote Address on UGC sponsored programme on "Pervasive Networks (Customizing and integrating the available network technologies for enabling communication under Pervasive environment)" at Mohandas College of Engineering and Technology, Nedumankad for National Conference on Advances in Computing and Computer Applications ADCAP '12. • Invited Talk at Mariagiri College of Arts and

	Science, Kanyakumari in the topic "Pervasive Networks (Enabling the Mobile Technologies for Developing Real Time Pervasive Scenarios)" on March, 2013. • AICTE sponsored Faculty Development Programme in the topic "Multimedia Security" at Noorul Islam College of Engineering on 2007.
Dr. R. Mathusoothana S. Kumar	**1. Journal Reviewer** • IET Image Processing • Journal of Convergence Information Technology • IET Biometrics • International Journal of Software Engineering, Technology and Applications **2. Conference Reviewer** • **Reviewer and Chairperson** for IEEE International Conference on Circuit, Power and Computing Technologies, ICCTPCT-2015", conducted by EEE Department, Noorul Islam University. • **Chairperson** for Springer International Conference on Soft Computing Systems, ICSCS-2015", conducted by EEE Department, Noorul Islam University. • **Chairperson** for Global Conference on Communication Technologies, GCCT-2015", conducted by ECE Department, Noorul Islam University. • **Chairperson** for IEEE International Conference on Control Instrumentation Communication and Computational Technologies ICCICCT- 2014, conducted by EIE Department, Noorul Islam University. • **Reviewer** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", April, 2014, conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Circuit, power

	and computing technologies, March, 2014", conducted by the Department of EEE, Noorul Islam University. • **Reviewer and chairperson** for the International Conference, "International conference on modeling, optimization and computing ICMOC2014", conducted by the Department of Mechanical Engineering, Noorul Islam University. • **Reviewer** for the "International Conference on Circuit, Power and Computing Technologies, ICCTPCT-2013", (IEEE) conducted by EEE Department. **3. Resource Person** • Invited Talk on "Information Coding" AICTE sponsored Faculty Development Programme in the topic "Multimedia Communication Security" at Noorul Islam College of Engineering on 17th to 22nd May 2004. • One day Seminar on "Information Theory and Coding", Jaya Engineering College, Trichy, March 2005.
Dr. S. Maria Celestin Vigila	**1. Guest Editor** • Sino-American Scholars Online academic society, special issue on Computer Security and Cryptography **2. Journal Reviewer** • IET Information Security • International Journal of Enterprise Network Management • Journal of Convergence Information Technology • International Journal of Network Security • IET Signal Processing • Wireless Personal Communications • International Journal of Sensor Networks **3. Conference Reviewer & Chair Person** • **Chair Person** for the IEEE Conference,

	"Global Conference on Communication Technologies, GCCT-2015", conducted by ECE Department, Noorul Islam University. • **Chair Person** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", 20th and 21th April, 2015, conducted by the Department of EEE, Noorul Islam University. • **Reviewer and Chair Person** for the IEEE Conference, "International conference on Circuit, power and computing technologies, 19th and 20th March, 2015", conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Control, Instrumentation, Communication and Computational Technologies, 10th and 11th July, 2014", conducted by the Department of EIE, Noorul Islam University. • **Chair Person** in Technical Session, "Third International Conference on Computing and Communication Technology", organized by Department of Computer Science and Engineering, Immanuel Arasar JJ College of Engineering, Nattalam, 22nd and 23rd January 2014. • **Reviewer** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", April, 2014, to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer and CoChair Person** for the IEEE Conference, "International Conference on Information and Communication Technologies (ICT-2013)" organized by Department of Electronics and Communication Engineering, Noorul Islam University, Kumaracoil in

	Collaboration with IEEE India Council. • **CoChair Person** in Technical Session – Genetics for "International Conference on Modeling, Optimization and Computing (ICMOC-2012)" organized by Department of Mechanical Engineering, Noorul Islam University, Kumaracoil in Collaboration with The University of Sheffield. UK, Elsevier and Indian National Science Academy.
Dr. N. Sugitha	**1. Journal Reviewer** • IET Image Processing (July 2012)
Dr. S.Palani kumar	**1. Conference Reviewer** • **Chair Person** for the International Conference, "Emerging Technologies in Computing Control and Networking", conducted by the Department of ECE, Arunachala College of Engineering for Women, 27th March, 2015. • **Chair Person** for the IEEE Conference, "International conference on recent advances in Engineering, Science and technology, conducted by the Department of BME, Noorul Islam University, 17th April, 2015.
Dr. V. Mary Amala Bai	**1. Conference Reviewer** • **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", to be conducted by the Department of EEE, Noorul Islam University.
Dr.S.H. Krishna Veni	**1. Conference Reviewer** • **Reviewer and Chair Person** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", 20th and 21th April, 2015, conducted by the Department of EEE, Noorul Islam University. • **Reviewer and Chair Person** for the IEEE Conference, "International conference on Circuit, power and computing technologies,

	19th and 20th March, 2015", conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Control, Instrumentation, Communication and Computational Technologies, 10th and 11th July, 2014", conducted by the Department of EIE, Noorul Islam University. • **Reviewer** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", April, 2014, conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", conducted by the Department of EEE, Noorul Islam University.
Prof. D.R. Denslin Braja	**1. Conference Reviewer** • **Reviewer** for the IEEE Conference, "International Conference on Information and Communication Technologies (ICT-2013)" organized by Department of Electronics and Communication Engineering, Noorul Islam University, Kumaracoil in Collaboration with IEEE India Council.
Dr. K. Siva Sankar	**1. Conference Reviewer & Chair Person** • **Reviewer and Chair Person** for the IEEE Conference, "International conference on Circuit, power and computing technologies, 19th - 20th of March 2015", to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer and Chair Person** for the International Conference, "International conference on Recent Advances in Engineering, Science & Technology (ICON'15)", 17th of April 2015", to be conducted by the Department of BME, Noorul Islam University.

	• **Reviewer and Chair Person** for the Springer Sponsored International Conference, "International Conference on Soft Computing Systems (ICSCS 2015)", 20th & 21st April 2015 to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer and Chair Person** for the IEEE Conference, "International Conference on Emerging Trends in Engineering, Business and Disaster Management" [ICBDM 2015] to be held on 27 & 28th February 2015, to be conducted by the Department of MBA, Noorul Islam University. • **Chair Person** in Technical Session - Fourth International Conference on Computing and Communication Technology organized by Department of Computer Science and Engineering, Immanuel Arasar JJ College of Engineering, Nattalam, 22nd and 23rd January 2015. • **Chair Person** in Technical Session - Third International Conference on Computing and Communication Technology organized by Department of Computer Science and Engineering, Immanuel Arasar JJ College of Engineering, Nattalam, 22nd and 23rd January 2014. • **Reviewer** for the Springer Sponsored International Conference, "International conference Artificial intelligence and evolutionary algorithms in engineering systems", April, 2014, to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies, March, 2014", to be conducted by the Department of EEE, Noorul Islam University. • **Reviewer** for the IEEE Conference, "International Conference on Information and Communication Technologies (ICT-2013)" organized by Department of Electronics and Communication Engineering, Noorul Islam University, Kumaracoil in Collaboration with IEEE India Council.

	• **Reviewer** for the IEEE Conference, "International conference on Circuit, power and computing technologies(ICCPCT-2013)", conducted by the Department of EEE, Noorul Islam University.
Prof. T.V.Sindia	**1. Conference Reviewer** • **Reviewer** for the IEEE Conference, "International Conference on Information and Communication Technologies (ICT-2013)" organized by Department of Electronics and Communication Engineering, Noorul Islam University, Kumaracoil in Collaboration with IEEE India Council.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Title	Workshop / Training Programs/ Seminar	Organized	Date, month & Year	Faculties participated
Cyber security and Cyber Forensics	Workshop	Noorul Islam University	31st of May 2015	Prof.A.R.Subramonia Iyer, Dr.R.S.Shaji, Dr.R.Mathusoothana S. Kumar, Dr. S. Maria Celestin Vigila, Ms. N.Sugitha, Dr. Palani Kumar, Ms. V.MaryAmala Bai, Dr. S.H.Krishnaveni, Ms. D.R.DenslinBraja, Ms. Y. JeyaSheela, Ms T.Brindha, Ms. K.J.Karpagam, Dr.K. Siva Sankar, Ms. T.V.Sindia, , Ms. .S.V.Divya, V.Sunil Anandh

Training in Counseling	Workshop	Noorul Islam University	17th to 20th September 2014	Dr.R.Mathusoothana S. Kumar V.Sunil Anandh
New Generation of business computing through cloud computing	Workshop	Noorul Islam University in association with IET	28th and 29th of March 2014	Prof.A.R.Subramonia Iyer, Dr.R.S.Shaji, Dr.R.Mathusoothana S. Kumar, Dr. S. Maria Celestin Vigila, Ms. N.Sugitha, Dr. Palani Kumar, Ms. V.MaryAmala Bai, Dr. S.H.Krishnaveni, Ms. D.R.DenslinBraja, Ms. Y. JeyaSheela, Ms T.Brindha, Ms. K.J.Karpagam, Dr. K. Siva Sankar, Ms. T.V.Sindia, Ms. S.V.Divya, Mr. V.Sunil Anandh
Mobile Computing	Training Program	Infosys Campus Connect, Trivandrum at Noorul Islam University	12th July 2013	Ms.S. MariaCelestin Vigila, Ms.T.V.Sindia Ms.S.V.Divya
Research Methodolgy	Workshop	Board of Research Development and consultancy	20th Dec 2012	Ms T.Brindha, Ms. T.V.Sindia, Mrs.S.V.Divya
Aakash for Education	ISTE Workshop	IIT Bombay at Noorul Islam University.	10th and 11th Nov 2012	Ms. D.R.DenslinBraja, MsT.Brindha, Ms.S.V.Divya, Ms.S.Maria Celestin Vigila, Ms. N.Sugitha

Rational Functional Testing	Training Program	IBM at Noorul Islam University	15th to 17th Sep 2012	Ms.N.Sugitha, Ms. S.H.Krishnaveni
Research Project Writing	Workshop	Noorul Islam University	21st Aug 2012	MsT.Brindha, Ms.S.V.Divya
SkillEdge – OOPs using C++	Training program	ICT Academy of Tamil Nadu at PET Engineering College	13th and 15th June 2011	Ms. Y.Jeya Sheela, Ms. K.J.Karpagam
SkillEdge – Data Structures using C	Training program	ICT Academy of Tamil Nadu at Vickram College of Engineering	10th and 12th June 2011	Ms.D.R.Denslin Braja
Infosys foundation program	Workshop	Noorul Islam University.	7th june 2011	Mr. Mathusoothana S. Kumar
Software Skills	FTP	Infosys Campus Connect,Trivandrum	23rd to 27th May 2011	Ms.V.Mary Amala Bai
Rapid Application Development	Training Program	IBM at Noorul Islam University	1st to 4th of Apr 2011	MsT.Brindha, Mrs.S.V.Divya
Latex	Workshop	Noorul Islam University.	15th and 16th Dec 2010	Ms. S. MariaCelestin Vigila, Ms. N.Sugitha, Mr.K. Siva Sankar, Mr.R.Hubert Rajan
Data Warehousing and Mining	Workshop	Noorul Islam University	29th October 2010	Mr. R.Mathusoothana S. Kumar Ms. S. Maria Celestin Vigila, Ms. N.Sugitha, Mr. Palani Kumar, Ms. V.MaryAmala

				Bai, Ms. S.H.Krishnaveni, Ms. D.R.DenslinBraja, Ms. Y. JeyaSheela, Ms T.Brindha, Ms. K.J.Karpagam, Mr.K. Siva Sankar, Ms. T.V.Sindia, Ms. S.V.Divya.
Research methodology & statistical package	Workshop	Noorul Islam University	16th – 18th Sep 2010	Mr.R.Hubert Rajan
DB2	Training Program	IBM at Noorul Islam University	21th – 27th July 2010	Ms. T.V.Sindia, Mr. E.Sujai Sundar,
.NET Programming	FDP	ICT Academy of Tamil Nadu at Noorul Islam University.	29th May to 5th June 2010	Ms. S. Maria Celestin Vigila, Ms. T.V.Sindia
Fuzzy Logic and Neural Networks	Workshop	Noorul Islam University	11th and 12th of Mar 2010	Mr. R.Mathusoothana S. Kumar Ms. S. Maria Celestin Vigila, Ms. N.Sugitha, Mr. Palani Kumar, Ms. V.MaryAmala Bai, Ms. S.H.Krishnaveni, Ms. D.R.DenslinBraja, Ms. Y. JeyaSheela, Ms T.Brindha, Ms. K.J.Karpagam, Mr.K. Siva Sankar, Ms. T.V.Sindia, Ms. S.V.Divya.

Software Testing and Quality Assurance	Workshop	Noorul Islam University	5th and 6th of Mar 2010	Mr. R.Mathusoothana S. Kumar Ms. S. Maria Celestin Vigila, Ms. N.Sugitha, Mr. Palani Kumar, Ms. V.MaryAmala Bai, Ms. S.H.Krishnaveni, Ms. D.R.DenslinBraja, Ms. Y. JeyaSheela, Ms T.Brindha, Ms. K.J.Karpagam, Mr.K. Siva Sankar, Ms. T.V.Sindia, Ms. .S.V.Divya
Faculty Developmen t Program	FDP	Noorul Islam University	4th to 13th Jan 2010	Mr.K. Siva Sankar, Ms. T.V.Sindia, Mr. E.Sujai Sundar, Mr.R.Hubert Rajan, Mrs.S.V.Divya

Faculties attended in other colleges:

Title	Seminar/ Workshop	Organized	Date, month & Year	Faculties participated
Foundation Program 3.1	Faculty Enablement Program 3.1	Infosys Limited at TocH Institute of Science and Technology	17th to 21st June 2013	Ms. D.R.Denslin Braja
Research issues in web mining	Seminar	MEPCO	15th and 16th Feb 2012	Ms. V.MaryAmalaBai

Faculty Development Program	FDP	Infosys	25th to 29th June 2012	Ms. M.B.Jayalekshmi
Cloud computing	Workshop	TKM Institute of Technology	26th July 2012	Ms T.Brindha, Mr.S.V.Divya
Wavelet Transforms and its applications	Workshop	MEPCO	4th and 5th Feb 2011	Mr. MathuSoothana S. Kumar, Ms. N.Sugitha
Wireless networks and security	Workshop	MEPCO	8th and 9th March 2011	Ms. S. MariaCelestin Vigila
Research issues in bio informatics and pattern recognition	Seminar	Einstien college of Engineering	18th and 19th Aug 2011	Ms. V.MaryAmalaBai
Certificate in Java Programming	FDP	MACET	10th to 17th Dec 2011	Ms. M.B.Jayalekshmi
Soft computing Techniques	Workshop	MEPCO	11th and 12th Feb 2010	Mr. MathuSoothana S. Kumar
J2EE and Best Practices in Application Development	FDP	Government engineering college Tirunelveli	25th & 26th Feb 2010	Mr.R.Hubert Rajan
Network security research issues and challenges	Seminar	Mepco	17th -18th May 2010	Ms. S. Maria Celestin Vigila
Image processing with Practical Applications	STTP	Mar Basclios College of Engg. And Tech	14th to 18th June 2010	Ms. N.Sugitha

J2EE and Best Practices	FTP	Francis Xavier college of Engineering	23rd to 30th Aug 2010	Mr. E.Sujai Sundar
Training Program for J2EE and Best Practices in Application Development	FDP	Francis Xavier college of engineering	23rd to 30th Aug 2010	Mr.R.Hubert Rajan
Life skilled Development	Workshop	Dr.M.G.R. University	19th Sep 2010	Mr. MathuSoothana S. Kumar
Free open source software	Workshop	MEPCO	29th and 30th Sep 2010	Ms. S. MariaCelestin Vigila

28. Student Project

In-House Projects including Inter-Departmental Projects

Sl.No	Year	Course	Project	Percentage
1	2014-2015	UG	Mini Project	100
			Final Project	100
		PG	Final Project	100
2	2013-2014	UG	Mini Project	100
			Final Project	100
		PG	Final Project	100
3	2012-2013	UG	Mini Project	100
			Final Project	100
		PG	Final Project	100
4	2011-2012	UG	Mini Project	100
			Final Project	100
		PG	Final Project	100

5	2010-2011	UG	Mini Project	100
			Final Project	100
		PG	Final Project	100

29. Awards

- **Faculty**

Sl.NO	Year	Awards	
		International	National
1	2012-2013	1. Prof. R. Mathusoothana S. Kumar IET - MEN Engineers Award(2012) 2. Prof. S. Maria Celestin Vigila IET – WOMEN Engineers Award(2012)	-

- **Doctoral / Post Doctoral Fellows**

  Nil

- **Students**

Sl.NO	Year	Awards			
		UG		PG	
		International	National	International	National
1	2014-2015	-	9	5	-
2	2013-2014	-	2	4	-
3	2012-2013	1	10	-	1
4	2011-2012	7	17	-	-
5	2010-2011	-	37	-	-

30. Seminars / Conferences / Workshops Organized :

Sl.No	Seminars / Conferences / Workshops	Date	Representative	Title
1	CSCF'15 (National Level Workshop)	31.03.15	Mr. C Balan Joint Director, Cyber Forensics Section,	Cyber Security and Cyber Forensics

			C-DAC, Thiruvananthapuram Mr. Ajith Ravindran, Project Engineer, Cyber Forensics Section, C-DAC, Thiruvananthapuram	
2	ZEPHYR 2k15 (National Level Technical Symposium)	30.03.15	Mr.Saravanan Principal Architech Jeevan Technologies Chennai	Paper Presentation, Qiuz, Visualization, Gaming.
3	NEWGBCC'14 (National Level Workshop)	28.03.14 & 29.3.14	Mr. Bebin Suresh C Mainframe & Environment QA– Practice Head, Wipro Technologies, Bangalore. Mr. Muthuvel General Manager – Software Development, Netree E- Services Pvt. Ltd., Chennai.	New Generation of Business Computing through Cloud
4	Guest Lecturer	21.1.15	Mr.R.Abilash Software Engineer Network Systems Nagercoil Tamil Nadu	Tech Pro Online Certificate
5	Guest Lecturer	27.9.13	Mr.P.Siva Rama Krishnan, Public Relation Officer, HiTech Solutions, VeppamooduJn, Nagercoil	IEEE Project Preparation
6	EROTEX'12	15.03.12	Mr.Franklin Jose,	Paper

	(National Level Technical Symposium)		HR & Admin Manager , iDynamics Ltd, Technopark, Trivandurm	Presentation, Qiuz,Fun events, Debugging,Craz y Gatgets.
7	Guest Lecturer	19.01.12	Lawrence Mohanraj, Regional Manager, IBM-Acadamic Initiative, India.	IBM-Acadamic Initiative.
8	Placement Training	07.09.11	J.Krishnan, Senior Manager-Training, RIPE	Interview Headline, Biodata Preparation, Group Discussion, Aptitude, Reasoning Ability, Verbal Ability.
9	FENESTRA'11 (National Level Technical Symposium)	24.03.11	Mr.Kandha Kumar, Technology Lead, Infosys Technology, Chennai.	Paper Presentation, Quiz, Fun events, Debugging.
10	DATTEZ'10(Nationa l Level Workshop)	29.10.10	Mr.Arul Rajan, NRRS Pvt Ltd, Nagercoil.	Data Warehousing and Mining.
11	Guest Lecturer	17.08.10	Aparna.D, Executive-Institutional Relations, 153, Santhome High Road, Chennai.	Create your own computer game

31. Code of Ethics :

The Code sets forth the ethical principles and standards that govern the professional work of education researchers. The Code of Ethics replaces the Ethical Standards, which were adopted in 1999 and have been only minimally modified since that time. The current Code is intended to provide guidance that informs and is helpful to education researchers in their research, teaching, service, and related professional work.

32. Student profile programme-wise:

Name of the programme	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
B.Tech IT	2013-2014	18	3	5	-	-
	2012-2013	41	10	4	-	-
	2011-2012	66	9	6	-	-
	2010-2011	47	13	2	84.6	100
	2009-2010	64	17	14	88	100
M.E Software Engineering	2012-2013	14	2	2	100	100
	2011-2012	37	7	9	100	100
	2010-2011	36	6	21	100	100
	2009-2010	78	8	23	100	100
M.E Cyber Security	2013-2014	15	4	2	100	100
	2014-2015	17	2	4	-	-

33. Diversity of students :

Name of the course	Year	% of students from other colleges	% of students from the same university	% of students from Universities with in the state	% of students from the university of other states
M.E Software Engineering	2012-2013	**100**	-	-	-
	2011-2012	**100**	-	-	-
	2010-2011	**100**	-	-	-
M.E Cyber security	2013-2014	**67**	**33**	-	-
	2014-2015	**100**	-	-	-

34. GATE

Year	No.of students
2012-2013	4
2011-2012	4
2010-2011	2

CAT

Year	No.of students
2010-2011	1

35. Student Progression :

2013-2014

Student progression	Percentage against enrolled
UG to PG	13.33%
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil 26.6%

2012-2013

Student progression	Percentage against enrolled
UG to PG	16.12%
PG to Ph.D	6%
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 16% 21%

2011-2012

Student progression	Percentage against enrolled
UG to PG	7%

PG to Ph.D	3%
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 63.3% 7%

2010-2011

Student progression	Percentage against enrolled
UG to PG	8%
PG to Ph.D	6%
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 19.4% 13.4%

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	26.3%
from other universities within the State	68.4%
from universities from other States	5.2%
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Sl.No	Name of the Faculty	University	Month and Awarded Year	Programme
1	Dr.V.Mary Amala Bai	Anna University,Chennai	July-2015	Ph.D
2	Dr.N.Sugitha	Anna University,Chennai	May-2015	Ph.D
3	Dr.R.MathuSoothana. S.Kumar	Anna University,Chennai	May 2014	Ph.D
4	Dr.S.Palanikumar	Anna University,Chennai	Nov-2013	Ph.D
5	Dr.S.Maria Celestin Vigila	Anna University,Chennai	Oct-2013	Ph.D

6	Dr.S.H.Krishnaveni	M.S University	Aug-2013	Ph.D
7	Dr.K.Sivasankar	M.S University	Dec-2012	Ph.D
8	Dr.R.S.Shaji	M.S University	Feb-2012	Ph.D

38. Present details of departmental infrastructural facilities with regard to

a) Library

The department has a well furnished library. The details of the library are given below:

Sl.No	Items	Count
1	Books in Department library	1077
2	IET Magazines	5
3	Journals	Nil
4	Project Reports	555
5	CD's	50
6	Question papers	16
7	Solved questions & answer book	13

b) Internet facilities for staff and students

The faculties and the students were provided internet connectivity by means of MKN project from BSNL with a speed of 1 GBPS which they can access the resources.

c) Total number of class rooms

There are 6 class rooms in our department.

c) Class rooms with ICT facility

In the last five years, many faculties have developed ICT enabled course material for the subjects taught by them. Most of the departments are equipped with audio-visual teaching aids which are also used to teach students. Learner centric activities, like participatory learning, interactive sessions, student seminars, case studies, project work, assignments, problem solving exercises, and practical – field work are rigorously implemented. Real time interactive EDUSAT programs were used for the benefit of the students. Moreover, all the classrooms are provided with LCP projectors. Moreover, we have a smart room equipped with all ICT facilities.

d) Students' laboratories

The students are provided with 3 laboratories.

f) Research laboratories

There are 3 well-established labs with a total count of 117 systems. The students are motivated to submit their innovative ideas as projects and papers in various National and International level contest. Moreover, the students submit their research work to the department in the form of project reports. Individual systems were given to students and faculties and all the systems were provided with a Wi-Fi connectivity from BSNL (MKN project)with a speed of 1 GBPS so that the faculties can use these facility for their research work and update themselves with latest trends and ideas on all times.

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

b) from other institutions/universities

Faculty who completed Ph.D from other University

Sl.No	Name of the Faculty	University	Month and Awarded Year	Programme
1	Dr.V.Mary Amala Bai	Anna University, Chennai	July 2015	Ph.D
2	Dr.N.Sugitha	Anna University, Chennai	May 2015	Ph.D
3	Dr.R.Mathusoothana.S.Kumar	Anna University, Chennai	May 2014	Ph.D
4	Dr.S.Palanikumar	Anna University, Chennai	Nov-2013	Ph.D
5	Dr.S.Maria Celestin Vigila	Anna University, Chennai	Oct-2013	Ph.D
6	Dr.S.H.Krishnaveni	M.S University, Tvl	Aug-2013	Ph.D
7	Dr.R.S.Shaji	M.S University, Tvl	Feb-2012	Ph.D
8	Dr.K.Sivasankar	M.S University, Tvl	Dec-2012	Ph.D

9	Dr.J.Jeya.A.Celin	M.S University, Tvl	2008	Ph.D
10	Dr.M.Sasi Kumar	IIT, Madras	1984	PH.D

Faculty (Part-time) who are pursuing Ph.D from Host Institution

Sl.No	Name of the Faculty	Year & University	Programme
1	Ms.Y.JeyaSheela	June 2014-N.I University	Ph.D
2	Ms.M.B.Jeyalekshmi	June 2014-N.I University	Ph.D
3	Ms.D.R.Denslin Braja	June2013-N.I University	Ph.D
4	Ms.T.V.Sindia	June 2012-N.I University	Ph.D
5	Ms.T.Brindha	June 2012-N.I University	Ph.D
6	Ms.S.V.Divya	June 2012-N.I University	Ph.D
7	Mr.E.Sujai Sundar	Jan 2011-N.I University	Ph.D
8	Mr.R.Hubert Rajan	June 2010-N.I University	Ph.D

Full-Time Research Scholars

Sl.No	Name of the Faculty	Year & University	Programme
1	R.A.Karthika	2012,N.I University	Ph.D
2	Ms.F.R.Shiny Malar	2011,N.I University	Ph.D

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

Yes, Assessment exercise is a continuous process undertaken before revision/design of new programmes. The programme committee obtains feedback from students and staffs on curriculum and discusses the problems concerning curricula, syllabi. The Chairperson will prepare the minutes of every meeting, submit the same to the HOD within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any suggestions they are made as recommendations to BOS.

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, feedback from faculty on curriculum as well as teaching-learning-evaluation is utilized for revision of syllabus and teaching-learning process.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, the department obtain feedback from students on staff in each semester .The head of the department analyze the feedback and will discuss the strength and weakness with the concerned staffs. The programme committee was also conducted to obtain feedback from students on curriculum and discusses the problems concerning curricula, syllabi. The suggestions if any are made as recommendations to BOS.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes, the feedback collected from alumini and employers are reviewed and the same will be used for curriculum revision.

43. List the distinguished alumni of the department (maximum 10):

Sl.No	Name/Company Name	Batch
1	Abdul Basith.N.K, Wipro	2008-2012
2	Anand.G,Wipro	2008-2012
3	Bright.T,TCS	2008-2012
4	Petchi Rani,TCS	2008-2012
5	B.Ganesh , TCS	2007-2011
6	V.Krishna Praveen,TCS	2007-2011
7	Mohammed Ejaz,TCS	2006-2010
8	Radhika Ramdhas, CTS	2006-2010
9	Suderson Armstrong ,CTS	2005-2009
10	Sahaya kamali queincy ,HCL	2005-2009
11	Devi Vinodha , TCS	2004-2008
12	Movina.R.Ayoob / HCL Technologies	2011-2015
13	Aparna Rajam / IDBI Bank	2011-2015

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Sl.No	Program	Date	External Experts	Area of Specialization
1	Guest Lecturer	17.08.10	Aparna.D, Executive-Institutional	Create your own computer game

			Relations, 153, Santhome High Road, Chennai.	
2	DATTEZ'11 (National Level Workshop)	29.10.10	Mr.Arul Rajan, NRRS Pvt Ltd, Nagercoil.	Data Warehousing and Mining.
3	FENESTRA'11 (National Level Technical Symposium)	24.03.11	Mr.Kandha Kumar, Technology Lead, Infosys Technology, Chennai.	Paper Presentation, Quiz, Fun events, Debugging.
4	Guest Lecturer	19.01.12	Lawrence Mohanraj, Regional Manager, IBM-Acadamic Initiative, India.	IBM-Acadamic Initiative.
5	Placement Training	07.09.11	J.Krishnan, Senior Manager-Training, RIPE	Interview Headline, Biodata Preparation, Group Discussion, Aptitude, Reasoning Ability, Verbal Ability.
6	EROTEX'12 (National Level Technical Symposium)	15.03.12	Mr.Franklin Jose, HR & Admin Manager , iDynamics Ltd, Technopark, Trivandurm	Paper Presentation, Qiuz, Fun events, Debugging, Crazy Gatgets.
7	WorkShop (NEWGBCC'14)	28.3.14 & 29.3.14	Mr.C.Bebin Suresh, Mainframe& Environment QA-Pracitce Head WiproTechnologies Bangalore Mr.Muthuvel, General Manger-Software Development Netree.E-Services Pvt Ltd,Chennai	Cloud Computing

8	ZEPHYR'15 (National level Technical Symposium)	30th March 2015	Mr.Saravanan Principal Architech Jeevan Technologies Chennai	Paper Presentation,Qiuz, Visualization,Gaming .
9	CSCF'15 Workshop	31st March 2015	Mr.C.Balan Joint Director CyberForensics section C-DAC,Trivandrum Mr.Ajith Ravindran Project Engineer CyberForensics section C-DAC,Trivandrum	Cyber Security and Cyber Forensics

45. List the teaching methods adopted by the faculty for different programmes :

- Traditional chalk & talk method
- ICT enabled teaching
- Industrial Visit for real time learning
- Practical Classes
- Group Discussions
- Problem solving sessions
- OHP

46. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Programme objectives are constantly met by upgrading the syllabus according to present day need. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedbacks, class committee meeting, programme committee meeting.

47. Highlight the participation of students and faculty in extension activities:

- Many students periodically participate in the technical and sports activities conducted by the University as well as by other colleges.
- Students and faculty members take part in various club activities.

48. Give details of "beyond syllabus scholarly activities" of the department :

- Courses on soft skills, foreign languages, presentation skills, aptitude and reasoning are taught to all students.
- Seminars and workshops are arranged to improve the technical skills of the students and to make them aware of current technology.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Focusing on imparting communication skills
- Teaching Soft Skills, aptitude skills, reasoning skills to cope up IT industry
- Conducts every year seminars and workshops at national level
- Innovative Student Projects with new ideas as part of curriculum
- Making students a part of the research done by the faculty

51. Detail five major Strengths, Weaknesses, Oppurtunities and Challenges (SWOC) of the department :

Strengths:

- All the staff members of the department work as a team to bring out the best.

- Nine in the troupe of 17 have completed (including thesis submitted) research which is approximately 52% of the staff members of the department.
- Effective utilization of the smart class room for covering the syllabus is done.
- Each student is given a system during Lab hours.
- Industry certified staff members for DB2, RAD, RFT and Cloud certification courses.
- All the students should choose a research project of their interest as their main project.

Weaknesses:

- Training for competitive exams like GATE, CAT, MAT etc is not given.
- Measures promoting research like encouraging the staff to attend workshops, seminars etc are not available.
- Many of the systems in the lab are not upgraded to the latest technologies.
- Department library does not have recent titles, essential journals and magazines.

Opportunities:

- It is mandatory for the students to take part in mini project contests like “TGMC by IBM” to unveil their programming abilities.
- The students are given ample opportunities to improve their communication skills through soft skills training. They are also given Foreign Language (Japanese and French) coaching to widen their spread and scope.
- Training in soft and software skills of different phases is also provided to tune up their communication and programming capabilities respectively.
- There is an atmosphere for students and staffs to participate in research and creative endeavors because the department has nine doctorate holders.

Challenges:

- Dynamism in curriculum to meet fast changing career objectives is needed.
- Funded projects on some of the most challenging and important technical problems should be carried out.

- Sponsored workshops, FDPs, conferences to fuse innovative ideas should be conducted.
- The requirement of the students to be trained in multi facets beyond curriculum is a need for the current placement requirement.

52. Future plans of the department :

- To increase the membership numbers for IET, IEEE Students Chapter.
- Training the faculty members to get trained with the updated Syllabus.
- Make the staffs and students get updated with current industrial Technologies by having project tie-ups with top ranking industries.
- To provide more placement facilities to the students by having tie-up with industries.
- To provide Entrepreneurship training to the students.
- To conduct International Conferences.
- Almost all the faculty members should be directed to complete their Doctoral Degree.
- To start a national Journal for the benefit of staffs and students.
- To bring out IT Department as an Excellence of Research.

Department Evaluative Report

Department of Marine Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Marine Engineering
Evaluative Report

1. **Name of the Department :** Marine Engineering

2. **Year of establishment :** 2008

3. **Is the Department part of a School/Faculty of the university?**
   Yes, Faculty of Marine Engineering, Noorul Islam University.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   UG (BE) – MARINE ENGINEERING

5. **Interdisciplinary programmes and departments involved :**

Sl. No	Subject code	Subject Name	Semester	Department
1	MR201	Communicative English & Sociology	S1	English
2	MA208	Mathematics – I	S1	Maths
3	EE225	Basic Electrical & Electronics Engineering	S1	EEE
4	EE282	Basic Electrical & Electronics Laboratory	S1	EEE
5	CS208	Computer Science	S2	CSE
6	CS275	Computer Laboratory - I	S2	CSE
7	MA209	Mathematics – II	S2	MATHS
8	MR214	Electrical Machines - I	S3	EEE
9	MA210	Computational Mathematics	S3	Maths
10	EC224	Electronics	S3	ECE
11	EC294	Electronics Laboratory	S3	ECE
12	CS283	Computer Laboratory - II	S3	Computer
13	MR222	Practical Marine Automation	S4	EIE
14	EI280	Control Engineering Laboratory	S4	EIE
15	MR282	Electrical Machines Laboratory	S4	EEE
16	MR224	Management science and Economics	S5	MBA
17	MR232	Marine Electrical Technology	S6	EEE
18	MR219	Electrical Machine - II	S6	EEE
19	MR283	On Board Training & Assessment	S7	Mechanical, EEE, EIE.
20	MR236	Advanced Marine Control Engineering & Automation	S8	EIE

6. Courses in collaboration with other universities, industries, foreign institutions, etc

Nil

7. Details of programmes discontinued, if any, with reasons

Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

SEMESTER/Choice based credit system

9. Participation of the department in the courses offered by other departments

Nil

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate /Professors /Asst. Professors/others) :

Staff List	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	2	2
Associate Professors	1	1	1
Asst. Professors	6	6	6
Others	3	3	3

11. Faculty profile with name, qualification, designation, area of specialization , experience and research under guidance :

Regular Faculty:

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D /M.Phill Students guided for last 4 years
Prof. S. Mohana Das	B.E. (Mech) MEO Class-I (M)	Professor	Marine	33.9	Nil
Prof. S. John Leon	M.E.	Associate Professor	Thermal	22	Nil
Prof. K. Sree Kumar	MEO Class-I (M)	Assistant Professor	Marine	27.6	Nil
Prof. Captain S. Vijayan	MBA (Marketing) Foreign going	Assistant Professor	Marine	32.1	Nil

Pillai	Master Mariner				
Prof. V. K. Jebasingh	M.E.	Assistant Professor	Engineering Design	6	Nil
Mr. U. N Neela Prasad	B.E. (Marine) M. Tech	Assistant Professor	Naval Arch.		Nil
Mr. V. Sangeeth	B.E. (Marine)	Instructor	Marine	4	Nil
Mr. K. Bala Kumar	B.E Mech. (GME) Class IV	Instructor	Marine	3	Nil
Prof. N. Devabalan Nair	Graduated from Indian Navy	Assistant Professor	Marine	40	Nil
Mr. P. Raghuvaran	Graduated from Indian Navy	Instructor	Marine	27	Nil

Visiting Faculty

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D /M.Phill Students guided for last 4 years
Prof. K. Thankavel	B.Sc. Engg. (Mech) MEO Class-I (M)	Professor	Marine	39.3	Nil
Prof. R. Venugopala Pillai	Graduated from Indian Navy MEO Class-I (M)	Assistant Professor	Marine	46	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Adjunct faculty

Name	Designation	Institution Last worked
Prof. K. Thankavel	Dean	Tamil Nadu Maritime Academy, Tuticorin
Prof. R. Venugopala Pillai	Professor	National Institute of Port Management, Chennai

13. Percentage of classes taken by temporary faculty – programme-wise information Weekly:

Nil

14. Programme-wise Student Teacher Ratio :

B.E. :15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Academic Support Staff	Sanctioned	Filled
Lab Instructor	1	1
Lab Assistant	3	3
Lab Technician	1	1

16 Research thrust areas as recognized by major funding agencies :

Nil

17 Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Name & Designation	Title	Funding Agency	Funding Amount	Year
Mr. V. K Jebasingh	Performance study of concentrated parabolic trough collector for the development of renewable energy in South India	Ministry of New and Renewable Energy **(**MNRE**),** Government of INDIA.	7.5 Lakhs	2015

18 Inter-institutional collaborative projects and associated grants received

a) National collaboration **:** Nil
b) International collaboration : Nil

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :**

Nil

20. Research facility / centre with

- **state recognition** **:** Nil
- **national recognition** **:** Nil
- **international recognition** **:** Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Nil

22. Publications:

Faculty Name	Author, Title of the Paper	Journal Name	Vol No., Page No., Year	Impact factor/ SNIP/SJR
Mr. S. John Leon	S. John leon and J.T Winowlin Jappes, Effect of stabilizer on the performance of Ni-P/Zro_2 composite coating	International Journal of Advanced Engineering Applications	Vol.2 Issue 2(2009), pp1-4	---
Mr. V.K. Jebasingh	V. K Jebasingh & G. M Joselin Herbert, Performance study of latest technology in parabolic trough collector for maximum energy utilization from the solar energy	International Journal of Applied Engineering Research	Vol.9 No26(2014) pp.9312-9315	SJR: 0.13 H Index:5 Total Cites: 91

- **Number of papers published in peer reviewed journals (national /international)** : 2
- **Monographs** : Nil
- **Chapters in Books** : Nil
- **Edited Books** : Nil
- **Books with ISBN with details of publishers** : Nil
- **Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)** : Nil
- **Citation Index– range / average** **:** Nil

- **SNIP** : Nil
- **SJR** : Nil
- **Impact Factor – range / average** : Nil
- **h-index** : Nil

23. Details of patents and income generated :

Nil

24. Areas of consultancy and income generated :

Name of the Faculty	Month & Year	Organization
R. Venugopala Pillai	4 quarters 2011	Marg Karaikal Port , Karaikal
	4 Quarters 2012	Marg Karaikal Port , Karaikal
	4 Quarters 2013	Marg Karaikal Port , Karaikal
	April 2015	Mutha Logistics – P & I Club
	August 2015	Cochin Shipyard –United India Insurance

25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad :

Nil

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

Faculty Name with Designation	Committee/Board	Institute
Prof. S. John Leon, Head & Associate Professor, Marine Engineering Department	**Board of studies**	PSN College of Engineering & Technology, Tirunelveli.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs , workshops, training programs and similar programs) :

S.N.	Name of the Faculty	Name of the Program Attended	Venue & Date
1.	Mr. V.K. Jebasingh	FDP	Noorul Islam University, January 04-13,

			2010
2.	Mr. V.K. Jebasingh	FDP	Noorul Islam University, June 09-11, 2015
3.	Mr. N. Devabalan Nair	FDP	Noorul Islam University, January 04-13, 2010
4.	Mr. N. Devabalan Nair	FDP	Noorul Islam University, June 09-11, 2015
5.	Mr. P. Raghuvaran	FDP	Noorul Islam University, January 04-13, 2010
6.	Mr. K.S. Jai Aultrin	FDP	Noorul Islam University, January 04-13, 2010
7.	Mr. A.K. Ratheesh	FDP	Noorul Islam University, August 26-28, 2010.
8.	Mr. U.Neelaprasad	FDP	Noorul Islam University, June 09-11, 2015

28. Student projects :

- **percentage of students who have done in-house projects including inter-departmental projects** :

I YEAR	0%
II YEAR	0%
III YEAR	100%
IV YEAR	100%

- **percentage of students doing projects in collaboration with other universities /industry / institute :**Nil

29. Awards / recognitions received at the national and international level by :

- **Faculty** : Nil
- **Doctoral / post doctoral fellows** : Nil
- **Students** : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants , if any

SL NO	DATE	CHIEF GUEST NAME / Designation	WORKSHOP TOPIC
1	05/04/2010	Mr. Pramod Khurana President, KEI-RSOS,Mumbai	Marine Developments

31. Code of ethics for research followed by the departments :

1. Provide special coaching and guidance to weaker students.
2. Arrange periodical lectures for inculcating social responsibilities.
3. Encourage creative skills and new ideas of the students.
4. Obtain feed back from the students and respond to good suggestions.

32. Student profile programme-wise :

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.E. Marine Engineering (2008-2012 Batch)	50	25	Nil	100%	Nil
B.E. Marine Engineering (2009-2013 Batch)	70	38	Nil	97.36%	Nil
B.E. Marine Engineering (2010-2014 Batch)	52	26	Nil	100%	Nil
B.E. Marine Engineering (2011-2015 Batch)	24	11	Nil	Result Not Yet Published	
B.E. Marine Engineering (2012-2016 Batch)	15	5	1	Currently IV Year Students	
B.E. Marine Engineering (2013-2017 Batch)	18	7	Nil	Currently III Year Students	
B.E. Marine Engineering (2014-2018 Batch)	19	11	Nil	Currently II Year Students	
B.E. Marine Engineering (2015-2019 Batch)	19	15	Nil	Currently I Year Students	

33. Diversity of students :

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
B.E. Marine Engineering (2008-2012 Batch)	Nil	72%	28%	Nil
B.E. Marine Engineering (2009-2013 Batch)	Nil	55.26%	44.74%	Nil
B.E. Marine Engineering (2010-2014 Batch)	Nil	11.54%	88.46%	Nil
B.E. Marine Engineering (2011-2015 Batch)	Nil	72.72%	27.28%	Nil
B.E. Marine Engineering (2012-2016 Batch)	Nil	100%	0%	Nil
B.E. Marine Engineering (2013-2017 Batch)	Nil	28.57%	71.43%	Nil
B.E. Marine Engineering (2014-2018 Batch)	Nil	57.14%	42.86%	Nil
B.E. Marine Engineering (2015-2019 Batch)	Nil	40%	60%	Nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

Nil

35. Student progression :

Student progression	**Percentage against enrolled**
UG to PG	Nil

PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	 Nil 50
Entrepreneurs	Nil

36. Diversity of staff :

Percentage of faculty who are graduates of	Percentage
the same university	0 %
from other universities within the State	63 %
from universities from other States	37 %
From universities outside the country	0 %

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Nil

38. Present details of departmental infrastructural facilities with regard to :

a) Library : The Marine Engineering department is facilitated with 630 books, 267 Manuals and 70 CDs.
b) Internet facilities for staff and students : 24 Hours Wifi facility for students and staffs.
c) Total number of class rooms : 5 + 1 Drawing Hall
d) Class rooms with ICT facility : 1
e) Students' laboratories : 4
f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates :

a) from the host institution/university : 2 Faculty Pursuing Ph.D.

b) from other institutions/universities : 1 Faculty Pursuing Ph.D.

40. Number of post graduate students getting financial assistance from the university : Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Nil

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Nil

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. After First and Third series test, the students are asked to fill the staff evaluation form. After the evaluation, faculty in charge will scrutinise the evaluation and percentage based on the performance of the faculty will be calculated.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The Cadets performance onboard is received from the company.

43. List the distinguished alumni of the department (Maximum 10) :

Name of the Candidates	Company's Name
MANIVEL. P	ELITE MARINERS
GOPINATH. R	IMS EAST INDIA SHIPPING COMPANY
SIVA KARTHTHIK RAJA	SHIP MANAGEMENT
KARTHIKEYAN	TRANSOCEAN
MUTHUPANDI. T	SELANDIA CREW MANAGEMENT
AJITH JOSE	SYNERGY MARITIME PRIVATE LIMITED
PREM PRABU RAJ	BRITISH SHIPPING COMPANY
CHITWAN	MSC SHIPPING COMPANY
HARSH AGARWAL	SAMSON MARITIME Ltd MUM
GUNJAN KUMAR	DOCKENDALE SHIP MANAGEMENT DMC CO

44. Give details of student enrichment programmes (Special Lecturers / workshops / seminars) involving external experts.

DATE	CHIEF GUEST NAME / Designation	SPECIAL LECTURE TOPICs
23/03/2011	Mr. M.R. Sudhahar C/E, Tuticorin port	Safety in Oil Tanker
09/03/2012	Dr. Gabriel D .Roy Associate Director Office of Naval Research Global	Naval Research
26/11/2013	Mr. K. Vinoth Babu Asso. Prof/Mech., NIU	Applied Hydraulic & Pneumatic
12/03/2014	Mr. R. Gopinath J/E East India Shipping Company	Experience Sharing
17/10/2014	Mr. S. Earnest Vimal Fernando 3rd Engineer Shell Ship Management UK	LNG Tanker
06/04/2015	Mr. D. Dinesh Kumar J/E GOL Offshore Ltd	Experience Sharing
30/04/2015	Mr. P. Manivel 4th Engineer Elite Mariners Pvt. Ltd	Experience Sharing

45. List the teaching methods adopted by the faculty for different Programmes:

Power point presentation
Using CD's
Laboratory Teaching
Smart Class Room

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Student Strength, Result & Placement are constantly increasing.

47. Highlight the participation of students and faculty in extension activities:

Staff and Students are nominated as various committee members for the smooth conduct of the University Programmes and Activities.

48. Give details of "beyond syllabus scholarly activities" of the department

Cadets are motivated to participate and present papers in National / International Conferences.

49. State whether the programme / department is accredited / graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

Marine Cadets are sent for STCW modular courses & OTF.
The above Courses relate to new and updated applied knowledge with respect to safety of life at sea, Prevention of Marine Oil pollution and handling /carriage of hazardous /dangerous goods on board Ships.

51. Detail five major strengths, weaknesses, opportunities and challenges (SWOC) of the department:

Strength:

1. Peaceful and conducive ambience for studies.
2. Opportunity for voyage experience during 3rd year
3. Fully fitted out Ship in campus to gain hands on practical experience
4. Marine Chief Engineers having many years Industrial experience handle all Marine Subjects
5. D.G.S. approved Engine Room Simulator

Weakness:

1. Being in a remote area , less exposure to Shipping companies
2. Current recession in shipping affecting placement of our Graduates.
3. Being in a remote area, new admissions are poor.

Opportunities:

1. Our Graduates have already proved their worth and are finding employment in reputed Shipping Companies
2. Our Graduates have opportunity to become Engineer Officers in the Indian Navy and Coast Guard
3. Our Graduates can do P.G in Marine Engineering or Naval Architecture and later join Classification Societies
4. Vizhinjam Transshipment Port coming up at Trivandrum is an opportunity for a tie up to develop mutually beneficial programmes with the Port Organisation.

Challenges:

1. Need to develop tie up with more Shipping Companies for improving placement opportunity

2. More and regular interaction with the Industry so as to update/modify the training aspects, especially the practical so that our Graduates will be preferred when it comes to placement.

52. Future plans of the department. :

Existing infrastructure is adequate to commence Graduate Marine Engineering (GME) course. Graduate with mechanical engineering degree and attitude for a marine career may be offered this course with 1 year duration. Additional faculty comprising marine chief engineers and a naval architecture need to be inducted for conducting this course.

Department Evaluative Report

Department of Mechanical Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Mechanical Engineering
Evaluative Report

1. **Name of the Department :** Mechanical Engineering

2. **Year of establishment :**1995

3. **Is the Department part of a School/Faculty of the university?**
   Yes, Faculty of Mechanical Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   UG:-
   1. B.E. (Mechanical)
   2. B.Tech. (Fire Technology and Safety Engineering);

   PG:-
   1.M.E (Thermal Engineering)
   2.M.E (Computer Integrated Manufacturing)

   Ph.D:-
   Mechanical Engineering

5. **Interdisciplinary programmes and departments involved :**

SL.NO	SUBJECT NAME	YEAR	DEPARTMENT OFFERING COURSE
1	Applied Mathematics	2	Mathematics
2	Electrical Engineering and control	2	Electrical & Electronics

6. **Courses in collaboration with other universities, industries, foreign institutions, etc** : Nil

7. **Details of programmes discontinued, if any, with reasons :**
   Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**
   Semester wise Choice Based Credit System.

9. **Participation of the department in the courses offered by other departments:**

SL.NO	SUBJECT NAME	YEAR	DEPARTMENT OFFERING COURSE

1	Engineering Materials And Metallurgy	2	Aerospace
2	Fluid Mechanics And Machinery	2	Aerospace
3	Thermodynamics And Fluid Mechanics	2	EEE
4	Applied Thermodynamics	2	EIE
5	Engineering Mechanics	1	Common
6	Engineering Graphics	1	Common
7	Basic Mechanical Engineering	1	Common

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors / Asst. Professors/others) :

Posts	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	5	5	5
Associate Professors	10	10	10
Asst. Professors	28	28	28
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Sl No	Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D/ guided for the last 4 years
1	Dr.N. Chandrashekhar	B.E, Ph.D	Professor& PVC of NIU	Applied Mechanics	33	Nil
2	Dr.M. Sivapragash	ME, Ph.D	Professor& Director(Research)	Production	19	4
3	Dr.M.Dev Anand	ME,MBA, Ph.D	Professor &Deputy Director (Academic Affairs)	Production	17	2
4	Dr.G.M. Joselin Herbert	ME, Ph.D	Professor	Thermal	22	Nil
5	Dr.R.Rajesh	ME, Ph.D	Professor & Head	Production	18	Nil

6	Prof.N. Ramasamy	ME, (Ph.D)	Associate Professor	Engg. Design	29	Nil
7	Prof.Robin Kumar Samuel (Leave)	ME, (Ph.D)	Associate Professor	CAD	14	Nil
8	Mr.K.Vinoth Babu	ME,MBA, (Ph.D)	Associate Professor	CIM	19	Nil
9	Mr.I.James Dhinakaran Williams	ME, (Ph.D)	Associate Professor	CAD/CAM	11	Nil
10	Dr.N.Abilash	ME,Ph.D	Associate Professor	CIM	9	Nil
11	Mr.R.Ganesh	ME, (Ph.D)	Associate Professor	Product Design	10	Nil
12	Dr.R.Rajesh	ME, Ph.D	Assistant Professor	Manufacturing	8	Nil
13	Mr.K.S.Jai Aultrin	ME, (Ph.D)	Assistant Professor	Manufacturing		Nil
14	Mr.S.Raja	ME, (Ph.D)	Assistant Professor	CIM	9	Nil
15	Mr.S.Jenkins Hexley Dhas	M.Tech, (Ph.D)	Assistant Professor	Machine Design	24	Nil
16	Mr.P.Jerold Jose	ME, (Ph.D)	Assistant Professor	Welding Technology	10	Nil
17	Mr.R.Ramesh Palappan	ME, (Ph.D)	Assistant Professor	Energy Engineering Management	18	Nil
18	Dr.B.Bavanish	ME, Ph.D	Assistant Professor	CIM	9	Nil
19	Mr.A.K.Rathees h	ME, (Ph.D)	Assistant Professor	Thermal		Nil
20	Mr.A.Unni Krishnan	ME,MBA, (Ph.D)	Assistant Professor	Thermal	17	Nil
21	Mr.S.Selvan Nambi	ME, (Ph.D)	Assistant Professor	Manufacturing Technology	18	Nil
22	Mr.S.G.Nataraj	ME	Assistant Professor	CAD/CAM	9	Nil
23	Mr.R.Reji Kumar	ME, (Ph.D)	Assistant Professor	Manufacturing	11	Nil
24	Dr.M.Satheesh	ME,Ph.D	Assistant Professor	Thermal	13	Nil
25	Mr.R.Rajesh	ME,(Ph.D)	Assistant Professor	Power systems	4	Nil
26	Mr.K.Eqbert	ME	Assistant	CAD	2	Nil

			Professor			
27	Mr.K.Vijay	ME	Assistant Professor	CAD	9	Nil
28	Mr.T.Judson Durai	ME(Ph.D)	Assistant Professor	Manufacturing	6	Nil

Faculty associated from other departments

Name	Qualification	Designation	Department	Specialization	No. of years of experience	No. of Ph.D/ M.Phil. students guided for the last 4 years
Prof. V. Femi	M.E.	Assistant Professor	BME	Nano Technology	5	
Mrs. A. M. Anusha Bamini	B.E., M.E., (Ph.D.)	Assistant Professor	CSE	Cloud Computing	5	Nil
Mr.M. Victor Jose	M.E., (Ph.D)	Associate Prof	MCA	Grid Computing	16.11	1
Mr.R.S. Vinod Kumar	B.E,M.S, M.E	Associate Professor	ECE	Communication Systems	21.10	
Mrs.S. Amala Shanthi	B.E, , M.E	Associate Professor	ECE	Microwave and optical Engineering	19.11	-
Mrs.S.Divya	B.E,M.E	Assistant Professor	ECE	Computer Science and Engineering	7.5	-
Mr.K.P.Rajesh	B.E,M.E	Assistant Professor	ECE	Applied Electronics	5.2	-
Dr. K.S.Vijula Grace	B.E,M.E, Ph.D	Assistant Professor	ECE	Power Electronics and Drives	17.1	
Dr. P. Sujatha Therese	M.E.	Associate Professor	EEE	Process control & Instrumentation	13.5	1/2
Dr. X. Felix Joseph	B.E., M.Tech, Ph.D	Associate Professor	EEE	Applied Electronics	14.2	7/5
Mr. K. Muthuvel	M.E.	Assistant Professor		Electronics & Control	9.1	0/3
Prof.	M.E.	Assistant Professor	EIE	C&I	3.3	-

J.Navis Thinagar						
Ms. J.E. Anusha Linda Kostaka	B.E	Assistant Professor	M.Sc. SE	Computer Science and Engineering	14	-
Mr.M.Rakesh Babu	M.A., M.Phil.	Teaching Assistant	English	Canadian Literature	05	05
Dr.R.Pranesh Kumar	M.A., M.Phil., Ph.D.	Assistant Prof.	English	ELT	04	05
Dr.K.Uma Devi	M.Sc, M.Phil., Ph.D.	Assistant Prof.	Maths	Fuzzy Algebra	PG.Asst-8 College-8	1

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information :

Nil

14. Programme-wise Student Teacher Ratio :

Sl No	Programme	Student Teacher Ratio.
1	B.E Mechanical Engineering	15:1
2	B.Tech. (Fire Technology and Safety Engineering)	15:1
3	M.E (Thermal Engineering)	12:1
4	M.E (Computer Integrated Manufacturing)	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Sl No	Category	Actual
1	Technical Staff	14
2	Administrative Staff	2

16. Research thrust areas recognized by funding agencies :

1.Composite Materials
a) Polymer matrix composites
b) metal matrix composites
2.Logistic and supply chain management
3.Computational Fluid Dynamics

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Sl No	Name	Funding Agency	Project (National)	Grants Received (Lakhs)
1	Dr.M.Sivapragash	DRDO	Characterisation of Zirconium Oxide and Zirconium Nitride Nano coated AZ91D Magnesium Alloy by physical Vapour deposition Method	11.02
2	Dr. Rajesh	ICSSR	A study of third party logistic in India in 2014	3.5

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration**:** Nil
b) International collaboration**:** Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

NIL

20. Research facility / centre with

SL.NO	NAME OF RESEARCH LAB	TYPE OF RESEARCH
1	Strength of material	National
2	Thermal Lab	National
3	Mechatronics	National
4	Special machine lab	National

5	Metallurgy lab	National

21. Special research laboratories sponsored by / created by industry or corporate bodies :

SL.NO	SPECIAL RESEARCH LABORATORIES	FUNDING AGENCY
1	Material characterisation lab	DRDO
2	CAD lab	NICHE
3	Thermal Engineering lab	NICHE

22. Publications :

- Number of papers published in peer reviewed journals (national / international) – 133

Sl. No.	Author, Title of the Paper	Vol , No.Page No., Year	Name of the Journal	Impact factor/ SNIP/SJ
1.	**Sudhagar.K** ,Noorul Haq.A and Selvaraj.T (2009), An Intelligent Genetic Fuzzy Approach to the Truck Backer Upper Problem,	3, 71-78	International Journal of Systems Simulation	**SJR** 0.19
2.	**Sudhagar.K**., Noorul Haq.A and Selvaraj.T (2009), Neuro-Fuzzy Based Adaptive Navigation for Truck Like Mobile Robot,	2, 727-732.	International Journal of Soft Computing	**SJR** 0.13
3.	**Sudhahar.C**., SureshPremil Kumar.R., Senthil.V., Devadhasan.S.R.,Murgesh,R., (2009), Web-based QFD: a collaborative technique for supporting the adoption of customers' voices	4 (3), pp. 360-385.	International Journal of Business Information Systems	**SJR** 0.27
4.	**SureshPremil Kumar.R**.,**Sudhahar.R**.,**John F.Dickson** Senthil.V., **Merin, S**, Devadasan.S.R.,Murgesh,R., (2009), Performance analysis of 5-S teams using quality circle financial accounting executive support system,	1. 3 (3), pp.241-262.	International Journal of Management Practice	**SJR** 0.12

5.	**Rajesh.R**., Pugazhendhi.S., Ganesh.K., Muralidharan.C., (2009), Development of a composite model for selection of third party logistics service provider,	2. 3 (4), pp. 375-401.	International Journal of Electronic Customer Relationship Management	**SJR** 0.19
6.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., (2009), An analytic model for selection of and allocation among third party logistics service providers	3 (3), pp. 268-288.	International Journal of Enterprise Network Management	**SJR** 0.14
7.	**Rajesh.R**., Pugazhendhi.S., Ganesh.K (2009), Heuristic to Solve Allocation Problem in Supply Chain	1 (1), pp. 107-113	International Journal of Academic research	**Impact Factor 1.2**
8.	**J.Edwin Raja Dhas** and S.Kumanan, (2009), Prediction of weld bead width in Submerged Arc Weld of Mild Steel using fuzzy logic modeling	4 (3), pp. 187-191	Journal of Manufacturing Engineering	
9.	P.Babu Aurtherson , S.Sundaram , A.M.Shanawaz , **M.Sivapragash**, (2010),Optimizing the process parameters of ELID grinding using neuro-fuzzy network,	3. 10 (11), pp. 188-193.	International Journal of Computer Science and Network Security	**SJR** 0.46
10.	**M.Dev Anand**, T.Selvaraj, S.Kumanan and T.Ajitha, (2010), A Neuro Fuzzy Based Fault Detection and Fault Tolerance Methods for Industrial Robotic Manipulators,	1 (3/4), pp. 334-371.	International Journal of Adaptive and Innovative Systems (IJAIS)	
11.	Kumanan Somasundaram, K.Kumar and **J.Edwin Raja Dhas**, (2010), Local Selection – An integrated PSO with Fuzzy clustering approach,	4. 1 (1), pp. 31-42.	Journal of Emerging Technology in Mechanical Sciences and Engineering,	
12.	**Edwin Raja Dhas. J** and S.Kumanan, (2010), Modelling and optimisation of submerged arc welding process parameters using	4 (2), pp. 154 -165	International Journal of Enterprise Network Management,	SJR0.14

	particle swarm optimisation technique			
13.	**Joselin Herbert G.M.**,S.Iniyan and Ranko Goic (2010), Performance, reliability and failure analysis of wind farm in a developing country	35, pp. 2739-2751	International Journal of Renewable Energy	Impact Factor **2.978**
14.	**Joselin Herbert G.M.**, S.Iniyan (2010), Performance Analysis of wind farm	1.	International Journal of Green Energy Energy & Environment	
15.	**Robin Kumar Samuel** and Venkumar .P, (2010), Comparison of Direct Method and Meta heuristics for Flow Shop Scheduling,	1.	Journal of Emerging Technology in Mechanical Science and Engg.,	
16.	Arunachalam.S., Ganesh.K., Nagaraj.P., **Rajesh.R.,** (2010), Planning, Scheduling and Optimisation in Manufacturing and Services Enterprise(Edi)	4 (2), pp. 103-106.	International Journal of Enterprise Network Management,	SJR0.14
17.	**Rajesh.R**., Pugazhendhi.S., Ganesh.K., (2010), Service dimension based descriptive study of third party logistics (3PL) service providers and 3PL users,	1 (1), pp. 1-8.	International Journal of Decision Making in Supply Chain and Logistics	
18.	**Rajesh.R**., Pugazhendhi.S., Ganesh.K., (2010), Design of generic balanced scorecard measures for third party logistics service providers,	1 (1), pp. 99-112.	International Journal of Decision Making in Supply Chain and Logistics,	
19.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., (2010), A survey of literature on selection of 3PL providers,	2 (2), pp. 146-170.	International Journal of Business Performance and Supply Chain Modelling	
20.	**J.Edwin Raja Dhas** and Somasundaram Kumanan ,(2010), Neuro hybrid model to predict weld bead width in submerged arc welding process,	69(x), pp. 350- 355	Journal of Scientific & Industrial Research	SJR0.24
21.	**J.Edwin Raja Dhas** and	5 (1), pp.	Advances in	

	S.Kumanan, (2010), Weld quality prediction of submerged arc welding process using Function Replacing Hybrid,	5-12.(ISSN 1854 – 6250)	Production Engineering and Management Journal.	
22.	**Edwin Raja Dhas.J** and S.Kumanan ,(2010), Effects of Process parameters in bead geometry and hardness in submerged arc weld on mild steel	6 (2), pp. 66-74	National Journal of Technology	
23.	P.Babu Aurtherson , S.Sundaram , A.M.Shanawaz , **M.Sivapragash**, (2010), Optimum Selection of Grinding Conditions in ELID Grinding using grey relation analysis,	1 (1), pp. 71-81.	Journal of Emerging Technology in Mechanical Science and Engineering	
24.	**N.Abilash, M.Sivapragash,** (2011), Assessment of Self Healing Property in Hybrid Fiber Polymeric Composite	3 (7), pp. 5430-5435.	International Journal of Engineering Science and Technology,	SJR0.24
25.	P.Babu Aurtherson, S.Sundaram, **M.Sivapragash**, S.Perumal Sankar, (2011), Optimizing the process parameters of ELID grinding using neuro-fuzzy network,	5 (2), pp. 621-636.	International Journal of Imaging Science and Engineering,	SJR0.55
26.	**N.Abilash, M.Sivapragash**, (2011), Review of Natural Fiber Hybridization for FRP Composites	6 (2), pp. 213-232.	International Journal of Material Science	
27.	P.Babu Aurtherson , S.Sundaram , A.M.Shanawaz , **M.Sivapragash**, (2011), Grinding Process on AlSiC composite material and Optimization of surface roughness by ANFIS	3 (4), pp. 425-431.	International Journal of Engineering and Technology	SJR0.18
28.	**N.Abilash, M.Sivapragash**, (2011), Evolution of Experimental Study on Bamboo based FRP Composites,	3 (3), pp. 47-65.	International Journal of Advances in Science and Technology	
29.	**M.Sivapragash**, P.R.Lakshminarayanan,		International Journal of	

	R.Karthikeyan, UTS.Pillai, S. Mohan, (2011), Fracture behaviour of ZE41A magnesium alloy		Advances in Science and Technology(Accepted).	
30.	**M. Dev Anand** and A.M. Senthil Anbazhagan, (2011), Fatigue and Brinelling Evaluation of ASME Pressure Vessel Closure,	5 (5), pp. 1013 - 1019	International Review of Mechanical Engineering (IRME	SJR0.280
31.	**Rajesh.R**., Pugazhendhi.S., Ganesh.K., Muralidharan.C., (2011), AQUA: Analytical model for evaluation and selection of third party logistics service provider in supply chain,	8 (1), pp. 27-45.	International Journal of Services and Operations Management	SJR0.44
32.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., (2011), Application of Genetic Algorithm and particle swarm optimization for solving balanced allocation problems in supply chain,	4 (1), pp. 24-44.	International Journal of Information and Supply Chain Management	SJR0.27
33.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., (2011), Towards taxonomy architecture of knowledge management for third party logistics service providers,	18 (1) , pp. 42-68.	Benchmarking an International Journal	SJR0.6
34.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., Muralidharan, C., Sathiamoorthy, R., (2011), Influence of 3PL service offerings on client performance in India,	47 , pp. 149-165	Transportation Research Part-E,	**Impact Factor 2.676**
35.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K., K.,(2011) Perception of Service Providers Vs Customers on Key Success Factors of Third Party Logistics Relationship - An Empirical Study ,	14 (4), pp. 221-250.	International Journal of Logistics research	Impact Factor 0.340
36.	**G.Natarajan**, (2011), Numerical Analysis of Flow separation in Overexpanded Axisymmetric Nozzle	18(2).	International Society of CFD / CFD Journal-Japan	SJR0.47
37.	**K.Vinoth Babu,**	210.212.23	Trans Tech	

	J.T.Winowlin Jappes and T.P.D. Rajan, (2011),Fabrication and Optimization of Drilling Parameters in Heat treated SiC Reinforced Functionally Graded AI Composites using Taguchi Method,	6.73, pp. 1-6	Publications,Switzerland,	
38.	**M.Satheesh** and **J.Edwin Raja Dhas,** (2011), Effect of Welding Parameters on Dilution in Low alloy steel weldment,	2 (2), pp. 40-46.	Journal of Emerging Technology in Mechanical Sciences and Engineering	
39.	**K.Vinoth Babu**, J.T.Winowlin Jappes and T.P.D. Rajan, (2011),Drilling Studies on silicon carbide reinforced functionally graded aluminium Matrix Composites,	2(1), pp. 54-60.	Journal of Emerging Technology in Mechanical Science and Engineering	
40.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K.,(2012), Generic balanced scorecard framework for third party logistics service providers, ,	140 (1), pp. 269-282	International Journal of Production Economics	**Impact Factor 2.752**
41.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.K.,(2012), Simulated annealing algorithm for balanced allocation problem	61 (5-8), pp. 431--440	International Journal of Advanced Manufacturing Technology	**Impact Factor 1.779**
42.	**G.Natarajan**, R.C.Mehta ,N.Bose., (2012), Fully Expanded Supersonic Flow Inside Conical and Contour Nozzle	49(2)	journal of spacecraft and rockets	**Impact Factor 0.557**
43.	**Edwin Raja Dhas.J** and **M. Satheesh**, (2012), Multiple objective optimization of Submerged Arc Weld process parameters using Grey based Taguchi method	12 (3), pp. 331-345.	International Journal of Industrial and Systems Engineering	SJR0.5
44.	**R.Rajesh**, and **M.Dev Anand,** (2012), Determination of an optimum parametric combination using a surface roughness in EDM	1(3), pp. xx-xx	International Research journals	

	process through response surface methodology,			
45.	N.Prabhu and **M.Dev Anand**, (2012), A Complete Forward and Inverse Kinematics Analysis of SCORBOT ER Vu Plus Industrial Robot Manipulator,	x (x), pp. xx-xx	Manufacturing Technology Today (CMTI), (Accepted)	
46.	**M.Dev Anand**, T.Selvaraj, S.Kumanan and T.Ajith Boscow Raj, (2012), Robotics in Online Inspection and Quality Control Using Moment Algorithm	7 (1), pp. 27-38.	International Journal of Advanced Production Engineering and Management (IJAPEM),	
47.	**Rajesh.R .,** Pugazhendhi.S., Ganesh.,(2013), A Study on 3PL in India	7 (1), PP.1-23.	International Journal Indian Culture and Business Management	
48.	**Rajesh.R.,** Pugazhendhi.S., Ganesh.,(2013) Drivers for Logistics Outsourcing and Factor Analysis for Selection of 3PL Provider,	6 (1), PP.37-58.	International Journal Business Excellence,	SJR0.29
49.	**R Rajesh, M Dev Anand** .,(2013), Experimental Investigation on Aluminium Composite Surface Machined by Electrical Discharge Machining Process using Response Surface Methodology,	10 (1).	Journal of Mechanical Engineering,	
50.	**N Abilash, M Sivapragash** (2013)., Assesing the Mechanical Behaviour of Blended Polypropylene sisal based FRP Composite,	54 ,PP 12319 – 12323.	Elixir International Journal,	
51.	**N Abilash, M Sivapragash** (2013)., Environment Benefits of Eco-Friendly Natural Fiber Reinforced Polymetric Composite Material,	2(1). ,PP. 53– 59.	International Journal of Application in Engineering and Management	
52.	**N Abilash, M Sivapragash** (2013)., Testing the Vibrational Behaviour of Jute	5. 3 (1) PP. 7 – 12.	An International Journal	SJR 0.24

	Fiber Based Sandwich Composite,:		Engineering Science and Technology	
53.	**B Bavanish**, K Thyagarajan., (2013).,Optimization of Power Coefficient on a Horizontal Axis Wind Turbine Using BEM Theory	26, PP. 169 – 182	International Journal of Renewable and Sustainable Energy Reviews	Impact Factor 5.627
54.	A Ramkumar, **M Sivapragash** and Saji Varghese,(2013); Taguchi-Grey Based Optimization of Process Parameters on AZ91D Mg Alloy by FSW,	87, PP.156 – 163.	American Journal of Scientific Research	SJR 1.88
55.	B Stanly Jones Retnam, **M Sivapragash** and P Pradeep,(2013); Effect of Fiber Orientation and Filler Material on Tensile and Impact Properties of Natural Fiber Reinforced Plastics,	99(1) PP. 55 – 60.	European Journal of Scientific Research,	SJR 0.16
56.	A Benham, K Thyagarajan, **M Sivapragash**, (2013); Optimizing the Material Composition for a Wind Turbine Blade Using Grey Based Taguchi Technique,	6. , 10(2) PP. 1964 – 1969.	L Science journal	
57.	A M Senthil Anbazhagan and **M Dev Anand**, (2013)., Stress Intensity and Load Confrontation Study about Axially Cracked ASME based Pressure Vessels,	7(1) PP. 261 – 268	International Review of Mechanical Engineering (IREME)	SJR 0.28
58.	N Prabhu and **M Dev Anand**,(2013)., Integrated CAD/CAE?CAM System for Scorbot-ER Industrial Robot Manipulator	eVersion No : 1662 – 8985	International Journal of Applied Mechanics and Materials	SJR 0.15
59.	**Rajesh,R**., Pranthosh Kumar Paul, (2013),: Technology and Managerical Skill required in 21st century	19(1),PP. 29 – 36.	Information Scientist	
60.	**Rajesh R**, Kim.J.Selan, (2013), Recent Journal of Emerging Technology Developments EDM – A Review,	4(1), PP. 37 – 45.	National Journal of Emerging Technology in Mechanical Science and	

			Engineering	
61.	**Rajesh R**, Pranthosh Kumar Paul, (2013), Usability Engineering : Contemporary Overview with Special Reference to its Possible and Emerging Utilisation in the Academic and Industrial Field of Information Science,	4(1PP. 62 – 68.	National Journal of Emerging Technology in Mechanical Science and Engineering,	
62.	**Rajesh R**, Aravind R Nair, (2013), Tolerance Analysis of a part using Geometric Dimensions and Tolerance,	4(1),PP.222 – 231.	National Journal of Emerging Technology in Mechanical Science and Engineering	
63.	N. Prabhu , **M Dev Anand**,(2013), A Complete Forward and Inverse Kinematics Analysis of SCORBOT ER Vu Plus Industrial Robot Manipulator	11(11), PP.5 – 16.	National Journal of Manufacturing Technology Today (CMTI,)	
64.	A M Senthil Anbazhagan , **M Dev Anand,**(2013), Development of wind and Seismic Design Procedure of Tall Column for Preventing Process Industries Disaster,	Vol x, Number x, Page xxx – xxx, 2013	National Journal of Noorul Islam Strategy Management and Ambiance (NISMA) accepted	
65.	Amal Pratap, **M Dev Anand** and D Jackson,(2013),Design, Integration and Implementation of Coordinated Multipurpose Robotic System with Smart Sensors, (2013),	7. 4(1),PP.167 – 178.	National Journal of Emerging Technology in Mechanical Science and Engineering,	
66.	R Krishnadas ,**M Dev Anand**, (2013), Finite Element Analysis of Tubular Heat Exchangers for Different Flow Patterns,	4(1),PP.179 – 188.	National Journal of Emerging Technology in Mechanical Science and Engineering,	
67.	J P Pratheesh, K Karuppasamy and **M Dev Anand**, (2013), Development of Small Domestic Wind Turbine Tower and Blades Systems: An Optimization Approach,	4(1),PP.169 – 198.	National Journal of Emerging Technology in Mechanical Science and Engineering	

68.	A M Senthil Anbazhagan and **M Dev Anand**,(2013), An Improvement of Finite Element Based Wind and Seismic Design Procedure for Tall Process Columns,	4(1),PP.241 – 250.	National Journal of Emerging Technology in Mechanical Science and Engineering,	
69.	T Ajith Bosco raj and **M Dev Anand**,(2013), Mathematical Modelling of Mobile Robot Part – I	4(1),PP.251 – 254.	National Journal of Emerging Technology in Mechanical Science and Engineering,	
70.	Chithra D Gracia and **M Dev Anand**,(2013), Random Generation of RNA's Sequences with secondary Structure	4(1),PP. 255 – 264.	National Journal of Emerging Technology in Mechanical Science and Engineering	
71.	V K Jebasingh , **G M Joselin Herbert**,(2013), Theoretical and Experimental Investigation of Elliptical Receiver Tube in Solar Parabolic Trough Collector,	4(1),PP.115 – 118	National Journal of Emerging Technology in Mechanical Science and Engineering,	
72.	D Bino Prince Raja, B Stanly Jones Retnam, M Ramachandran, **M Sivapragash**, Analysis of Mechanical Properties of glass and carbon fiber reinforced polymer material	ISSN 0973-4562 volume 10, Number 11(2015).	International Journal of Applied Engineering Research	SJR 0.13
73.	M Aniber Benin, B Stanly Jones Retnam, M Ramachandran, **M Sivapragash,** J Edwin Raja Dhas, Comparative study of tensile properties on Thermoplastic & Thermosetting polymer composites,	ISSN 0973-4562 volume 10, Number 11(2015).	International Journal of Applied Engineering Research	SJR 0.13
74.	**M Sivapragash,** P R Lakshminarayanan, R Karthikeyan, M Hanumantha, A Ramkumar, Flow stress modelling of as cast and welded ZE41A magnesium alloy at elevated temperature,	ISSN 0973-4562 volume 10, Number 8(2015).	International Journal of Applied Engineering Research	SJR 0.13

75.	G Robertsingh, **M Sivapragash**, R Anish, Improving Mechanical Properties of Mg ally by optimizing the Composition Elements using Grey based Taguchi Method,	ISSN 0973-4562 volume 10, Number 8(2015).	International Journal of Applied Engineering Research	SJR 0.13
76.	R Anish, **M Sivapragash**, G Robertsingh, Compressive behaviour of SiC/ncsc reinforced Mg composite processed through powder metallurgy route	ISSN Vol 63,pp 384-388 (2014).	Materials and Design	Impact Factor 3.5
77.	P Mohan, M Kathirvel, N Azhagesan, **M Sivapragash**, The mechanical characterization of Al_2O_3 reinforced AL6061 metal matrix composite	Vols 766-767 (2015), pp 257-262,	Applied Mechanics and Materials Trans Tech Publications, Switzertland.	SJR 0.15
78.	R Anish, **M Sivapragash**, Tensile behaviour of SiC/ncsc reinforced Mg composite processed through powder metallurgy route	ISSN 0973-4562 volume 10, Number 11 (2015).	International Journal of Applied Engineering Research	SJR 0.13
79.	R Anish, **M Sivapragash**, G Robertsingh, Development of AZ31B/SiC magnesium composite using powder metallurgy technique	, ISSN 0973-4562 volume 9, Number 26 (2015).	International Journal of Applied Engineering Research	SJR 0.13
80.	G Robertsingh, **M Sivapragash**, R Anish, Optimizing the composition elements of Mg alloy in mechanical properties by powder metallurgy route followed by hot extrusion using Taguchi based Grey analysis	ISSN 0973-4562 volume 9, Number 26 (2015).	International Journal of Applied Engineering Research	SJR 0.13
81.	R Anish, **M Sivapragash**, G Robertsingh, Development of AZ31B/SiC magnesium composite using powder metallurgy technique followed by hot extrusion	, Vols 984-985 (2014) pp 124-128.	Advanced Materials Research	SJR 0.14
82.	**N Abilash,** M Sivapragash, Influence of orientation in	ISSN 0973-4562	International Journal of Applied	SJR 0.13

	minimizing delamination failure of bamboo fiber reinforced composites	volume 9, Number 26 (2014) pp. 9059-9063.	Engineering Research	
83.	N Prabhu, **M Dev Anand**, V Sundar, Integrated CAD/CAE/CAM system for Scorbot-ER Vu Plus Industrial Robot Manipulator	Vol. 389 (2013) pp 747-753,	Applied Mechanics and Materials, Trans Tech Publications, Switzertland	SJR 0.15
84.	N Prabhu, **M Dev Anand**, V Sundar, Integrated CAD/CAE/CAM and RP for Scorbot-ER Vu Plus Industrial Robot Manipulator,	Vol. 6, N.6, November 2013, ISSN 1974-6059.	International Review of Automatic Control (I.RE.A.CO.),	SJR 0.69
85.	N Prabhu, **M Dev Anand**, L Ezhil Ruban, Structural analysis of Scorbot-ER Vu Plus Industrial Robot Manipulator,	2014, Vol. 2, No. 1, pp 309-325.	An Open Access Journal Production & Manufacturing Research:	SJR 1.35
86.	D Sivasamy, **M Dev Anand**, V Krishnama Naidu, Design of a Novel High Speed Double- Tail Comparator,	Volume: 5, Special Issue 1 Feb 2014, ISSN No:076-25.	Journal of Emerging Technology in Mechanical Science and Engineering,	
87.	R Rajesh, **M Dev Anand**, Experimental Investigation on Aluminium Composite Surface Machined by Electrical Discharge Machining Process Using Response Surface Methodology,	Vol. 10, No. 1, 1-15, 2013.	Journal of Mechanical Engineering	SJR 0.41
88.	R Rajesh, **M Dev Anand**, Hybrid Modeling of Process Parameters Produced by Electric Discharge Machining using Differential Evaluation and Particle Swarm Optimization	Vol. 12, No. 2 (2013) 147-169.	Journal of Advanced Manufacturing Systems	SJR 0.15
89.	P Gopu, **M Dev Anand**, R Rajesh, ANFIS Based Surface Roughness Prediction Model for EDM,	Volume: 5, Special Issue 1 Feb 2014,	Journal of Emerging Technology in Mechanical	

		ISSN No.0976-2558.	Science and Engineering	
90.	T M Chenthil Jegan, D Ravindran, **M Dev Anand**, ECM Parameters modelling and optimization using WSGA,	8. Vols. 423-426 (2013) pp 925-930.	Applied Mechanics and Materials	**SJR0.15**
91.	R Rajesh, **M Dev Anand**, A review of electro discharge machining and its performances on MRR, TWR and SR,	Volume: 5, Special Issue 1 Feb 2014, ISSN No: 0976 2558.	Journal of Emerging Technology in Mechanical Science and Engineering,	
92.	R Rajesh, **M Dev Anand**, P Gopu, Surface roughness prediction using adaptive neuro fuzzy inference system model in EDM	ISSN No: 0976 2558, Volume – 5, Special Issue – I Feb 2015.	National Journal of Emerging Technology in Mechanical Science and Engineering	
93.	Sijo John, **M Dev Anand**, Thermal Analysis and Effects of Shock Wave Over Supersonic Flow Convergent-Divergent Nozzle,	Volume – 5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	National Journal of Emerging Technology in Mechanical Science and Engineering	
94.	K S Jai Aultrin, **M Dev Anand**, Multi-Objective Optimization of Abrasive Water Jet Machining Process for Copper Iron Alloy by Grey Relational Analysis,	Volume – 5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	National Journal of Emerging Technology in Mechanical Science and Engineering	
95.	Sudhakar, **M Dev Anand**, Facility location selection based on the TOPSIS methods,	Volume – 5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	National Journal of Emerging Technology in Mechanical Science and Engineering	
96.	D Sudhakar, **M Dev Anand**, Industrial Robot Manipulator Structure Design for Assembly using FEM	Volume – 5, Special Issue – I, Feb 2015,	National Journal of Emerging Technology in Mechanical	

		ISSN No: 0976-2558.	Science and Engineering	
97.	Joe Jebarajan, **M Dev Anand**, I Jacob Raglend, Comparative study of inverse kinematic solution for a five joint robot using various nueral network models,	Volume – 5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	National Journal of Emerging Technology in Mechanical Science and Engineering	
98.	A M Senthil Anbazhagan, **M Dev Anand**, Twenty two different types of corrosions in pressure vessels,	Volume – 5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	National Journal of Emerging Technology in Mechanical Science and Engineering	
99.	**M Satheesh**, J Edwin Raja Dhas, Multi-objective optimization of FCAW parameters using grey-based Taguchi with entropy technique	Vol. 19, No. 2, 2015.	International Journal Industrial and Systems Engineering	SJR0.5
100.	Neelarajan,R.R.,**Rajesh, R.,** (2015), Development of Mathematical Model for the Transesterification of Jatropha Oil Using Response Surface Methodology,	10 (8), pp. 6219-6223.. (Scopus)	International Journal of Applied Engineering Research,	SJR0.13
101.	Siva.,M.M.,**Rajesh, R.,** Pugazhendhi, S., (2015), Production and Properties of Aluminum Titanum Diboride Composites Formed Stir Casting	10 (8), pp. 6385-6389..	International Journal of Applied Engineering Research, (Scopus)	SJR0.13
102.	Anoop Kumar.,S.,**Rajesh, R.,** Pugazhendhi, S., (2015), Numerical investigation on effect of cutouts in fiber composites	, 10 (8), pp. 6408-6413.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
103.	Ramasamy,N.,**Rajesh, R.,** Pugazhendhi, S., Manoharan, T.R., (2015), Development of A Balanced Scorecard For Hospitals And Model For Patient Satisfaction	, 10 (8), pp. 6389-6400.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
104.	Kim,J.J.Seelan.,**Rajesh, R.,** Pugazhendhi, S., (2015),	10 (8), pp. 6414-	International Journal of Applied	SJR0.13

	Mechanical Properties Evaluation of Aluminium (LM25) Titanium Diboride Metal Matrix Composites (Al-Tib2),	6438.. (Scopus)	Engineering Research,	
105.	Neelarajan,R.R.,**Rajesh, R.,** Pugazhendhi, S., (2015), Extraction of Alternative fuel from Mahua oil for Internal Combustion Engine using Taguchi Method,	, 10 (8), pp. 6444-6450.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
106.	Ramasamy,N.,**Rajesh, R.,** Pugazhendhi, S., (2015), Development of A Balanced Scorecard For Hospitals And Model For Patient Satisfaction	10 (8), pp. 6451-6456.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
107.	Anoop Kumar.,S.,**Rajesh, R.,** (2014), Study Of Hole – Hole Interaction In Laminated Fiber Epoxy Composites	9 (26), pp. 9172-9176.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
108.	Ramasamy,N.,**Rajesh, R.,** Pugazhendhi, S., (2014), An Analysis Of Performance Measures Of Institutions In Higher Education By Using Interpretive Structural Modeling,	, 9 (26), pp. 9417-9419.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
109.	Kim,J.J.Seelan.,**Rajesh, R.,** (2014), Optimization of EDM Parameters Using Taguchi Method And Grey Relational Analysis For Aluminium Titanium Diboride (Al-TiB2)	9 (26), pp. 9413-9416.. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
110.	Paul, Prantosh Kumar,.,**Rajesh, R.,** Dipak Chaterjee, K S Shivraj (2014), Cloud Computing: Overview, Requirement And Problem In The Perspective Of Undeveloped And Developing Countries With Special Reference To Its Probable Role In Knowledge Network Of Academic Field	, 9 (26), pp. 8996-9000. (Scopus)	International Journal of Applied Engineering Research	SJR0.13
111.	Sachin V Dev, **G M Joselin**	Volume –	International	

	Herbert, Flow induced vibration analysis of heat exchanger with three different types of tube bundles	5, Special Issue – I, Feb 2015, ISSN No: 0976-2558.	Journal of emerging research & technology	
112.	V K Jebasingh, **G M Joselin Herbert**, Performance sutdy of latest technology in parabolic trough collector for maximum energy utilization from the solar energy	, Vol. 4 Issue 01 Jan 2015, ISSN: 2278-0181.	International Journal of emerging research & technology	
113.	**G M Joselin Herbert**, S Iniyan, D Amutha, A review of technical issues on the development of wind farms,	32 (2014) 619-641.	Renewable and Sustainable Energy Reviews	IMPACT FACTOR 5.90
114.	**G M Joselin Herbert**, A Unnikrishnan, D Amutha, Compendium of Biomass Technology for Greenhouse Gas Emission Reductions	ISSN 0973-4562 Volume 10, Number 8 (2015).	International Journal of Applied Engineering Research	SJR0.13
115.	Selvan Nambi S, **G M Joselin Herbert**, Status of wind Energy	ISSN 0973-4562 Volume 10, Number 8 (2015).	International Journal of Applied Engineering Research	SJR0.13
116.	**G M Joselin Herbert**, Selvan Nambi S, A Unnikrishnan, A brief reviews on environmentsl aspects of wind Energy and biomass,	ISSN 0973-4562 Volume 10, Number 8 (2015).	International Journal of Applied Engineering Research	SJR0.13
117.	A Unnikrishnan, **G M Joselin Herbert**, BIOMASS: The energy for sustainable development,	ISSN 0973-4562 Volume 10, Number 8 (2015).	International Journal of Applied Engineering Research	SJR0.13
118.	**K Vinoth Babu,** JT Wionowlin Jappes, TPD Rajan, M Uthayakumar, Dry sliding wear studies on SiC reinforced functionally graded aluminium matrix	(2014)	Journal of Materials Design Applicaions	Impact Factor 0.746

	composites			
119.	**Bavanish, B** & Thyagarajan, K (2014), 'Performance Of A Horizontal Axis Wind Turbine Using CFD',	ISSN: 0976-2558, vol.5, pp. 184-192.	National Journal of Emerging in Mechanical Science and Engineering	
120.	**Bavanish, B** & Thyagarajan, K (2012), 'Aerodynamic Performance Analysis of a Flat Plate HAWT',	ISSN: 2277-3878, vol.1, Issue 2, pp. 181-191.	International Journal of Recent Technology and Engineering (IJRTE	
121.	Krishna veni,**Rajesh. R**, Development of Integral model using AHP &DEA	Vol 38.pp 3700-3708	Procedia Engineering	SJR 0.274
122.	Uma Devi,Elango, **Rajesh.R**, Vendor selection using AHP	Vol 38.pp1946-1949	Procedia Engineering	SJR 0.274
123.	Pal pandi,Rajendra Sethu pathi,**Rajesh.R**,Conceptual modal for achiving global quality in Engineering education institution in India	Vol 38.pp 3628-3634	Procedia Engineering	SJR 0.274
124.	Edwin Raja J Dhas, M Satheesh Multiple objective optimization of submerged arc welding process parameters using grey based fuzzy logic	Vol7,1,5-16(2012)	Advances in Production Engineering & Managemen	
125.	V.K.Jeba Singh,**G.M.Joselin Herbert,** Performance study of latest technology in parabolic trough collector for maximum energy utilization from the solar energy	Vol 4,1 pp 631-633 2015	International Journal of Engineering Research and Technology (IJERT)	Impact Factor 1.112
126.	Sachin V Dev, **G.M.Joselin Herbert**,Flow induced vibration analysis of heat exchangers with three different types of tube bundles	Vol-5,Issue 1,2015	Emerging Technology in Mechanical Science and Engineering	
127.	**M. Satheesh** and J. Edwin Raja Dhas '**Multi Objective Optimization of Flux Cored Arc Weld Parameters Using**	Vol. 11, No. 1,2014, 23-33	**The Journal of Engineering Research**	

	Hybrid Grey – Fuzzy Technique			
128.	**M. Satheesh** and J. Edwin Raja Dhas 'Multi Objective Optimization of Weld Parameters of Boiler Steel Using Fuzzy Based Desirability Function'.	Vol. 7 (1), 2014, 29 – 36	Journal of Engineering Science and Technology Review	
129.	**M. Satheesh** and J. Edwin Raja Dhas 'Multi objective optimization of Weld parameters using PCA and entropy techniques in Taguchi method	Vol 9, No. 2, 2012, 73-92.	Journal of Mechanical Engineering	
130.	**M. Satheesh** and J. Edwin Raja Dhas 'Effect of welding parameters on dilution in low alloy steel weldment,	Vol 2, No. 2, 2011,40-46.	Journal of emerging technology in Mechanical science and Engineering	
131.	**M. Satheesh** and J. Edwin Raja Dhas 'Multi objective optimization of flux cored arc weld parameters using fuzzy based desirability function.	Vol. 37, No. M2, 2013, 175-187.	Iranian journal of science and technology	0.64
132.	J. Edwin Raja Dhas and **M Satheesh** 'Multi Objective Optimization of Welding Using Grey Relational Analysis with Entropy Measurement	Vol 4, No. 3-4, 2012, 181-198.	Journal of Manufacturing Technology Research	
133.	J. Edwin Raja Dhas and **M. Satheesh** 'Sensitivity analysis of submerged arc welding parameters for low alloy steel weldment.	Vol. 20, 425-434, 2013	Indian Journal of Engineering and Materials Sciences	Impact Factor0.5

∗ ***Chapters in Books***

Sl. No.	Name of the faculty	Chapter Title & Title of the Book	Publisher	Year	ISBN
1.	Dr R Rajesh	Management innovation for	IGI Global	2014	ISBN 978-1-

		intelligent supply chain , Chapter 10, page no.184-203			4666-2461-0

* ***Books edited***

Sl. No.	Name of the faculty	Title	Publisher	Year	ISBN
1.	**Rajesh, R.**, Ramasamy, N., Abilash, N.,Raja, S	Proceedings of National Conference on Recent Advances in Mechanical Engineering	NICHE MECH Publication	2011	
2.	James Dhinakaran Williams, I., Sudhagar, K., **Rajesh, R.**, Edwin Raja Dhas, J	Proceedings of International Conference on Recent Advances in Mechanical Engineering (vol 1)	IT Publication	2010	ISBN 978-81-907917-3-2
3.	James Dhinakaran Williams, I., Sudhagar, K., **Rajesh, R**., Edwin Raja Dhas, J.	Proceedings of International Conference on Recent Advances in Mechanical Engineering (vol 2)	IT Publication	2010	ISBN 978-81-907917-3-1
4.	**Rajesh, R.**, K.Ganesh, S.C.Lenny Koh	Procedia Engineering, volume 38	Elsevier	2012	
5.	**Rajesh, R.**, Raja, S.,Siva Prakash,M,Joselin Herbert,G.M,James Dinakar Williams	Proceedings of International National Conference on Modelling, Optimisation and Computing,Volume –I	NICHE MECH Publication	2012	
6.	**Rajesh, R.**, Raja, S.,Dev Anand,M,Robin Kumar Samuval	Proceedings of International National Conference on Modelling, Optimisation and Computing,Volum	NICHE MECH Publication	2012	

		e –II			
7.	**Rajesh, R.**, Raja	Proceedings of International National Conference on Modelling, Optimisation and Computing,Volume –I	NICHE MECH Publication	2014	
8.	**Rajesh, R.**, Raja	Proceedings of International National Conference on Modelling, Optimisation and Computing,Volume –II	NICHE MECH Publication	2014	
9.	S.Arunachalam**.**, K.Ganesh, **Rajesh, R.**	Planning Scheduling and Optimization in Manufacturing and Service Enterprises, International Journal of Enterprise Network Management vol 4(2)	Inder Science Publications	2012	
10	**Rajesh, R.**, Robin Kumar samuvel, N., Abilash	A Text Book on Engineering Mechanics	NICHE MECH Publication	2012	
11	**Rajesh, R.**, Robin Kumar samuvel, N., Abilash	A Text Book on Engineering Graphics	NICHE MECH Publication	2012	
12	K. Ganesh, S.C. Lenny Koh, A. Saxena, **R. Rajesh**	Logistics Design and Modelling - A Simulation Perspective	Logistics and Supply Chain Management (LSCM) Research Group , University of Sheffield 9 Mappin Street, Sheffield S1 4DT, UK	2011	

BOOKS

* ***Books with ISBN with details of publishers***

Sl. No.	Name of the faculties	Title	Publisher	Year	ISBN
1.	M.SivaPragash, R.Rajesh,N.Nalanth	A text Book on Basic Mechanical and Civil Engineering	IT Publication	2013	ISBN: 13978 81-907917-2-4

- Number listed in international database (For *e.g*. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - 133
  - Citation Index – range / average - 4.15
  - SNIP :
  - SJR - 0.9941
  - Impact Factor – range / average - 2.731
  - h-index -22.95

23. Details of patents and income generated : 01

S.No	Name of Project	Principal Investigator/ Co Principal Investigator	Funding Agency	Period	Consultancy Fee	Status
1	Hydraulic Sun Tracker	Dr. N. Chandrashekar	DSIR	2007 – 2010	3.50 Lakhs	Completed

24. Areas of consultancy and income generated :

Sl. No	Description of the work	Staff in charge	Name of the company	Quantity/ Amount	Total price
1	CNC Machining	S. Raja	Mosima	400/ 300per kit	1,20,000

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Nil

26. Faculty serving in :

	Name of the	Details of	Details of	Any other

Sl No	Faculty member	National/International committee served	Editorial Board Served	committee
1	Dr.R.Rajesh	International Journal of Logistics and supply chain Management, Serials Publications, New Delhi.	Editor	
2	Dr.R.Rajesh	, International Journal Green Computing, IGI Global Publications, Hershey, PA 17033, USA	Associate Editor	
3	Dr.R.Rajesh	International Journal of Operations, Systems and Human Resource Management, Serials Publications, New Delhi.	Associate Editor	
4	Dr.R.Rajesh	National Journal of Emerging Technologies in Mechanical Engineering Research, NICHE Publications	Editor	
5	Dr.R.Rajesh	International Journal of Decision Making in Supply Chain and Logistics, Serials Publications, New Delhi.	Editorial Board member	
6	Dr.R.Rajesh	International Journal of Applied Science and Engineering In association with Information Science and Technology Foundation, NEW DELHI PUBLISHERS	Editorial Board member	
7	Dr.R.Rajesh,	International Journal of INFORMATION SCIENCE AND COMPUTING, Renu Publishers ,New Delhi – 110059 (India)	Editorial Board member	
8	M.Devanand,	Science publishing corporation, Germany	Editorial Board member	
9	M.Sivaprakash ,	National Journal of Emerging Technologies in	Editor	

		Mechanical engineering Research , NICHE Publications		

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)

Sl.No	Name of the programme	Date of event	Duration
1	Introduction to MAT Lab	18-05-2015 to 23-05-2015	6 Days
2	CFD	15-06-2015 to 17-06-2015	3 Days
3	Programming in c++	29-06-2015 to 01-07-2015	3 Days

28. Student projects

Sl. No.	Name of the Programme offered	Percentage of students who have done inhouse projects including interdepartmental projects	Percentage of students who have done in-house projects in collaboration with other universities for industry / institute
1	B.E Mechanical	60	40
2	B.Tech FTSE	100	NIL
3	ME CIM	80	20
4	ME THERMAL	80	20

29. Awards / recognitions received at the national and international level by

- Faculty

Sl. No.	Name of the Faculty Member	Awards /recognition received	
		National	International
1	**R.Rajesh**	Best Ph.D thesis award in Manufacturing from the Governor of Tmilnadu during the 79 th Convocation for Annamalai University, Chidambarm on 9-11-2011	
2	**R.Rajesh**	Biography of R.Rajesh, is listed in Marquis Who's	

		Who in the world in the year 2013,30 th edition	

30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any :

International Conference

Sl No	Name of the Conferences	Sponsor	Year	Coordinator	outstanding participants
1	International Conference on Recent Advances in Mechanical Engineering (**ICRAME 2010**)	**ISRO,SCIENCE CITY**	**2010**	R.RAJESH	Professor SC Lenny Koh, Director of Centre for Energy, Environment and Sustain ability (CEES) Director of Logistics and Supply Chain Management (LSCM) Research Centre, University of Sheffield,UK,London, Dr.k.Ganesh, Knowledge Consultant,Mckiney India Ltd,NewDelhi
2	International Conference on Modelling,Optimisation and Computing (**ICMOC 2012**)	**ISRO,INSA**	**2012**	R.RAJESH	Dr.S.Iniyan,Director for Energy studies,Anna University,Chennai Dr.U.T.S.Pillai,Head ,Mechanical,CSIR,Trivandram Dr.Moon.K.Chetry,Scientist,DRDO,Bangalore Dr.Shyam Mohan,Director,Reusable Launch Vehicle, VSSC, Trivandram
3	International Conference on Modelling,Optimisation and Computing (**ICMOC 2014**)	**ISRO,INSA**	**2014**	R.RAJESH	Dr.N.Vedachalam,Emeritus Scientist,ISRO Dr.V.Narayanan, Group Director, Cryogenics ,LPSC, Trivandram Dr.MattiMuthos, Research Director, University of Oulu, Finland Dr.Kamal Sharma,BARC Mumbai

National Conferences

Sl No	Name of the Conferences	Sponsor	Year	Coordinator	outstanding participants
1	National Conference on Recent Advances in Mechanical Engineering (**RAME 2011**)	**SCIENCE CITY**	**2011**	R.RAJESH	Mr.Raju,Vice President,L&T, Mumbai Mr.Kartikesan, Director,LPSC, Mahendragiri

National Seminars

Sl No	Name of the Seminar	Sponsor	Year	Coordinator	outstanding participants
1	Mechcarnic 2KI2		2012	R.RAJESH	Dr.Kasinath Balaji, Site Director, NPCIL,Kudankulam Dr.V.Radha Krishnan, Emeritus Professor, IIST, Trivandram
2	Mechcarnic 2KI3		2013		Shri.Sundar, Site Director, NPCIL, Kudankulam
3	Mechcarnic 2KI4	NPCIL,Kudangulam	2014		Dr.K.Sivan,Director,VSSC,Trivandram
4	Mechcarnic 2KI5		2015		Shri.Sajansingh R.Chavan,District Collector, Kanyakumari District Dr.A.Shivathanu Pillai, Founder CEO & Managing Director, BrahMos Aerospace Pvt.Ltd

Workshop

a. Three days workshop on **Computational Fluid Dynamics**, Noorul Islam Centre for Higher Education, Kumarakoil, September 27-29, 2012.
b. Three days workshop on **Finite Element Analysis using PROMECHANICA**, Noorul Islam Centre for Higher Education, Kumarakoil, September 27-29, 2012.

c. Two days workshop on **Gateway to Research**, Noorul Islam Centre for Higher Education, Kumarakoil, September 23-24, 2011.
d. Three day workshop on Soft skills training, Noorul Islam Centre for Higher Education, Kumarakoil, , July 23-25, 2011

31. Code of ethics for research followed by the departments :

The Department is committed to undertaking research with scientific integrity and in conformity with the accepted code of principles on Good Research Practices . A Research committee comprising of senior faculty members functions to monitor the progress of the research work of both ME., and Ph.D., Scholars. The Committee ensures that there is no redundancy in research topics. The students are advised to refrain from plagiarism and any form of research malpractice.

32. Student profile programme-wise :

Sl No	Name of the programme	Application received	Selected		Pass Percentage	
			Male	Female	Male	Female
1	B.E (2009-10)	90	66		92	
2	B.E 2010-11	95	66		87	
3	B.E 2011-12	145	126		89	
4	B.E 2012-13	154	136		72	
5	B.E 2013-14	210	186	01	60	
6	B.E 2014-15	202	180		100	
7	M.E CIM 2010-11	10	02		100	
8	M.E CIM 2013-14	03	01		100	
9	M.E Thermal (2011-12)	10	06		100	
10	M.E Thermal 2012-13	5	03		100	
11	M.E Thermal 2013-14	07	04		100	

33. Diversity of students:

Name of the Programme (refer to question no. 4)	% of students from the Same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.E Mechanical Engineering	-	27%	70%	3%
B.Tech. (Fire Technology and Safety Engineering)	-	50%	50%	
M.E (Thermal Engineering)	10%	40%	50%	-
M.E (Computer Integrated Manufacturing)	-	100%	-	-
Ph.D in Mechanical Engineering	20%	40%	40%	

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :**

Nil

35. Student progression :

Student progression	Percentage against enrolled
UG to PG	10%
PG to M.Phil.	-
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed Campus selection Other than campus recruitment	 60% 30%
Entrepreneurs	10%

36. Diversity of staff :

Percentage of faculty who are graduates	
Of the same university	11.11
From other universities within the state	81.49
From universities from other states	7.4
From universities outside the countries	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 04

SL NO	NAME	YEAR
1	Dr.N.Chandrashekar	
2	Dr.M.Sivapragash	2008
3	Dr.M.Devanand	2007
4	Dr.GM.Joselin Herbert	2007
5	Dr.R.Rajesh	2011
6	Dr.N.Abilash	2015
7	Dr.R.Rajesh	2015
8	Dr.B.Bavanish	2015
9	Dr.M.Satheesh	2013

38. Present details of departmental infrastructural facilities with regard to

Sl. No.	Name of the Infrastructural Facility	Quantity / Details
1	Library	Total No. Of Books : 1188 Journals : 121 Project Reports : 1000 Question Papers : 300 Department Magazine: 01
2	Internet facilities for staff and students	WiFi for all
3	Total number of class rooms	14
4	Class rooms with ICT facility	02
5	Students' laboratories	15
6	Research laboratories	02

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

Sl.No	Name	Discipline	Category
1	N.Abilash	MECH	Part Time-I
2	R.Neelarajan	MECH	Part Time-I
3	T.Judson durai	MECH	Part Time-I

from other institutions/universities :

Sl No	Name	Discipline	Category	Name	Discipline	Category
1	HARI RAM K	MECH	Part Time -E	Aswin Sankar A. S	Mech. Engg.	PT – E
2	HUBERT SINGH M	MECH	Part Time-I	Jim J. Seelan	Mech. Engg.	PT – E
3	JEBA SINGH V. K	MECH	Part Time-I	Rafi.A	Mech. Engg.	PT – E
4	RAM KUMAR A	MECH	Part Time -E	Reji Kumar R	Mech. Engg.	PT – I
5	SATHEESH M	MECH	Full Time	Silan Tharakan S	Mech. Engg.	PT – E
6	STANELY JONES RETNAM	MECH	Part Time-I	Suhakar D	Mech. Engg.	PT – E
7	Jenkins Hexley Dhas S	Mech	PT – I	Suneesh E	Mech. Engg.	PT – E
8	Rajesh R	Mech	PT – I	Aniber Benin M	Mech. Engg	FT
9	Robert Singh G	Mech	PT – I	Abey Arsal I	Mech. Engg	PT – E
10	Hari Venkit	Mech	PT –E	Akhil A T	Mech. Engg	PT – E
11	Prabhu N	Mech	PT – E	Alex S	Mech. Engg	PT – E
12	Senthil Anbazhagan A.M.	Mech	PT – E	Anandan S	Mech. Engg	PT – E
13	Sreejith B J	Mech	PT – E	Arun M P	Mech. Engg	PT – E
14	Anish R	Mech. Engg.	FT	Balakrishnan N	Mech. Engg	PT – E
15	Kumaradhas P	Mech	PT – E	Darwins A K	Mech. Engg	PT - I
16	Jai Aultrin K. S	Mech	PT – I	Lijohn P George	Mech. Engg	PT – E
17	Ramasamy N	Mech	PT – I	Paulose M V	Mech. Engg	PT – E

18	Gopakumar R	MECH	PT – E	Sangeeth K K	Mech. Engg	PT – E
19	Rajesh Prabha N	MECH	PT – E	Selva Raj T	Mech. Engg	PT – E
20	Siva M. M	MECH	PT – E	Shamim I	Mech. Engg	PT – E
21	Jerold Jose P	MECH	PT – I	Shanavas S	Mech. Engg	PT – E
22	Joe Jeba Rajan K	MECH	PT – I	Skariya P D	Mech. Engg	PT – E
23	Pradeep P	MECH	PT – I	Unnikrishnan M A	Mech. Engg	PT – E
24	Selvan Nambi S	MECH	PT – I	Vishnu S	Mech. Engg	PT – E
25	Unni Krishnan A	MECH	PT – E	Anoop Kumar S	Mech. Engg.	PT – E

40. Number of post graduate students getting financial assistance from the university

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes,Based on the wide openings from abroad and feedback from aluminis and suggestion from expert in this field effort taken by the management, we started B.Tech Fire Technology and Safety Engineering.

42. Does the department obtain feedback from :

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The Faculty members are requested to give their inputs for the revision and upgradation of syllabus periodically and the same are included suitably in the curriculum in consultation with the Board of Studies Members.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

At the end of every semester, the feedback from students on the programme as a whole and the contents of syllabus and also on the teachers are obtained and their feedback are taken into consideration for overall improvement of curriculum suitably.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Periodically the course contents are sent for critical evaluation by the alumni and the suggestions are well taken for the updation. Alumni and industrial resource person's feedback will be utilized during the curriculum reforms. Also their suggestions for improving both the staff

and students knowledge on industrial needs will be utilized in order to mould the students for
industry needs

43. List the distinguished alumni of the department (maximum 10) :

S.NO	Name of the Alumni	Current position
1.	Mr. Dawning Jeeva	Custom Aircraft designer, Jet Aviation, Switzerland
2.	Mr.Arun Kumar	SPIC,Tuticorin
3.	Mr.Srinivasan	Senior Engineer, Blue Star,Chennai
4.	Dr.Arokia Jaswin	Professor & Head/Mech., Aksaya Engineering College, Chennai
5.	Dr.Herbert	Senior Engineer, Danfoss Industries
6.	Dr.ChandraMohan	NIT Warangal
7.	Mr.N.Venukumar	Managing Director,Falcon Automotive India Pvt Ltd, Chennai
8.	Mr.Vinil Kumar	Senior Engineer,Ashok Leyland, Chennai
9.	Mr.Mohammed Shainsha	TCS
10.	Mr.Muhammed sarjun. S	HVAC site Engineer

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Special Lectures

Sl.No	Date	Title	Guest
1	15-03-2011	Way to success	Mr.K.Vinoth Babu
2	29-10-2011	Born to Win	Dr.V.Umaiorupagan
3	07-10-2013 & 08-10-2013	Production Support System	Mr.Williams
4	18-08-2014	Mechanisms for students satellite	Mr.Francis E.J
5	19-09-2014	Counseling of students	Dr.Sachin Jain
6	16-10-2014	Guest lecture on desalination technologies	Dr.A.E.Muthunayagam
7	06-01-2015	Guest lecture on Motivation, Decision Making and Organizational Culture	Dr.Umaiourubagan
8	07-02-2015	Guest lecture on Technology Forecasting and Technology	Dr.K.Ganesh

		Assessment	
9	12-02-2015	Guest lecture on Aerospace Technology	Padmabhushan Dr.A.Sivathanu Pillai

Endowment Lectures :

Endowment	Title
Prof.C.K.Kingselvan	Advances in thermal Engineering

Workshops

S.no	Name of the Event	Date	Collaboration With
1	One day Workshop on Basic communication skills and aptitude training	24-02-2011	----------
2	Three Days Workshop on CFD	20-9-2012 to 22-9-2012	ISTE Chapter
3	Placement Training Programme	6-9-2012 to 8-9-2012	ACHIEVERSSPRO, Chennaii
4	Short Term Training Program on Finite Element Analysis Using PRO/MECHANICA	6-8-2012 to 8-8-2012	----------
5	Short Term Training Programme on Pro Engineer	2-2-2012 to 3-3-2012	Mosima Training Institute Madurai and PTC
6	Short Term Training Programme on Pro Engineer	19-9-2011 to 19-10-2011	Mosima Training Institute Madurai and PTC
7	Short Term Training Programme on Uni-Graphics NX 6	2-9-2011 to 15-9-2011	Adroit CAD Solutions Pvt.Ltd,Chennai and Siemns
8	3 Days Soft Skills Training Programme	22-7-2011 to 24-7-2011	RIPE Institute, Chennai
9	CNC Machining	28-02-2013 To 02-03-2013(10.00AM to 4.30PM)	
10	Entrepreneurship Development Program	25-03-2015 To 26-03-2015(10.00AM	CERD

		to 4.30PM)	

45. **List the teaching methods adopted by the faculty for different programmes**.
- Using Power Point Presentation
- Using Live Videos
- Make Use of NTPL Notes
- Subject Text books and references
- Seminars from industrial experts
- Subject related industrial visit

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department has a continuous assessment system for all programs and each student will have to appear for 3 assessments for each course. The course instructor will monitor the performance of students to ensure that the program objectives are met with. Further there is a class committee of all faculty members handling classes for the class and chaired by a senior professor. The periodic assessment record will be also scrutinized and corrective measures are taken depending upon the performance of the candidates · In order to gain practical knowledge in each course, the course instructors take them for industrial visits periodically which will be normally one per subject per semester.

47. Highlight the participation of students and faculty in extension activities :
- Special Lectures are Organised and delivered
- National seminars/conferences are organized
- Skill set training programmes are organized through continuing education cell
- Exhibitions for the public in collaboration with ISRO,NPCIL,BRAHMOS and other government organisation regularly organized

48. Give details of "beyond syllabus scholarly activities" of the department
- Regular Industrial visits are organized every year.
- Special lectures are delivered, periodically, by eminent scholars from both National and International institutes.
- Special lectures are arranged by inviting company personalities to have industrial interaction.
- Inplant Training is compulsory for all and carries a credit.
- The department regularly conducts national and international workshops and conferences.In addition, a Research Colloquium is regularly organized in which research scholars deliver seminars on the latest developments in the field.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- The Department of Mechanical Engineering is actively engaged in research in Materials joining, Surface Engineering Composite Materials and Eco-Friendly Materials.
- Extensive research is in progress in the area of Materials Joining of newer materials and Conventional welding processes, Laser Beam Welding and Diffusion Bonding.
- Manufacturing of polymer based nano-composites is also under investigation.
- Research work are going on in the field of IC engines especially in the alternative fuels and emission control to find suitable additives to reduce the harmful greenhouse gas emission from IC engines.
- As well as the research is going on in the field of Solar Energy to find cost effective user friendly renewable gadgets.
- Research in the field of Heat Transfer and Heat Exchangers are gaining momentum so as to cater the needs of industrial demand.
- Facilities to undergo inter disciplinary courses under open elective methodology.
- The contributions in terms of research papers, discussions made with the researchers of
  other Institutions (both at National and International level) fetched collaborative projects to take up research in composite, supply chain management etc.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Established curriculum serving a broad base of students with interdisciplinary and experiential education at both the undergraduate and graduate levels.
- Up-to-date facilities and infrastructure like laboratories, teaching aids for research.
- Integration and impact of research on the learning experience of our students.
- Activities throughout the year for wholesome improvement of the students.
- Rural Students
- Publication/organization of seminars and conferences.

- Extension and outreach activities.

Weakness

- Lack of access to the corporate sectors and core industries in Mechanical Engineering.
- Exposure is less
- Poor competition of students in competitive examinations.

Opportunities :

- Becoming a leader in interdisciplinary and integrated learning.
- Use of modern technology in teaching learning process such as Computer Aided Learning (Interactive Multimedia, Internet Based Access to www resources).
- Strategic alliances and partnerships with industry & institutions for offering more professional courses.
- Extra and co-curricular activities

Challenges :

- Industrial exposure less
- On campus placements for students in both graduation and post graduation study.
- Getting funds to visit foreign universities for the purpose of attending seminars, symposia, etc and to seek more collaboration

52. Future plans of the department :

- The department intends to promote, prepare, and publish monographs, text books, occasional papers, etc., useful for researchers and students.
- Encouraging the researchers to do the research in the emerging areas of social research.
- Encouraging the faculty members and researchers to obtain various research grants for their research activities.
- Steps to increase the number of research publications at national and international level accredited journals.

Department Evaluative Report

Department of Nanotechnology



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Nanotechnology
Evaluative Report

1. **Name of the Department :** Department of Nanotechnology

2. **Year of establishment :** 2009

3. **Is the Department part of a School/Faculty of the university?**
   Faculty of Technology

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

UG	-	B.Tech	-	Nanotechnology
PG	-	M.Tech	-	Nanotechnology
		M.Phil	-	Biotechnology
Ph.D	-	Ph.D	-	Nanotechnology

5. **Interdisciplinary programmes and departments involved :**
   B.Tech (Nanotechnology)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	EG101 Technical English-I	1st	English
2.	MA101 Applied Mathematics-I	1st	Mathematics
3.	PH101 Engineering Physics-I	1st	Physics
4.	CH101 Engineering Chemistry-I	1st	Chemistry
5.	ME101 Engineering Graphics	1st	Mechanical Engineering
6.	CS101 Fundamentals of Computing and Programming	1st	Computer Science and Engineering
7.	CS171 Computer Practice Lab I	1st	Computer Science and Engineering
8.	PH171-Physics Lab-I	1st	Physics
9.	CH171-Chemistry Lab-I	1st	Chemistry
10.	CV171-Civil Lab	1st	Civil Engineering
11.	ME171-Mechanical Lab	1st	Mechanical Engineering
12.	ME172-Computer Aided drafting and Modelling Lab	1st	Mechanical Engineering
13.	EG102 Technical English-II	1st	English
14.	MA102 Applied Mathematics-II	1st	Mathematics
15.	PH102 Engineering Physics-II	1st	Physics

16.	CH102 Engineering Chemistry-II	1st	Chemistry
17.	ME102 Engineering Mechanics	1st	Mechanical Engineering
18.	CV101-Basic Civil Engineering	1st	Civil Engineering
19.	ME103-Basic Mechanical Engineering	1st	Mechanical Engineering
20.	EE101-Basic Electrical Engineering	1st	Electrical and Electronics Engineering
21.	EC101-Basic Electronics Engineering	1st	Electronics and Communications Engineering
22.	CS172 Computer Practice Lab II	1st	Computer Science and Engineering
23.	PH172-Physics Lab-II	1st	Physics
24.	CH172-Chemistry Lab-II	1st	Chemistry
25.	EE171-Electrical Lab	1st	Electrical and Electronics Engineering
26.	EC171-Electronics Lab	1st	Electronics and Communications Engineering
27.	MA1202 - Numerical Methods and Transforms	2nd	Mathematics
28.	NT1201- Basic Quantum Mechanics	2nd	Physics
29.	MA1206 - Random Processes	2nd	Mathematics
30.	MS1201- Environmental Science	2nd	Management studies
31.	MS1202 - Professional and Business Ethics	3rd	Management studies
32.	CS1216 - Cyber Security	3rd	Information technology

M.Tech (Nanotechnology)

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1	MA1501 – Advanced Mathematics	1st	Mathematics

M. Phil (Biotechnology)

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1	GE401- Teaching Methodology	1st	Management Studies

6. **Courses in collaboration with other universities, industries, foreign institutions, etc :** Nil

7. **Details of programmes discontinued, if any, with reasons :** Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**
   Semester / Choice Based Credit System

9. **Participation of the department in the courses offered by other departments :** NIL

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate / Professors/Asst. Professors/others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professors	2	2	2
Asst. Professors	7	7	7
Others –	-	-	-

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :**

Name	Qualification	Designation	Specialization	No. Of years of experience	No. Of PhD/ MPhil students guided for last four years
Dr. S. Balamurugan	M.Sc., Ph. D	Associate Prof	Material Sciences	3.5	Ph.D-doing 1
Dr. Praseetha. P.K	MSc., Ph. D	Associate Professor & Head	Nano biotechnology	8.5	Ph. D: Awarded – 1, Doing - 5 M. Phil.: Awarded-

					9, Doing – 3
Mr. S. Gobalakrishnan	M.Sc., M. Tech.	Assistant Professor	Physics and Nanotechnology	5	
Mr. R.S. Rimal Isaac	M. Tech	Assistant Professor	Industrial Biotechnology	6	
Dr. K. A. Saju	M. Phil., Ph.D	Assistant Professor	Marine Biotechnology	12	
Ms. V. Jayasankari	M. Tech., B. Tech.,	Assistant Professor	Pharmaceutical Nanotechnology	2	
Ms. T.K. Sreeja	ME	Assistant Professor	Communication systems	5	
Ms. Jeba Shiney.O	M.E	Assistant Professor	Digital Communication and network Engineering	8	
Mr.Sanjith. S	M.Sc., M. Tech	System Analyst		-	

Faculty associated with Nanotechnology from other departments

Name	**Qualification**	**Designation**	**Specialization**	**No. Of years of experience**	**No. Of PhD/ MPhil students guided for last four years**
Mrs. M. Sudha	M.Sc., M.Phil., B.Ed., Ph.D	Asst. Prof.	Graph Theory	7y	01

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information :

Sl. No	**Name of the Programme**	**% of Classes taken by temporary faculty**
1	B.Tech	9%

14. Programme-wise Student Teacher Ratio

Sl. No	Name of the Programme	Student Teacher Ratio
1	B.Tech	15:1
2	M.Tech	12:1
3	M.Phil	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Post	Sanctioned	Filled	Actual
Lab assistant	2	2	2
System analyst	1	1	1

16. Research thrust areas as recognized by major funding agencies :

- Hydrophobic silica Solar cell applications
- Nanomaterials for Nanotechnology applications
- Nanobiotechnology for sensors and drug delivery applications

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Principal Investigator	Sponsoring agency	Title of the project	Duration &Year of sanctioning	Amount
Dr.P.Venugopalan	VSSC/ISRO	Production of hydrophobic nanosilica for reusable launch vehicles	2.0 (2012)	14 lakhs
Dr.S.Balamurugan	DST - Fast Track	Fabricating oxide nano-structured materials	3.0(2012)	26.5 lakhs
Dr.S.Balamurugan	DAE-BRNS	Nano Metalo-Cuprates: An Entry to Nanotechnology	3.0(2012)	22 lakhs
Dr.S.Balamurugan	TNSCST	Nano - hexa ferrites, for hyperthermia applications	1.0(2013)	2 lakhs
Dr.V.L. Joseph Joly	DST - Fast Track	Synthesis and characterization of nano graphene	3(2012)	20 lakhs
Dr.V.L. Joseph joly	DST-Indo-Taiwan	Nanographene rich carbon materials	3(2012)	18 lakhs

18. Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration :

NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

NIL

20. Research facility / centre with

- **state recognition - Nil**
- **national recognition - Nil**
- **international recognition - Nil**

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Sl.No	Name of the Special Research Lab	Sponsored By
1	Advanced Nanomaterials Laboratory	DST, BRNS, DAE
2	Nano Characterization Laboratory	NICHE

22. Publications

- Number of papers published in peer reviewed journals (national / international) : 62
- Monographs : Nil
- Chapters in Books : Nil
- Edited Books : Nil
- Books with ISBN with details of publishers : 1
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) : 31
- Citation Index – range / average : Total No. of Citations = 101
- SNIP : 21.453
- SJR : 13.1
- Impact Factor – range / average : 0.1 – 3.54 / Total I.F. =39.4, average = 0.635
- h-index : 10

Sl. No	Author, Title of the paper	Vol No, Page No, Year	Name of the Journal	Impact Factor
1.	Praseetha P.K., Sangeetha V.S., Chandraja C.V., Ruskin Shabi, Anupa M.P. Actinomycetes – A Future Promise in Cleaning up Industrial Pollutants	4, 1-10 2010	Int. Jr. of Agri.Env. & Biotech	-

2.	LekshmiGangadhar, P.K.Praseetha, Murthy S.Chavali, Trends In Nanotechnology Towards The Diagnosis And Cure Of Arthritis	Vol. 5, Issue 3 & 4 2011	Nano Science & Nano Technology : An Indian Journal	-
3.	P.K.Praseetha, V.S.Sugunan, R.Ramesh- Anti- Cancer Compounds From Actinomycetes Inducing DNA Damage In Cancer Cell Lines	6(2), 70-76 2012	Research & Reviews InBioSciences	-
4.	Praseetha P. K, Supriya C. V, Chandraja C. V, Vijayalekshmi B, Murthy S. Chavali- Biosynthesis of titanium nanoparticles and their role in killing colon cancer cells	3/5 2012	Journal of Nanoscience Letters	0.3
5.	P. Arsula Rose,SunithaAbdeen, P. K. Praseetha- Inhibition of bacterial cultures by gold nanoparticles synthesized through PLECTRANTHUS AMBOINICUS mediated green route	14/1 19-23 2012	Nano Trends: A Journal of Nanotechnology and Its Applications	-
6.	Praseetha P.K, Sugunan V.S, Shabi R, Jegadambikadevi. S- Stress response of Actinomycetes to toxins in their bioremediation processes	2/5 657-664 2012	Journal of Microbiology and Biotechnology Research	-
7.	Praseetha - P.K., Anand S. Thampy, Venugopalan P., Murthy S. Chavali- Molecular Nanobiotechnological approaches for the detection and therapy of prion related diseases	4/2 50-57. 2012	Nano Biomedicine and Engineering	-
8.	SunithaAbdeen, Sweetly Geo, Sukanya, Praseetha P.K. , Dhanya R.P- Biosynthesis of silver nanoparticles from Actinomycetesfor therapeutic applications	5/2 2013	International Journal of Nanodimension	0.3
9.	SunithaAbdeen, Rimal Isaac R.S, Sweetly Geo, Sornalekshmi S., Arsula Rose,	5/1 39-45	Nano Biomedicine and Engineering	-

	Praseetha P.K.- Evaluation of antimicrobial activity of biosynthesized iron and silver Nanoparticles using the fungi Fusariumoxysporum and Actinomycetes sp. On human pathogens	2013		
10.	Arsula Rose, Praseetha P.K and Sunithaabdeen- Inhibition of bacterial cultures by gold nanoparticles synthesized through Plectranthusamboinicus mediated green route	14/1 19-23 2013	Nanotrends Journal	-
11.	Praseetha P.K., Princy Alexander- Targeted drug loaded liposomal nanoparticles for breast cancer cell lines.	1/9 5-14 2013	Wide spectrum journal	-
12.	Anupa M. P., Sangeetha V. S., Praseetha P.K., Emelda J. J., Jabaslin E. E. and Sugunan V. S.- Anticancer enzymes from actinomycetes enhance therapy of tumor induced Mice	3 /2 41-50 2013	J. Microbiol. Biotech. Res	-
13.	SunithaAbdeen and Praseetha P.K- Diagnostics and Treatment of Metastatic Cancers with Magnetic Nanoparticles	3:2 115-125 2013	J. Nanomedicine BiotherapeuticDiscov.	0.5
14.	Sukanya M. K., Saju K. A, P. K. Praseetha, and G. Sakthivel. Therapeutic Potential of Biologically Reduced Silver Nanoparticles from Actinomycete Cultures	1:1-8,2013	Journal of Nanoscience.	0.1
15.	Arsula Rose, Praseetha P.K.,Princy Alexander, Sunitha abdeen, Madhulika Bhagat and Murthy Chavali. Drug embedded PVP coated magnetic nanoparticles for targeted killing of Breast cancer cells	12(5): 463- 472. 2013	Technology in Cancer Research and Treatment	1.9
16.	Chandraja C.V, Sridevi K. and Praseetha P.K*, Gopu Kumar S.T., Bioremediation of crude oil and hydrocarbons by	6(5): 1066-1071,	J. of Chem. and Pharma. Res	0.2

	actinomycetes with the enhanced production of bioactive compounds	2014		
17.	Chandraja C V, G Immanuel, Sangeetha V S, Greeshma SU, Anupa M P, Shabi Ruskin, PraseethaP K- A study on petroleum degrading gordonia gpcvc1 isolated from pondicherry coast.	Volume 4 (1): 41 – 47, 2014	International Journal of Biotechnology and Biosciences	-
18.	Shabi Ruskin R., V.M. PriyaKumari, S.T. Gopukumar, P.K. Praseetha. Evaluation of Phytochemical, Anti-Bacterial and Anti-Cancerous Activity of Cissus quadrangularis from South-Western Ghat Regions of India	28(1), 3, 12-15, 2014	Int. J. Pharm. Sci. Rev. Res.,	0.3
19.	RS Isaac, U Manjusree Nair, PK Praseetha., An electrochemical DNA-Prussian Blue-Carbon Paste Biosensor for the detection of Ascorbic acid in Pharmaceuticals, Control, Instrumentation, Communication and Computational Technologies	55-59, 2014	Control, Instrumentation, Communication and Computational Technologies-IEEE	-
20.	S.T. Gopukumar, P.K. Praseetha.,Ficus benghalensis Linn – The Sacred Indian Medicinal Tree with Potent Pharmacological Remedies	32(1), 223-227, 2015	Int. J. Pharm. Sci. Rev. Res.,	0.3
21.	Rimal Isaac R S, Subin S, Prakash P and Praseetha P K., Modeling of Concrete Composite Induced by Multi-walled Carbon Nanotubes Using Response Surface Methodology.	17, 8-13, 2016	International Journal of Engineering Research in Africa	-
22.	Rimal Isaac and Praseetha P.K., Response Surface Optimization of MWCNT modified Carbon Paste Electrode for Zn(II) Determination	10, 7303-7319, 2015	International Journal of Electrochemical Science. 10, 7303-7319, 2015	1.5

23.	S. Balamurugan, Impact of Tuning Molar Ratio in the Starting Materials: Magneto-Transport Features of Hybrid $YSr_2Ru_{0.9}Cu_{2.1}O_{7.9}$	24, 1633-1641 (2011).	J. Supercond. Nov. Magn.,	0.93
24.	SarkarainadarBalamuruganPhysical-Properties of Oxygen-deficient Co-Based Perovskites: $Co(Sr_{1-x}Y_x)O_{3-\delta}$ ($0.05 \leq x \leq 0.4$)	1, 145-152 (2011).	World J. Condens. Matter Phys.,	-
25.	S. BalamuruganStructural and Magnetic Properties of $YBa_2Ru_{0.85}Cu_{0.15}O_6$ and $Sr_2Re_{0.69}Ca_{0.31}CuO_6$Perovskites.	25, 495 - 501 (2012).	J. Supercond. Nov. Magn.,	0.93
26.	S. BalamuruganSyntheses and Magnetic-Properties of Zn-Diluted Sr-Based Perovskite Cobalt Oxides, $Sr_{1-x}Zn_xCoO_3$; $0.05 \leq x \leq 0.3$	25, 1603 - 1609 (2012).	J. Supercond. Nov. Magn.,	0.93
27.	S. BalamuruganImpact of Ce Doping on the Magnetic and Transport Properties of $Y_{1-x}Ce_xSr_2Ru_{0.9}Cu_{2.1}O_{7.9}$; x = 0.05 and 0.1	26 1250157 (1-13) (2012).	Int. J. Mod. Phy. B	0.72
28.	S. BalamuruganPhysical Properties of Mo-Doped $Cu(Re_{0.69-x}Mo_xCa_{0.31})Sr_2O_6$, x = 0.1 to 0.6 CupratePerovskites	27 - 33 (2014).	J. Supercond. Nov. Magn.,27,	0.93
29.	S. Balamurugan, P. Parthiban, M. Gopalakrishnan, K. Senthilkumarand N. Palanisami, Optical, Photocatalytic and (Micro)-Structural Studies ofBall Milled CeO_2 Nanomaterials	6, 991 - 1000 (2014).	Adv. Sci. Eng. Med.,	-
30.	S. Balamurugan, L. Ashna, and P. Parthiban, Synthesis of NanocrystallineMgO Particles by Combustion Followed by Annealing Method Using Hexamine as a Fuel	1 - 6 (2014).	J. Nanotechnology,	-

31.	S. Balamurugan, and K. Melba $Zn_{1-x}Cu_xO$ ($0.02 \leq x \leq 0.1$) Nanomaterials Prepared by Ball Milling, Citrate Sol Gel, and Molten Salt Flux Methods	15, 4632 - 4640 (2015)	J. Nanosci. Nanotechnol	1.556
32.	S. Balamurugan, K. S. Asha Mini, T. S. Gokul Raj, and P. Parthiban Mechano-Thermal Synthesis and Characterization of $BaMnO_3$ Nano-needles	15, 5978 - 5986 (2015).	J. Nanosci. Nanotechnol	1.556
33.	S. Balamurugan, A. J. Linda Philip, V. SherlyArputhaKiruba, and K. Veluraja, Simple and Efficient Way of Synthesizing NiO Nanoparticles by Combustion Followed by Ball Milling Method	7, 89 - 93 (2015).	Nanosci. Nanotechnol. Lett.	1.444
34.	S. Balamurugan, B. C. Brightlin, and V. SherlyArputhaKiruba, Synthesis of $BaFe_{12}O_{19}$ Materials by Mechano -Thermal Route: Novel Inorganic Pigment with High Near-Infrared Reflectance	15, 1-6 (2015)	J. Nanosci. Nanotechnol	1.556
35.	S. Balamurugan, K. Dheebikha, and T. S. Gokul Raja, Nanocrystalline $Gd_2Ti_2O_7$Pyrochlore Material for NIR Reflective Pigment Application: Micro-Structural and Optical Studies	15, 1 - 6 (2015)	J. Nanosci. Nanotechnol	1.556
36.	P. Parthiban, S. Balamurugan, A. T. Satya, and J. Janaki, Micro-Structural, Thermal, Optical and Physical Properties of Nanocrystalline $NbSr_2Pr_{1.5}Ce_{0.5}Cu_2O_{10-\delta}$ Material Synthesized by Mechano-Thermal Method	1665, 050158 (1-3) (2015).	AIP Conf. Proc.	-

37.	T.S. Gokul Raja, S. V. Sreenija, and S. Balamurugan, Eco-Friendly Synthesized Nanocrystalline $CoFe_2O_4$ Materials by Molten Salt Flux Method	1665, 050174(1-3) (2015).	AIP Conf. Proc.	-
38.	P. Parthiban, and S. Balamurugan, Novel Combustion Synthesis, Photo-Catalytic, and Antibacterial Studies of nanocrystalline $TaSr_2EuCu_2O_8$ Materials	7, 126 - 133 (2015).	Adv. Sci. Eng. Med.,	-
39.	S. Balamurugan, and S. P. Resmi, Synthesis of Nanocrystalline $BaFe_{12}O_{19}$ Materials by Co-precipitation Method using KOH and K_2CO_3 as Precipitating Agent	7, 183 - 189 (2015).	Adv. Sci. Eng. Med.,	-
40.	P. Parthiban, and S. Balamurugan, Synthesis, Micro-Structural and FT-IR Studies of Ball Milled-Annealed NanocrystallineRutheno-Cuprate, $RuSr_2EuCu_2O_{8-\delta}$	7, 506 - 509 (2015).	Adv. Sci. Eng. Med.,	-
41.	S. Balamurugan, and S. V. Sreenija, Studies on Monoclinic Zirconia (ZrO_2) Powder Heat Treated with NaCl Flux and Its NIR Reflective Pigment Application	7, 1 - 6 (2015)/accepted article in press.	Adv. Sci. Eng. Med.,	-
42.	Hung-JieLiou, Gobalakrishnan Suyambrakasam, Te-Chin Tsai, Ren-Jang Wu, Murthy Chavali,Preparation of nanostructured organic/inorganic polymer hybrids and their humidity sensing properties”	42, Issue 5, 868–873, Sep 2011	Journal of the Taiwan Institute of Chemical Engineers	2.084
43.	Ming-Ru Yu, Gobalakrishnan Suyambrakasam, Ren-Jang Wu, Murthy Chavali,	161, 938-947, 2012	Sensors and Actuators B	3.535

	Preparation of organic–inorganic (SWCNT/TWEEN–TEOS) nano hybrids and their "NO" gas sensing properties			
44.	I-Chun Yao, Xiang-Hong Zheng, Ren-Jang Wu, Gobalakrishnan Suyambrakasam, and Murthy Chavali, Novel Nano In2O3–WO3 Composite Films for Ultra Trace Level (ppb) Detection of NO Gas at Room Temperature,	Vol. 17 No.1, 78-81, Oct 2012	Advanced Science Letters	1.253
45.	K. Saravanakumar, K. Ravichandran, R. Chandramohan, S. Gobalakrishnan, Murthy Chavali., Investigation on simultaneous doping of Sn and F with ZnO nanopowders synthesized using a simple soft chemical route.	52, 528-540, 2012	Superlattices and Microstructures	1.564
46.	Ming-Ru Yu, Ren-Jang Wu, Gobalakrishnan Suyambrakasam, Joseph Joly, and Murthy Chavali. Evaluation of Graphene Oxide Material as Formaldehyde Gas Sensor.	16, 53-57, Sep 2012	Advanced Science Letters,	1.253
47.	Ming-Ru Yu, Gobalakrishnan Suyambrakasam, Ren-Jang Wua, Murthy Chavali Performance evaluation of ZnO–CuO hetero junction solid state room temperature ethanol sensor,	47, Issue 7, 1713-1718, July 2012	Material Research Bulletin	1.913
48.	Prabu, M.; Banu, I. B. Shameem; Vijayaraghavan, G. V.; Gobalakrishnan, S.; Chavali, Murthy, Pulsed Laser deposition and	13, No.3, 1938-1942, March 2013	Journal of Nanoscience and Nanotechnology	1.56

	Ferroelectric Characterization of Nanostructured Perovskite Lead			
49.	Prabu, M.; Banu, I. B. Shameem; Gobalakrishnan, S.; Chavali, Murthy; Umapathy, S Synthesis and Optical Characterization of Lead ZirconateTitanate (52/48) Powders by Sol-Gel Method	Volume 5, Number 5, 496-499, May 2013	Advanced Science, Engineering and Medicine,	-
50.	Prajith. R. P, Ganesan R, Gobalakrishnan S, Design of Electroencephalogram Sensor for Long-Term Bio-signal Measurement	Vol 2, Issuee 3, 198-206, May 2013	International Journal of Latest Trends in Engineering and Technology (IJLTET)	-
51.	M Prabu, IB ShameemBanu, D Kannan, S Gobalakrishnan, Murthy Chavali Ferroelectric studies and impedance analysis of PLZT (10/52/48) electroceramics	Vol. 24, Issue 5, 1556-1561, May 2013	Journal of Materials Science: Materials in Electronics	1.486
52.	Rimal Isaac, Suyamprakasam Gobalakrishnan, GopikaRajan, Ren-Jang Wu, Sudhakar Reddy Pamanji, MukkantiKhagga, VaseeharanBaskaralingam, Murthy Chavali, An Overview of Facile Green Biogenic Synthetic Routes and Applications of Platinum Nanoparticles	Vol. 5, Issue 8, 763-770, Aug 2013	Advanced Science, Engineering and Medicine	-
53.	R.S. Rimal Isaac, S. Subin, P. Prakash, P.K. Praseetha,. "Modeling of Concrete Composite Induced by Multi-Walled Carbon Nanotubes Using Response Surface Methodology"	Vol. 17, pp. 8-13, 2015	International Journal of Engineering Research in Africa	0.277

54.	Rimal Isaac, Praseetha P K. Response Surface Optimization of MWCNT modified Carbon Paste Electrode for Zn(II) Determination	10, 7303-7319, 2015	International Journal of Electrochemical Science	1.500
55.	Chakraborty D, Rajan G,RimalIsaac R. S. A Splendid Blend of Nanotechnology and Forensic Science	6(1):010801-010801-6, 2015	ASME. J. Nanotechnol. Eng. Med.	0.294
56.	Sanjith, S., Ganesan, R., &Rimal Isaac, R. S. Experimental Analysis of Compacted Satellite Image Quality using different Compression Methods	7(3), 227-233, 2015	Advanced Science, Engineering and Medicine	0.862
57.	Isaac, R. S. R., Sakthivel, G., & Murthy, C. Green Synthesis of Gold and Silver Nanoparticles Using Averrhoabilimbi Fruit Extract	2013, 6	Journal of Nanotechnology	0.355
58.	Rimal Isaac, R.S.,SuyamprakasamGobalakrishnan, RajanGopika, Ren-Jang Wu, PamanjiSudhakar Reddy, MukkantiKhagga, VaseeharanBaskaralingam, Chavali Murthy. An Overview of Facile Green Biogenic Synthetic Routes and Applications of Platinum Nanoparticles	5(8), 763-770, 2013	Advanced Science, Engineering and Medicine	0.862
59.	Sunitha Abdeen, Rimal Isaac R.S, Sweetly Geo, Sornalekshmi S., Arsula Rose, Praseetha P.K.,. Evaluation of antimicrobial activity of biosynthesized iron and silver Nanoparticles using the fungi Fusarium oxysporum and Actinomycetes sp. On human pathogens	5(1), 39-45, 2013	Nano Biomedicine and Engineering	0.299
60.	Sakthivel, G., Amitabha Dey, Nongalleima, Kh., Murthy Chavali, Rimal Isaac, R.S., Surjit Singh, N., & Deb, Lokesh.. In Vitro and In Vivo Evaluation of Polyherbal Formulation against Russell's Viper and Cobra Venom and Screening of Bioactive	2013, Article ID 781216	Evidence-Based Complementary and Alternative Medicine	1.880

	Components by Docking Studies			
61.	Rimal Isaac, R.S., SriBindu, M.C., Sudhakar Reddy, P., Joseph Joly, V.L., Wu, R.J., & Murthy, Ch S SS.. Halogen Substituted Chalcone as Potential Antioxidant: An In Vitro Study	4(6), 499-505, 2012	Advanced Science, Engineering and Medicine	0.862
62.	Rimal Isaac, R.S., Aparna Nair, S., Varghese, Elize, &Chavali, Murthy. Phytochemical, Antioxidant and Nutrient Analysis of Medicinal Rice (OryzaSativa L.) Varieties Found in South India	11(1), 86-90, 2012	Advanced Science Letters	0.451

23. Details of patents and income generated :

Dr. P. Venugopalan

Indian patent no. 174078. dated 20-06-1991—A PROCESS FOR THE PRODUCTION OF HIGH PURITY PRECIPITATED SILICA FROM RICE HUSK ASH

24. Areas of consultancy and income generated :

Research Consultancy

Name of the faculty	Year	Income generated
S. Gobalakrishnan	2013-2014	1,00,570
S. Gobalakrishnan	2014-2015	1,15,520

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Name of the Faculty	Lab visited
Mr. S. Gobalakrishnan	Centre for Nanoscience and Technology, JNTU, Hyderabad
Mr. S. Gobalakrishnan	IISc Bangalore – Centre for nanoelectronics
Mr. R. S. Rimal Isaac	IISc Bangalore – Centre for nanoelectronics
Dr. P. K. Praseetha	IISc Bangalore – Centre for nanoelectronics

26. **Faculty serving in**

a) **National committees b) International committees c) Editorial Boards d) any other (please specify**) :

Editorial Boards

Sl. No.	Name of the faculty	Journal Name
1.	Dr. S. Balamurugan	American Open Nanomaterials Journal
2.	Dr. S. Balamurugan	American Open Nanoscience Journal
3.	Dr. S. Balamurugan	American Open Nanomedicine Journal
4.	Dr. S. Balamurugan	American Open Condensed Matter Physics Journal
5.	Dr. S. Balamurugan	American Open Superconductors Journal
6.	Dr. S. Balamurugan	American Open Materials Science Journal
7.	Dr. S. Balamurugan	Research Open Journal of Materials Chemistry
8.	Dr. S. Balamurugan	Open Journal of Ceramic Engineering Research
9.	Dr. S. Balamurugan	Research Open Journal of Advanced Nanomaterials
10.	Dr. S. Balamurugan	International Research Journal of Nanomaterials
11.	Dr. S. Balamurugan	Global Open Journal of Condensed Matter Physics
12.	Dr. S. Balamurugan	World Open Journal of Carbon Nanotechnology
13.	Dr. S. Balamurugan	American Journal of Nanoscience
14.	Dr. S. Balamurugan	International Journal of Condensed Matter Physics
15.	Dr. S. Balamurugan	International Journal of Nanomaterials
16.	Dr. S. Balamurugan	International Journal of Materials Science Research
17.	Dr. S. Balamurugan	Scientific Journal of Physical Science
18.	Dr. S. Balamurugan	ISRN Condensed Matter Physics
19.	Dr. S. Balamurugan	World Journal of Condensed Matter Physics
20.	Dr. S. Balamurugan	Journal of Physics & Astronomy
21.	Dr. S. Balamurugan	Journal of Chemical Engineering and Materials Science
22.	Dr. S. Balamurugan	The Open Superconductors Journal
23	Dr. P.K. Praseetha	Journal of Nanoscience
24	Dr. P.K. Praseetha	Journal of nanomedicine and Biotherapeutic discovery
25	Dr. P.K. Praseetha	British Microbiology Research Journal
26	Mr. R.S. Rimal Isaac	“Medicinal Chemistry Reviews” by Springer publications

27	Mr. R.S. Rimal Isaac	Conference Proceedings in the journal "Material Science and Engineering" for ICMOC 2014 by scientific.net
28	Mr. R.S. Rimal Isaac	"SOP Transactions on Nano-technology" by Scientific Online Publishing
29	Mr. R.S. Rimal Isaac	"Annual Research & Review in Biology" by Science Domain International
30	Mr. R.S. Rimal Isaac	"Open Journal of Biochemistry" by Scientific Online Publishing
31	Mr. R.S. Rimal Isaac	"Open Journal of Renewable Energy and Sustainable Development" by Scientific Online Publishing

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

The following recharging strategies are adapted by the University to refresh the knowledge and provide exposure to latest developments in the areas of interest of the Faculty members:

Organizing faculty development program every year by the department of Human resource and development.

Providing opportunities for the faculty to attend summer and winter schools organized by leading institutions and research institutes.

Providing incentives for the faculty with publications in peer reviewed journals.

28. Student projects :

- percentage of students who including inter-departmental projects / percentage of students who have done in-house projects including inter-departmental projects

In- house projects

Year	**Percentage of Students have done in-house projects**	**percentage of students doing projects in collaboration with other universities / industry / institute**
2014-2015	100%	0%
2013-2014	100%	0%
2012-2013	100%	0%
2011-2012	85.7%	14.3%
2010-2011	62.5%	37.5%

29. Awards / recognitions received at the national and international level by :

Sl. No.	Name of the faculty	Awards Received	
		National level	**International level**
1	Dr. P. Venugopalan	Outstanding Chemical Engineer Award For The Year 2008 From The Indian Institute of Chemical Engineers, Kochi Chapter	
2	Dr. S. Balamurugan		**Alexander von Humboldt (AvH) Research Fellow** by Alexander von Humboldt (AvH) Foundation, **GERMANY** (April 2009 – March 2010).
3	Dr. S. Balamurugan		**Alexander von Humboldt (AvH) Research Fellow** by Alexander von Humboldt (AvH) Foundation, **GERMANY** (January 2008- December 2008).
4	Dr. S. Balamurugan		**MARQUIS Who's Who in the World 2006** (23rd) Edition
5	Dr. S. Balamurugan		**NIMS post – doctoral research fellowship** awarded by National Institute for Materials Science, Tsukuba, **JAPAN** (March 2004 – August 2007).
6	Dr. S. Balamurugan		**MEXT (Monbusho) special researcher fellowship** awarded by Ministry of Education, Culture, Science and Technology, Government of **JAPAN** (October 2002 – March 2004).

7	Dr. S. Balamurugan	**Senior Research Fellowship (SRF)** awarded by Council of Scientific and Industrial Research (**C.S.I.R**) New Delhi, INDIA for Ph. D. programme(November 2000 – September 2002).	
8	Dr. S. Balamurugan	**Junior/Senior Research Fellowships (JRF/SRF)** awarded by Board of Research and Nuclear Science (**B.R.N.S**) / Department of Atomic Energy, Mumbai, INDIA for Ph. D programme (September 1997 – March 2000).	
9	Mr. S. Gobalakrishnan	TNSCST – Young Scientist Fellowship – 2011-2012 (Tamilnadu State)	
10	Mr. R. S. Rimal Isaac	"Outstanding Young Chemical Engineer 2007 (OYCE 2007)" award at 3rd Annual Session of Student's Indian Chemical Engineering Congress by Indian Institute of Chemical Engineering (IIChE).	
11	Dr. P. K. Praseetha	Best paper award for oral presentation in Amsco 2008- National conference, Thiruvananthapuram	
12	Dr. P. K. Praseetha	Junior research fellowship- awarded by Council of Scientific and Industrial Research (**C.S.I.R**) New Delhi, INDIA	

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any :

DBT Sponsored Workshop on Advanced Nano-Characterization Techniques as Complementary Tools for Biomolecular Applications (22^{nd} Jan 2014 – 7^{th} Feb 2014)

31. Code of ethics for research followed by the departments:

The department strives for honesty in all scientific communications. Data, results, methods, procedures and publication status are honestly reported. We do not fabricate falsely or misrepresent data. We have never deceived colleagues, granting agencies or the public. We keep promises and agreements, act with sincerity, strive for consistency of thought and action. We are interested in sharing the data, results, ideas, tools and resources. We are always open to criticism and open to ideas. The department honors patents, copyrights and other forms of intellectual property. We give proper acknowledgement or credit to all contributions for research and scholarship.

32. **Student profile programme-wise**:

Name of the Programme (refer to question no. 4)		**Applications received**	**Selected Male**	**Female**	**Pass percentage Male**	**Female**
M.Tech.	2010-11	16	3	5	33.3%	100%
	2011-12	20	3	8	66.7%	100%
	2012-13	11	3	2	75%	100%
	2013-14	4	-	1	100%	
	2014-15	6	1	-	Batch running	
B.Tech	2011-12	15	5	2	63%	100%
	2012-13	18	4	7	Batch running	
	2013-14	8	1	2	Batch running	
	2014-15	11	2	2	Batch running	

33. Diversity of students :

Name of the Programme		**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
M.Tech.	2010-11	Nil	62%	38%	Nil
	2011-12	9%	45.5%	45.5%	Nil
	2012-13	Nil	80%	20%	Nil
	2013-14	Nil	Nil	100	Nil
	2014-15	Nil	100%	Nil	Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

NIL

35. Student progression :

Student progression	**Percentage against enrolled**				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	Nil	Nil	Nil	Nil	57%
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	25%	Nil	Nil	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil	Nil
Employed • Campus selection • Other than campus recruitment	Nil 62.5%	Nil 36.36%	Nil 72%	Nil 80%	Nil 100
Entrepreneurs	12.5%	9%	-	-	-

36. Diversity of staff :

Percentage of faculty who are graduates	**2010-2011**	**2011-2012**	**2012-2013**	**2013-2014**	**2014-2015**
of the same university	Nil	Nil	Nil	Nil	Nil
from other universities within the State	50%	50%	70%		
from universities from other States	50%	50%	30%		
from universities outside the country	Nil	Nil	Nil	Nil	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Nil

38. Present details of departmental infrastructural facilities with regard to:

a) Library
Department Library has 443 Books.

b) Internet facilities for staff and students
Campus wide Wi-Fi (100 Mbps internet connection) is provided for Staff and Students.

c) Total number of class rooms
The department has 6 Class Rooms

d) Class rooms with ICT facility
1 Class Room is provided with ICT facility

e) Students' laboratories
The department has 3 labs (Nano Synthesis Lab, Nano Characterization Lab, Nano Applications Lab). The labs are equipped with Atomic Force Microscope, TG/DTA, Particle Size Analyzer, Surface Area Analyser, FTIR, UV-vis Spectrophotometer, Raman Spectrophotometer, Electrochemical Workstation, Furnaces, Hot air Over, Incubator, Autoclave, Ball mill, Sonicators, vacuum Oven, Muffle Furnace, Ultrapure Water purification system, Centrifuge.

f) Research laboratories
The department has 1 Research lab- Advanced Nanomaterials research lab

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university:

Year	Doctoral Students	Post-doctoral students	Research Associates
2014-2015	-	Nil	
2013-2014	4	Nil	
2012-2013	Nil	Nil	
2011-2012	3	Nil	
2010-2011	4	Nil	

b) from other institutions/universities :

Year	Doctoral Students	Post-doctoral students	Research Associates
2014-2015	Nil	Nil	
2013-2014	3	Nil	
2012-2013	Nil	Nil	
2011-2012	2	Nil	
2010-2011	0	Nil	

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

Yes, a new B.Tech programme in Nanotechnology has been started by the department in 2011-12 academic year after intensive evaluation and feedback taken from the external industry expert Dr. S. A. Ilangovan of VSSC, ISRO, Trivandrum and Dr. K. Jeyasubramaniam of Department of Nanotechnology, Mepco Schlenk Engineering College who are members of the Board of Studies of the department of Nanotechnology at Noorul Islam Center for Higher Education. The industry needs nanotechnology researchers for improving the quality of life of the society. Hence a B.Tech programme would initiate and enhance the enthusiasm for young students to pursue research in Nanotechnology.

42. Does the department obtain feedback from :

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, the department obtains feedback from the faculty members regarding their ideas and suggestions for changes to be made in the curriculum in order to cope up with the emerging trends and technology in nanotechnology field. The syllabus is revised once in three years (2012-13) for the M.Tech Nanotechnology programme that was started in 2009-10

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

An extensively categorized feedback is obtained from the students on staff and scrutinized by the head of the department and necessary steps are adopted immediately to improve the quality of education that is imparted to the students.

c. Alumni and employers on the programs offered and how does the department utilize the feedback?

Feedback form Alumni are obtained about the syllabus and curriculum during alumni meetings and are utilized to make revisions during the Board of studies. The future prospects for industrial and research based employability is also fetched by their suggestions.

43. List the distinguished alumni of the department (maximum 10)

Sl. No.	Name	Passed in	Email	Mobile
1	Anand .S	2011	anand.s.thampy@hotmail.com	9944765018

2	Divya S.S	2011	ssdivyabm17@yahoo.co.in	9487311945
3	LekshmiGangadhar	2011	lekshmigangadhar@gmail.com	9447112791
4	Gayathri Mohan Das	2012	pnmohandas@yahoo.co.in	8148121457
5	Nivya Rose John	2012	m.rose77@yahoo.co.in	8940427207
6	Joshi Gilbert	2012	joshigilbert@yahoo.co.in	9495665544
7	Gayathry.S	2013	s.gayas.gayatri@gmailcom	09495827067
8	Karthick. J	2013	karthikarna@gmail.com	9943753787
9	Swathy J. S.	2013	swathy.soman@yahoo.com	8281954978
10	MuhammedShafeequeRahman PP	2014	shafeequebusthan@gmail.com	9042213272

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Various invited lectures by external experts have been arranged for the benefit of the students of the department. The details are given below:

Sl.No.	Resource Person	Expert from (Institute/industry detail)	Programme	Date
1	Mr. Babu	Manager, A.P.E. Research, Area Science Park, Basovizza, Trieste, Italy	Atomic Force Microscopy and Lithography	12.08.2010
2	Mr. Bhuvaneshwar Dharmalingam	Graduate Research Associate (Chemistry) The University of Western Ontario, London(ONT), Canada	The influence of chloride ion on the corrosion of metallic Copper in aqueous anoxic sulphide solutions Supervisor: Dr. David Shoesmith	20.12.2010

3	Prof. Wu Ren Jang	Department of Applied Chemistry, Providence University, Taiwan	Evaluation of graphene oxide material as Formaldehyde gas sensor	16.02.2011
4	Keithley Instruments Inc.	WEBINAR	Mastering Low Power, Low Voltage, Low Resistance Measurement Techniques for characterizing graphene and other nanomaterials	24.03.2011
5	Mr. R. Sankar Ganesh	Department of Nanoscience & Technology, Mepco Schlenk Engineering College, Sivakasi	Sputtering Techniques	08.04.2011
6	Dr. Balamurugan Sivaraman	Astrochemistry Laboratory, Department of Physics & Astronomy, The Open University, Milton Keynes, UK	Cosmic Chemistry: Icy molecular factories in space and in the laboratory	02.05.2011
7	Apsara Innovations	WEBINAR	MedeA VASP for Ab-initio Studies – a modeling & simulation software for Nanotechnology	11.05.2011
8	Apsara Innovations	WEBINAR	DOCKING MODULE – FlexX protein-ligand docking tools FRAGMENT DRUG DESIGN – ReCore a scaffold hopping program	07.06.2011

9	Prof. Wu Ren Jang	Department of Applied Chemistry, Providence University, Taiwan	Organic – inorganic (SWCNT/TWEEN-TEOS) nano hybrids for NO gas sensing	14.07.2011
10	Dr. G. P. Krishna Mohan	Center for superfunctional materials, Pohang University of Science and Technology, South Korea	Introduction to computational chemistry in materials Simulation	11.08.2011
12	Thermo Scientific Raman Spectroscopy team	WEBINAR	Layer Thickness measurements on graphene Thin films using Raman Spectroscopy	27.09.2011
11	Dr. K. Satheesh Kumar	Regional Manager, ICON Analytical, Chennai	INSPECT S – Tools to nanotech (FEI SEM)	04.11.2011
13	Dr. Rajesh A Shenoi	PDF fellow, Center for Blood Research and Department of Pathology & Laboratory Medicine, Canada	Polymers in Nanomedicine: A nano-sized polymeric drug for reversing the Anticoagulation effect of clinically used heparin anticoagulants	30.03.2012
14	Dr. Oommen.V.Oommen	Chairman, Kerala State BioDiversity Board	Biosensor development for snake venom	22/01/2014
15	Dr. S. G. Prakash Vincent	Director, International Centre for Nanobiotechnology, ManonmaniamSundaranar University, Tirunelveli – 627012	Advances in Nanobiotechnology, Lab on a chip and microarray	22/01/2014
16	Prof. P. Selvam	National Centre for Catalysis Research, Department of Chemistry,	Nano and Nanoporous materials green synthesis	25/01/14

		IIT- Madras, Chennai – 600036.		
17	Dr. A. Sakthivel	Assistant Professor, Department of Chemistry, University of Delhi, North Campus Delhi – 110007	Synthesis and applications of nanosize and nanoporous materials	30/01/2014
18	Prof. Sushanta K. Badamali	Reader, Department of Chemistry, Utkal University, Bhubaneshwar, Odisha – 751004	NMR: The physical basis and applications	05/02/2014
19	Dr. Kalaiselvi	Principal Scientist, CECRI, Karaikudi	Future Trends in lithium batteries from materials perspective	07/02/14
20	Dr. G.S. Vijayalakshmi	Retd. Professor, Parama Kalyani Centre for Research, Alvarkurichi	Nanotechnology in ancient India	07/02/2014
21	Dr. Rajesh Kannan	Scientist 'D', Centre for Nanoscience and Nanotechnology, Sathyabama University.	Nanomedicine – Zebrafish as a model system	07/02/2014
22	Dr. D. Arivuoli	Professor, Crystal Growth Centre, Anna University, Chennai	An Introduction to Nanotechnology	21/02/2015
23	Dr. K. Jeyasubramanian	Professor, Centre for Nanoscience and Technology, Mepco Schlenk Engineering College, Sivakasi.	Applications of Nanotechnology	21/02/2015

45. List the teaching methods adopted by the faculty for different programmes:

I. Lecturing with the aid of chalkboard
II. Smart teaching using PowerPoint slides
III. Smart teaching using educational videos and flash presentations from the internet
IV. Demonstrations given by faculties using experiments, charts, graphs, tables and illustrations.
V. Group discussions for problem solving and case studies
VI. Assignments
VII. Seminars

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :

A class committee meeting is convened by a department faculty member, including faculty members and students which meet periodically to observe, ensure and scrutinize the efficacy of teaching and the corresponding outcome in the series test and internal assessment (Assignment and Seminars). Student counseling is done by the Mentor for each individual (1 mentor id assigned for each batch of students) to make the student comfortable to communicate with the mentor for help and seek his/her guidance for the betterment of the students' self improvement. Result analysis for each semester exam results are done by each faculty member for the relevant subject.

47. Highlight the participation of students and faculty in extension activities:

The students, Research scholars and the faculty members of the department work on various projects and participate in conferences/workshop/seminars and present their research work and experiences. This in turn has brought a lot of good outcomes in the research expertise of the student and faculty members of the department. A few to name are i) Workshop on Advance thin film techniques attended by our M.Tech students and Research scholar, ii) INUP familiarization workshop on Nanofabrication technologies attended by our faculty members and Ph.D. scholar. iii) Workshop on research project writing attended by one of our faculty members.

48. Give details of "beyond syllabus scholarly activities" of the department:

A handful of research projects that are funded by the different national funding agencies are carried out by the faculty members of the department. Details of the funded research projects are given below:

TNSCST- Akhil Vijay Rs. 10,000

NIUSAT- Payload team- B.Tech and M.Tech students

Experimental samples from various institutes and organizations are analysed at a nominal cost at our Nano Characterization lab which is equipped with high end instruments needed for the various types of analysis of nanomaterials.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt. of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

The major and minor projects done by each student of the department are unique and highly motivated towards innovation and scientific research. The new knowledge that are generated by the

projects done by the students and the faculty members of the department are focused in the syntheses and characterization of nanomaterials with enhanced properties for applications that are focused towards the common-man's problems. A few to name are solar cell applications, gas sensors, DNA bio sensors, herbal drug delivery, anti-cancer therapy, photovoltaics.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

The strengths of the department are

i. Well experienced and efficient faculty members from diverse academic and research and industry background for imparting a interdisciplinary knowledge in the field of Nanotechnology
ii. Well-equipped research laboratories of worth around 1 crore for the synthesis and characterization of nanomaterials.
iii. Funded research projects by government agencies are awarded to faculty members of the department which shows the research earnestness and enthusiasm for new knowledge of the individual faculty and the motivating power of the government to invest money in this area.
iv. Team work and open to new ideas and suggestions. This young department is strengthened by the oneness and the team spirit of the faculty members who are vibrant and willing to share responsibilities so that any assigned job is done fast with best results, therefore together we grow.
v. Highly motivated students who are interested in hard core research in various fields of nanotechnology rather than being job seekers.

The weaknesses of the department are

i. Industry-Institute collaborations which are very much necessary so that the students get ample exposure to the happenings in the industry which will help them for their career/ research.
ii. Job opportunities in industries for a nanotechnology graduate are scarce. Research and teaching are the only option available in India as of now.
iii. Very few Nanotechnology products have been commercialized in India which puts this field in the back row when it comes to the general awareness of the public.
iv. Even though nanotechnology has advanced in its discoveries and inventions, the society is still skeptical about the long term effects of this new technology on the mankind's health.
v. A long time and money is necessary for this budding technology to evolve and stabilize like any other engineering disciplines.

The opportunities of the department are

i. Students of the department get to develop their expertise on the operation of various expensive characterization equipments which is an opportunity available only in selected institutes in India.
ii. Students of the department make full use of the costly equipments available in our state-of-the-art characterization laboratory for their project work at free of cost which otherwise will be charged based on the type of analysis.

iii. A lot of research opportunities for scholarships and fellowships are available in foreign counties.
iv. Students can become entrepreneurs instead of seeking jobs.
v. This promising technology can provide numerous possibilities and ideas for solving the problems that are threatening the world.

The Challenges faced by the department are

i. To set up a nanofabrication laboratory is one of the major challenges. It requires huge investment so we need to establish collaboration with industries to set such infrastructure.
ii. The department need to have tie-ups with other national institutes like IISc, IIT's so that our students can gain knowledge from the facilities that are exclusively available at other research institutes.
iii. In a country like India an engineering graduate is expected to settle in a job right after completing the course. Nanotechnology industry job opportunities are not available in India for a nanotech graduate.
iv. Most R&D centers and companies prefer science graduates for job instead of engineering graduates because they can be given less pay.
v. In this rapidly evolving technology, techniques get outdated very fast. So the facilities and infrastructure should be validated frequently in order to cope up with the trends in the field.

52. Future plans of the department :

- To organize International sponsored conferences and workshops to imbibe knowledge and hands-on experience in advanced techniques and research in Nanotechnology.
- To arrange even more invited lectures for the benefit of the students and faculty members of the department.
- To improve the research ambience to generate more application oriented projects and to get funding from the various national funding agencies of India for innovative projects.
- To establish a Nanobiotechnology laboratory for exclusive research in Nanomedicine
- To become a Centre of Excellence in Nanotechnology by establishing new facilities and developing the existing facilities and infrastructure available at the department.
- To develop and extent more research collaborations with other Nanotechnology research labs both at National and International levels.

Department Evaluative Report

Department of Management Studies



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Management Studies
Evaluative Report

1. **Name of the Department** **:** Management Studies

2. **Year of establishment** **:** 1993

3. **Is the Department part of a School/Faculty of the university :**
   Yes, Faculty of Management Studies

4. **Name of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

UG courses	: B.B.A.,
PG Courses	:M.B.A.,
M.Phil	:Business Administration
Ph.D	: Business Administration

5. **Interdisciplinary programmes and departments involved :**

Subject Code and Subject Name	Year	Department offering the course
MS 201Environmental Science	2009 -13	S5 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 202 Professional Ethics	2009 -13	S6 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 203 Principles of Management	2009 -13	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1201Environmental Science	2013 onwards	S4 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1202 Professional Ethics	2013 onwards	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1203 Principles of Management	2013 onwards	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1518 Accounting and Financial	2009 onwards	S2 MCA

Management		
Management Science and Economics	2009 onwards	S5 Marine

BBA

S.No	Subject Code and Subject Name	Department offering the course	Semester
1	MA1601 Business Mathematics	Mathematics	I
2	MS16E1 English	English	I
3	MS 1609 E Business	MCA	III

M.B.A

S.No	Subject Code and Subject Name	Department offering the course	Semester
1	MA1506 Quantitative Techniques	Mathematics	I
2	MS 15H1 Shipping and Port Management	Marine Engineering	III
3	MS 15H3 Logisitics Management	Marine Engineering	III
4	MS 15H5 Legal Aspects of shipping	Marine Engineering	III
5	MS 15F1 International Aviation	Aircraft maintenance Engineering	III
6	MS 15F2 Aviation Regulations	Aircraft maintenance Engineering	III
7	MS 15F3 Air operations	Aircraft maintenance Engineering	III

M.Phil

S.No	Subject Code and Subject Name	Department offering the course	Semester
1	GE 401 Teaching Methodology	Msc. Software	I

6. Courses in collaboration with other universities, industries, foreign institutions, etc :

MoU with the following universities

Sl.No.	Name of the University	Date of Signing the MOU
1	Liverpool John Moores University,United Kingdom	March 11, 2011
2	Providence University, Taiwan	March 24, 2011
3	University Teknologi Mara, Malaysia	December 8, 2011
4	UniversiUniversity of Medicine and Dentistry of New Jersey, U.S.A	January 28, 2012
5	Doctors Academy, U.K	January 28, 2012
6	Indo-European Centre, Vistula University, Warsaw, Poland	January 28, 2012

7. Details of programmes discontinued, if any, with reasons :

Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :

Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments :

Subject Code and Subject Name	Year	Department offering the course
MS 201Environmental Science	2009 -13	S5 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 202 Professional Ethics	2009 -13	S6 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 203 Principles of Management	2009 -13	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE,

		Mechanical, Civil, Bio Medical, Aerospace)
MS 1201Environmental Science	2013 onwards	S4 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1202 Professional Ethics	2013 onwards	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1203 Principles of Management	2013 onwards	S7 B. E. (ECE, IT, EEE, EIE, Aeronautical, Automobile, CSE, Mechanical, Civil, Bio Medical, Aerospace)
MS 1518 Accounting and Financial Management	2009 onwards	S2 MCA
Management Science and Economics	2009 onwards	S5 Marine

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	4	4	4
Associate Professors	2	2	2
Asst. Professors	8	8	9
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.K.A. Janardhanan	MBA, Ph.D (Mg) M.Phil., Ph.D(P.A	Professo, Dean, Director - HRM & Manager	HRM, Disaster Management	26	Ph.D. – 8 M. Phil - 8

	)				
Dr. B. Chandra Chodan Nair	B.SC, MBA., Ph.D	Professor, Director	Operations	42	Ph.D. – 8 M. Phil -16
Prof. M. Sivathanu Pillai	M.Com	Professor	HRM	50	-
Dr. M. Wilson	M.Com ,., MBA M.Phil ., Ph.D	Professor	Marketing	26	Ph.D. – 5 M. Phil - 9
Dr. D.Kinslin	M.Com ,., MBA M.Phil ., Ph.D	Associate .Prof, HOD, Deputy Dir-HRM	Marketing, HRM	15	Ph.D. – 10 M. Phil - 12
Dr. R.V. Sivabalan	MCA, Ph.D	Associate Professor	Systems	14	Ph.D. – 3
Dr. S.Edmund Christopher	M.Com., MBA M.Phil., Ph.D	Assistant Professor	Marketing	13	Ph.D. – 6 M. Phil –12
Dr. A. Merlin Thanga Joy	MBA M.Phil., Ph.D	Assistant Professor	Finance, Marketing	13	Ph.D. – 3 M. Phil - 12
Dr. Ferdinand Christopher	MCA, M.E, Ph.D	Assistant Professor	Systems	13	-
Dr. R Radhika	MA., MBA M.Phil., Ph.D	Assistant Professor	HRM	08	Ph.D. – 6 M. Phil - 8
Mr. V.P. Velmurugan	M.Com ., MBA., BL	Assistant Professor	Finance	7.10	-
Dr. Sulaipher. M	B.SC , MBA, Ph.D	Assistant Professor	Marketing	8	-
Mr. Merlin Maria Jerom. M (On leave)	BE., MBA	Assistant Professor	Marketing	7	-
Mr. N. Pradeesh Kumar	B.Com., MBA	Assistant Professor	Marketing	6	-
Mr. Shibin Tad M.C	MBA, MPhil	Assistant Professor	HRM	6 months	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

S. No.	Name of Senior Visiting Faculties	Details
1.	Dr. Santhosh P Thambi Associate Professor, MG University, Kottayam	Visiting Faculty
2.	Dr. Samuthra Rajkumar, Professor, Annamalai University, Chithambaram	Visiting Faculty
3.	Dr. M. Sivaraman, Distinguished Professor & Former Dean, Kerala University, CMD, Trivandrum.	Visiting Faculty
4.	Rear Admiral B. R. Menon, Former Chairman, Kerala State Inland Navigation Corporation, Cochin	Visiting Faculty
5.	Mr. Subbuuraj, Managing Director, Sura Books, Chennai	Visiting Faculty
6.	Dr. R. Ravanan , Associate Professor & Head Presidency college, Chennai	Visiting Faculty
7.	Mr. Nelson Vinotha Kumar Xavier, Executive Engineer, Thermal Power Station, Tuticorin	Visiting Faculty
8.	Mr. Y. Shaji, Project Lead, Alliance Industries Ltd., Technopark, Trivandrum	Visiting Faculty
9.	Dr. Rajashekar, Head of the Department, Manonmaniam Sundaranar University, Tirunelveli.	Visiting Faculty
10.	Dr. Subramania Ramakrishnan, General manager, IBM, Chennai.	Visiting Faculty
11.	Captain Bennett Singh, Business consultant, Tuticorin Port Trust, Tuticorin	Visiting Faculty

13. Percentage of classes taken by temporary faculty – programme-wise information :

2014-15

S. No.	Name of the research scholar	Class	Title of the paper with code
1	Nithya Daimy K M	S1 MBA	Consumer Behaviour (MS1582)

2013 – 2014

S. No.	Name of the research scholar	Class	Title of the paper with code
1	Shibin Tad M C	S1 BBA	Business Communication (MS1611)

2012-2013

S. No.	Name of the research scholar	Class	Title of the paper with code
1	Sujin T	S3 MBA	Management of Financial Service and Institution (MS6B4)

2010-2011

S. No.	Name of the research scholar	Class	Title of the paper with code
1	Monita Sutherson	S5 Mechanical Dept.	Principles of Management (Mechanical Dept.)

2009-2010

S. No.	Name of the research scholar	Class	Title of the paper with code
1	Pradeesh Kumar	S1 MBA	Accounting for Managers (MS604)

14. Programme-wise Student Teacher Ratio :

BBA - 15:1
MBA - 12 :1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

	Academic support staff	Administrative staff
Sanctioned	1	1
Filled	1	1
Actual	1	1

16. Research thrust areas as recognized by major funding agencies :

Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Name of the Funding Agency	Project Title	Grants Received
UGC	Community based disaster management- A study with special reference to Tamilnadu	Proposal submitted & waiting for approval
NABARD	A Study about the Status of Matured Shgs In Tamil Nadu	Proposal submitted & waiting for approval
Ministry of Environment & Forest - India,	A Proposal, "An Information System Using Fuzzy Metrics To Manage / Remediate Hazardous Elements In Water / Air - A Pilot Study"	Proposal submitted & waiting for approval
Department of Science & Technology – India	A proposal, "Seamless Mobility in 4G Mobile Communication through Wireless Sensor for Disaster Management" is submitted to, on 14-10-14.	Proposal submitted & waiting for approval

18. Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration

Sl.No.	Name of the Organization	Name of the Programme
1	CET Trivandrum	Students Exchange Programme
2	Institute of co-operative management, Neyyar	Students Exchange Programme

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Name of the Funding Agency	Project Title	Grants Received
UGC	Community based disaster management- A study with special reference to coastal areas of Tamilnadu	Proposal submitted
NABARD	A Study about the Status of matured Self Help Groups in Tamil Nadu	Proposal submitted

20. Research facility / centre with :

- state recognition - Yes
- national recognition - Yes
- international recognition- Yes

- MoU with the following universities

Sl.No.	Name of the University	Date of Signing the MOU
1	Liverpool John Moores University,United Kingdom	March 11, 2011
2	Providence University, Taiwan	March 24, 2011
3	University Teknologi Mara, Malaysia	December 8, 2011
4	University of Medicine and Dentistry of New Jersey, U.S.A	January 28, 2012

5	Doctors Academy, U.K	January 28, 2012
6	Indo-European Centre, Vistula University, Warsaw, Poland	January 28, 2012

21. Special research laboratories sponsored by / created by industry or corporate bodies :

SPSS lab

22. Publications:

* Number of papers published in peer reviewed journals (national / international)

2015

Name of the Author	Title of the paper	Name of the Journal	Volume No. Page & year of Publication	Whether included in SCOPUS	Impact Factor
Dr. K. A. Janardhanan	Factors Influences Employee Retention in IT	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.31946-	Yes	
Dr. K. A. Janardhanan	An Exploratory Study on Working Condition of	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.31962-	Yes	
Dr. K. A. Janardhanan	Causes and Consequences of Child Labours in	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.31975-	Yes	
Dr. K. A. Janardhanan	Employee Retention Practices for Leaders – A	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.31979-	Yes	
Dr. K. A. Janardhanan	Employee Training and Development Practices in Air	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.32005-	Yes	
Dr. K. A. Janardhanan	A Study on the Consumer Perception Towards the	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.32914-	Yes	

Dr. K. A. Janardhanan	An Analytical Study on Service Quality of Air India	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.32021-	Yes	
Dr. K. A. Janardhanan	An Action plan for Perishable Food Industry by using	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.32021-	Yes	
Dr. B. Chandrachoodan Nair	Organizational Culture of State Level Public Enterprises	*Management Researcher* (ISSN	Vol. XXI, No 4, April-June 2015.		
Dr. D.Kinslin	Organizational Climate at Tuticorin	International Journal of Applied Engineering	Vol. 10 No.45 (2015)		
Dr. D.Kinslin	An Action Plan for Perishable Food Industry	International Journal of Applied Engineering	Vol. 10 No.45 (2015)		
Dr. D.Kinslin	An Exploratory Study on Working	International Journal of Applied Engineering	Vol. 10 No.45 (2015)		Impact factor
Dr. D.Kinslin	Causes and Consequences of Child	International Journal of Applied Engineering	Vol. 10 No.45 (2015)	Yes	
Dr. D.Kinslin	Employee Retention Practices for	International Journal of Applied Engineering	Vol. 10 No.45 (2015)		
Dr. R. Radhika	Impact of fishing harbor on the living conditions of fishermen in	International journal of Management.	Vol.6 Issue 3 page 96 (2015)		Impact factor
V.P.Velmurugan	Behavioral Finance.	ICBDM-2015	27th and 28th Feb 2015.	No	
Shibin Tad M.C	A Study on the Consumer Perception Towards the	International Journal of Applied Engineering	Volume 10, Number 45 (2015) pp.32914-	Yes	

2014

Dr. K. A. Janardhanan	"Behaviour of Recycled aggressive in Exterior Beam	Internationa l Journal of Earth sciences &	Vol. 07, no 05: ISSN 0794-5904, Scopus	Yes	H index 2(2012)
Dr. K. A. Janardhanan	"Wind & seismic calculation: Requirement of	IEEE Xplore,	ISBN:978-1-4799-4191-9, PP.1418-1431.	Yes	
Dr. K. A. Janardhanan	"Selection of Industrial robotic systems using Fuzzy	IEEE Xplore,	ISBN:978-1-4799-4191-9, PP.208-216. 2014	Yes	
Dr. K. A. Janardhanan	"Disaster Preparedness and Planning"	NISMA Journal,	2014, ISSN: 0973-3957, PP. 01-03.		
Dr. K. A. Janardhanan	"Disaster Management in India - A Holistic	NISMA Journal,	2014, ISSN: 0973-3957, PP. 04-07.		
Dr. K. A. Janardhanan	"Community Based Disaster Management:	NISMA Journal,	2014, ISSN: 0973-3957, PP. 08-10.		
Dr. K. A. Janardhanan	"Disaster management and the role of HRM towards	NISMA Journal,	2014, ISSN: 0973-3957.		
Dr. K. A. Janardhanan	"Testing market efficiency of Bombay stock exchange in	NISMA Journal,	2014, ISSN: 0973-3957, PP. 82-86.		
Dr. K. A. Janardhanan	"Problems, prospects and challenges of female	NISMA Journal,	2014, ISSN: 0973-3957, PP. 96-99.		
Dr. K. A. Janardhanan	"a state of the art of self-help groups in India"	NISMA Journal,	2014, ISSN: 0973-3957, PP. 100-102.		
Dr. K. A. Janardhanan	"Quality of Work Life among Male and Female	NISMA Journal,	2014, ISSN: 0973-3957, PP. 185-191.		
Dr. K. A. Janardhanan	"Perception of patients and their attendants on service	NISMA Journal,	2014, ISSN: 0973-3957, PP. 319 -321.		

Dr. K. A. Janardhanan	"The role of Information System in Disaster	International Journal of Managemen	Volume 3, No 1, ISSN: 2319-4421. (2014).		Impact Factor (2013) - 3.212
Dr. B. Chandrachoodan Nair	The Myths and Realities of Depreciation Versus	*Management Researcher* (ISSN	April-June 2014		
Dr. D.Kinslin	"Impact of modern Retail over Food Supply Chain	Global Journal for Research Analysis	Volume: 3 | Issue: 1 | Jan 2014		
Dr. D.Kinslin	HACCP: An Action Plan for Perishable Food Produce"	ICBDM 2014	2014		
Dr. D.Kinslin	"Food Supply Chain Players: With Direct and Traditional	IEEE journal	CFPT131PT-ART, ISBN: 978-1-4673-4922-2		
Dr. D.Kinslin	Relationship between leadership aspects and	Global Journal for Research	VOLUME NO. 3 (2014), ISSUE NO. 11		
Dr. D.Kinslin	"Causes of attrition and their effects in Information	International Journal of Research in Com	VOLUME NO. 4 (2014) , ISSUE NO.		
Dr. D.Kinslin	Leadership and motivation – an expectation from	International Journal of Scientific Research	VOLUME NO. 3 (2014), ISSUE NO. 6 (June)		
Dr. D.Kinslin	Employee retention benefits and effective	The Journal of High Technology Managemen		SNIP 0.790, Imprint : ELSEVIE	
Dr. A. Merlin Thanga Joy	Security Issues in Online Banking Services	Indian Journal of Applied Research	Volume 4, Issue: 3, March 2014, ISSN No.		
Dr. A. Merlin Thanga Joy	Issues and Challenges in services marketing faced	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		
Dr. A. Merlin Thanga Joy	Emerging Challenges and strategies in Indian Medical	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		

Dr. A. Merlin Thanga Joy	Stress Management Strategies adopted by	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		
Dr. A. Merlin Thanga Joy	Role and impact of Performance management in work force	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		
Dr. A. Merlin Thanga Joy	Customers Perception on Technology enabled	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		
Dr. A. Merlin Thanga Joy	Problems faced by customers in getting bank loans in India	Noorul Islam Strategic Managemen	Special Edition, February, 2014, ISSN		
Dr. R. Radhika	Human Resources in healthcare services.	NISMA	Vol.1 page. 19 Feb.2014		
Dr. R. Radhika	An overview of training and development program and	NISMA	Vol.1 page. 19 Feb.2014		
Dr. R. Radhika	Emerging trends in talent management.	NISMA	Vol.1 page. 40 Feb.2014		
Dr. R. Radhika	Leadership competencies in IT industries.	NISMA	Vol.1 page. 54 Feb.2014		
Dr. R. Radhika	Foreign direct investment In retail-a blessing to India.	NISMA	Vol.1 page. 57 Feb.2014		
Dr. R. Radhika	Retail challenges in non- banking financial companies.	NISMA	Vol.1 page. 87 Feb.2014		
Dr. R. Radhika	Challenges and strategies of retail marketing.	NISMA	Vol.1 page. 107 Feb.2014		
Dr. R. Radhika	The socio-economic conditions of women workers	NISMA	Vol.1 page. 192 Feb.2014		

V.P.Velmuruga n	Testing market efficiency of Bombay stock exchange in	ICBDM-2014	28th Feb and 1st March 2014.	No	
N. Pradeesh Kumar	"Social Marketing - The Role played by	Managemen t Innovator, Researchers Forum,	PP: 2014	NA	NA
N. Pradeesh Kumar	"Business continuity Plan for	Special Issue NISMA,	Special Edition 2014	NA	NA
Shibin Tad M.C	"Disaster Preparedness and Planning"	NISMA Journal,	2014, ISSN: 0973-3957, PP. 01-03.		
Shibin Tad M.C	"Disaster Management in India - A Holistic	NISMA Journal,	2014, ISSN: 0973-3957, PP. 04-07.		
Shibin Tad M.C	"Community Based Disaster Management:	NISMA Journal,	2014, ISSN: 0973-3957, PP. 08-10.		
Shibin Tad M.C	"The role of Information System in Disaster	Internationa l Journal of Managemen	Volume 3, No 1, ISSN: 2319-4421. (2014).		Impact Factor (2013) - 3.212

2013

Dr. B. Chandrachooda n Nair	Health Care Management In India- A Review	Internationa l Journal Of Applied Managemen	Vol. 5 , January 2013		
Dr. B. Chandrachooda n Nair	Gold Buying Occasions and Consumer Behaviour with	*NISMA* (ISSN 0973-3957)	2013		
Dr. K. A. Janardhanan	"Anatomy of human behavior at work",	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"A Study of online consumers and their buying	NISMA Journal,	ISSN : 0973-3957. 2013.		

Dr. K. A. Janardhanan	"Emergency Management System to Compact	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"A Study on Incentives and its impact on employee	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"Performance Evaluation of selected banking	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"Stress Management amoung Engineering	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"Work place Environment and its impact of Employees	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. K. A. Janardhanan	"Impact of Long term financing through Primary	NISMA Journal,	ISSN : 0973-3957. 2013.		
Dr. D.Kinslin	Opportunities for Quality Improvement in Food Supply	Indian Journal of Applied Research	Vol. 3/ Issue:3, pp 76-77. March 2013		
Dr. D.Kinslin	An Analysis Of Factors Affecting Post-Harvesting	Internationa l Journal of Research in Commerce,	VOLUME NO. 3 (2013), ISSUE NO. 12		
Dr. D.Kinslin	Small and marginal farms to cooperative value added	IEEE journal	CFPT131PT-ART, ISBN: 978-1-4673-4922		
Dr. D.Kinslin	"Food Supply Chain Players: With Direct and Traditional	IEEE journal	CFPT131PT-ART, ISBN: 978-1-4673-4922-2		
Dr. R.V. Sivabalan	Rationale management approach in stress	Am. J. Applied Sci.,	PP. 89-96		Impact factor: 1.5
Dr. R.V. Sivabalan	A review on data mining in banking sector	Am. J. Applied Sci.,			Impact factor: 1.5

Dr. R.V. Sivabalan	Data Mining in Banking and Its Applications-A Review	Journal of Computer Science			Impact factor: 1.4
Dr. A. Merlin Thanga Joy	Issues and Challenges Faced by ATM Customers of	Paripex – Internationa l Index Journal	Volume : 2, Issue : 7, July 2013, ISSN – 2250-1991,		
Dr. A. Merlin Thanga Joy	Impact of Global Crisis on Food commodities in	Adarsh Journal of Managemen t Research	Vol.6, Issue 1, March 2013, ISSN 0974 – 7028,		
Dr. A. Merlin Thanga Joy	Contemporary Issues and Challenges of Mobile Banking	Noorul Islam Strategic Managemen	Special Edition, March 2013, ISSN No.		
Dr. A. Merlin Thanga Joy	Emerging Opportunities and Challenges for Cottage	Internationa l Journal of Scientific and	Volume III, Issue 3, March 2013 ISSN 2250-		
Dr. R. Radhika	Patient Perception on quality Health Care	Internationa l managemen t	Vol.1 No.3 Page. 178 Sep.2013		
Dr. R. Radhika	Impact of Education loan in India	Internationa l managemen t	Vol.1 No.3 Page.182 Sep.2013		
Dr. M. Sulaipher	Challenges and Strategies in rural marketing	NISMA	Special edition2013, p. 19-24 2013, p. 19-	No	Nil
Dr. M. Sulaipher	Challenges and Strategies in rural marketing	NISMA	2013		
V.P.Velmurugan	Performance Evaluation of Selected Banking and	. ICBDM-2013	March 2013.	No	
N. Pradeesh Kumar	Conceptual Outlook On: Marketing Strategies for	Special Issue of NISMA,	Special Edition PP: 173-183 2013	NA	NA
Shibin Tad M.C	"Shipping Trade in India: A Wakeup call to Policy	NISMA Journal,	ICBDM 2013, ISSN: 0973-3957, PP.		

Shibin Tad M.C	"Indian ports seeks betterment for international	Internationa l Journal of Managemen	Volume 2, No 11, ISSN: 2319-4421, PP. 44 -		Impact Factor (2013) - 3.212

2012

Dr. K. A. Janardhanan	"Changing Perception in Disaster Management",	NISMA Journal,	ISBN : 978-81-908408-4-5. 2012		
Dr. K. A. Janardhanan	"Impact of Nano and Information Technology on	NISMA Journal,	2012, ISBN : 978-81-908408-4-5.		
Dr. K. A. Janardhanan	"An outlook on Global financial crisis and its impact	NISMA Journal,	2012, ISBN : 978-81-908408-4-5.		
Dr. K. A. Janardhanan	"A Study on Human rights of unorganized	NISMA Journal,	2012, ISBN : 978-81-908408-4-5.		
Dr. K. A. Janardhanan	"Effective HRM Practices for Business Performance",	NISMA Journal,	2012, ISBN : 978-81-908408-4-5.		
Dr. A. Merlin Thanga Joy	Issues and challenges of BSNL landline services to	i-manager's Journal on Managemen t	Volume 7, No. 2, September – November		
Dr. A. Merlin Thanga Joy	A Study on Operational Constraints involved in	Internationa l Journal of Research in Computer	Volume No. 2 (2012), Issue No.11 (November)		
Dr. R.V. Sivabalan	Moderated Proportion to Alleviate Perceived Stress	American-Eurasian Journal of Scientific			Impact factor: 1.0
Dr. R.V. Sivabalan	An Extensive Review of Significant Researches in	Research Journal of Applied Sciences,			Impact factor: 1.0
Dr. M. Sulaipher	Disaster Management in India	NISMA	27th and 28th Jan 2012 Jan 2012		

Dr. M. Sulaipher	Importance of strategies in rural Marketing	Rural Marketing in India	PSR College Bangalore 18 and 19, May 2012		
V.P.Velmuruga n	Global Financial Crisis and its Impact in Indian	ICCDM-2012	Jan 2012	No	
N. Pradeesh Kumar	"Banking in India - Branding	International Journal of Engineering and	Vol.3 [3], PP: 319-325 2012	Cited in Index Copernicus	NA

2011

Dr. A. Merlin Thanga Joy	A Study on the competitive performance of the freight	Proficient	Vol. III, Issue X. October 2011, Pg. No. 79 to 91.		
Dr. A. Merlin Thanga Joy	A Study on Customer's perception towards Eureka	NISMA	Jan – June 2011, Vol V, No. 1, Pg. No. 68 to 77,		
Dr. R. Radhika	Handicraft Industries in Kanyakumari District	Kisan World	Vol-38 No.6 Page-20 May-2011		
Dr. R. Radhika	An Economic study on coconut cultivation	NISMA	Vol-5 No.2 Page-43 July- Dec 2011		
Dr. R. Radhika	Competency mapping a route map for recruitment in	NISMA	Vol-5 No.2 Page-366 July- Dec 2011		
Dr. R. Radhika	Changing Perception towards the educational loan	NISMA	Vol-5 No.2 Page-346 July- Dec 2011		

*

* Monographs :Nil
* Chapters in Books :Nil
* Edited Books :Nil
* Books with ISBN with details of publishers

* Books with ISBN with details of publishers

Name of the Author	Title of the Book	Name of the Publisher	Year of Publication
Dr. K. A. Janardhanan	Introduction to Research Methods	NIU Publications	2014
Dr. K. A. Janardhanan	Coastal Housing & Resettlement under Tsunami Rehabilitation Programme	Government of Kerala	2015
Dr. M. Wilson	Principles of Management	Peacock Publishers, Nagercoil	1990
Dr. M. Wilson	Business Statistics	Himalaya Publishing House, Bangalore	2000
Dr. M. Wilson	Business mathematics	Himalaya Publishing house, Bangalore	2006
Dr. M. Wilson	Cost Accounting	Himalaya Publishing house, Bangalore	2007
Dr. M. Wilson	Management Accounting	Himalaya Publishing house, Bangalore	2008
Dr. M. Wilson	Advanced Accountancy Volume I	Scitech Publications India PVT Ltd	2009
Dr. M. Wilson	Accounting for Management	Scitech Publications India PVT Ltd	2010
Dr. M. Wilson	Advanced Accountancy Volume II	Scitech Publications India PVT Ltd	2011

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) :
- Citation Index – range / average :Nil
- SNIP :Nil
- SJR :Nil
- Impact Factor – range / average : 1.2
- h-index :

23. Details of patents and income generated :

Nil

24. Areas of consultancy and income generated :

S. No.	Name of the Organisation	Type of Consultancy
1.	NIMS	HR Performance Appraisal
2.	NIMS	Recruitment
3.	Kaani Tribals, Thachamalai	Marketing of Agro forest products

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Yes, Dr. S. Edmund Christopher, Dubai

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

Sl.No.	Name of the Faculty	Designation	Institution
1.	Dr. K. A. Janardhanan	Advisory committee and Board of Governors	Vijay Institute of Management, Dindigul
2.	Dr. K. A. Janardhanan	Associate Editor – An Evolutionary approach in Management Research	A Journal published by BONIFIRM
3.	Dr. K. A. Janardhanan	Member, Board of Management	Noorul Islam University
4.	Dr. B. Chandra Choodan Nair	Board of Studies, Member	Anna University
5.	Dr. B. Chandra Choodan Nair	Journal Management Researcher, Editorial Board Member	IMDR, Trivandrum
6.	Dr. B. Chandra Choodan Nair	Board of Studies, Member	Noorul Islam University
7.	Dr. B. Chandra Choodan Nair	Academic council Member	Noorul Islam University
8.	Dr. D. Kinslin	Academic council Member	Noorul Islam University
9.	Prof. SivathanuPillai	Member	Indian Society for Training and Development
10.	Prof. SivathanuPillai	Member	British Institute of Management

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Name	Title of the Programme	Place of the Programme	Month & Year
Dr. K. A. Janardhanan	Aspire-Workshop on career guidance and personality development	Noorul Islam University	26th February 2015
Dr. A. Merlin Thanga Joy	Aspire-Workshop on career guidance and personality development	Noorul Islam University	26th February 2015
V.P. Velmurugan	Aspire-Workshop on career guidance and personality development	Noorul Islam University	26th February 2015
Dr. R. Radhika	Aspire-Workshop on career guidance and personality development	Noorul Islam University	26th February 2015
N. Pradeesh Kumar	Securities Markets and Common Man	Organised by SEBI and NSDL at Mascotr Hotel, Trivandrum	19th Jan 2013
Dr. K. A. Janardhanan	Aspire-Workshop on career guidance and personality development	Noorul Islam University, Kumaracoil	9th Mar 2012
Dr. A. Merlin Thanga Joy	Aspire-Workshop on career guidance and personality development	Noorul Islam University, Kumaracoil	9th Mar 2012
N. Pradeesh Kumar	Entrepreneurship Awareness Camp 2012	Ministry of Science and Technology, NSTEDB, Govt. of India, New Delhi	29th -31st Mar 2012
Dr. A. Merlin Thanga Joy	Entrepreneruship Awareness Camp	Noorul Islam University, Kumaracoil	29-31 Mar 2012
V.P. Velmurugan	Aspire-Workshop on career guidance and personality development	Noorul Islam University, Kumaracoil	9th March 2012
Dr. A. Merlin Thanga Joy	Three Day National Level Workshop on “Research Techniques in Management”	Pondicherry University, Puducherry	Aug3-5,2012
Dr. A. Merlin Thanga Joy	Two day National Workshop on Applications of Statistical Methods	Noorul Islam University, Kumaracoil	Oct 11-12,2012
Dr. K. A. Janardhanan	ISTE workshop for teachers on AAKASH for Education	Noorul Islam University, Kumaracoil	10th& 11th Nov 2012
V.P. Velmurugan	ISTE workshop for teachers on AAKASH for Education	Noorul Islam University, Kumaracoil	10th& 11th Nov 2012
N. Pradeesh Kumar	ISTE workshop for teachers on AAKASH for Education	Noorul Islam University, Kumaracoil	10th& 11th Nov 2012

Dr. A. Merlin Thanga Joy	Selection of Statistical Tools for Management Research	Sun College of Engineering & Technology, Erachakulam	April 2011
V.P. Velmurugan	Two day workshop on gateway to research	Noorul Islam University, Kumaracoil	Sep 24, 2011
S. Edmund Christopher	One day workshop on "Post Recession Impact And Its Implications, With Special References To Securities Market"	Narayanaguru College of Engineering, Manjalumoodu,	23rd September 2011

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects :**
  10%
- **percentage of students doing projects in collaboration with other universities / industry / institute :**
  90%

29. Awards / recognitions received at the national and international level by Faculty :

- Doctoral / post doctoral fellows - nil

STUDENTS ACHIEVEMENTS

SI. No	Name of the Student	Name of the College Participated	Date of the Event	Name of the Event	Prize Won
1.	Ranjith.S	Maria College - Attoor	15.03.2013	Best Personality	1st
2.	Goldyn Abric Sam	Maria College - Attoor	15.03.2013	Quiz	Participated
3.	Anoop Devan	Maria College - Attoor	15.03.2013	Quiz	Participated
4.	Abdul Azeem	Sri Krishna College - Coimbatore	15.03.2013	Best Manager	Participated
5.	Thousee Ahammed Kabeer	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Lorem-Ipsum	Participated

6.	Abin Mohan	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Lorem-Ipsum	Participated
7.	Jomish John	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	B. Interrogations Rapid	1st
8.	Anoop Devan	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	B. Interrogations Rapid	1st
9.	Abdul Azeem	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Best Procurator	Participated
10.	Ranjith.S	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Best Procurator	Participated
11.	Roji Lzpe Zacharia	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Lorem-Ipsum	Participated

12.	Christopher Terrance	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Lorem-Ipsum	Participated
13.	Abhilash. P. S	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Mezzo Relievo	2nd
14.	Abdul Azeem	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Mezzo Relievo	2nd
15.	Goldyn Abric Sam	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Mezzo Relievo	2nd
16.	Akhil. P. S	G. Karunakaran Memorial Co-Operative College of Management and Technology	9th & 10th May 2013	Mezzo Relievo	2nd

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

S.No	Title of the Programme	Date	Resource Person	Title
1	Esperanza 2015	15.09.2015	Dr. Shylendra Babu IPS	National Level Management

			Asst. DGP of Police, Chennai	
2	Aspire-2015	26.02.2015	James R Daniel, Former Principal, Scott Christian College, Nagercoil Subramaniam Rama Krishnan, IBM General Manager, Chennai Division	Workshop on career guidance and personality development
3	ICBDM -2015	27.02.2015 & 28.02.2015	Dr. kunjaria P Issac, Vice Chancellor, kerala Technological University, Trivandrum	Emerging Trends in Science , Engineering, Business and Disaster Management
4	Harbinger 2014’	1.10.2014	Dr. Jebamalai vinanji Arachi, Senior Economist and the principal Advisor to the Director, UNIDO	National level Management meet
5	ICBDM -2014	28.02.2014	Dr. B. Battacharjee, Member, NDMA, New Delhi	Engineering, Business and Disaster Management
6	AMBIZIONE 2k13	04.10.2013	Dr. Jayamani, vice Chairman, Institute of Management Development and Research, Trivandrum	National level Management meet
7	ICBDM -2013	08.03.2013 & 09.03.2013	Dr. E. Balagurusamy, Former Member,UPSC New Delhi FormerVice chancellor ,Anna	Engineering, Business and Disaster Management

			University, Chennai Dr. G. Madhavan Nair, former Chairman, ISRO & Former Secretary Space Commission	
7	Aspire-2012	09/03/2012	Dr. M. Ayyapan, Director, Hindustan Latex Ltd. Trivandrum	Workshop on career guidance and personality development
8	ICCDM 2012	27.01.2012	Dr. Muhammed Z. Mamun, Professor, Institute of Business Administration, University of Daka, Bangladesh Dr. Srikumar Banerjee , Chairman, Atomic Energy Commission, Secretary Dept of Atomic Energy Govt. of India	International Conference on Comprehensive Disaster Management
9	Opulent 2012’	19.10.2012	Director, IMK	National level Management meet
10	CONFLATE 2011	21.10.2011	Shri. G. C. Gopala Pilai, Chairman & MD, CMD Trivandrum	National Level Management
11	Emercz 2010	18.10.2010	K. S. Ilangovan, SBI Divisional Manager	National Level Management
12	Emercz 2009	10.10.2009	Shri. Rajeesh, Executive Director, Thermo Penpol, Trivandrum	National Level Management

31. Code of ethics for research followed by the departments :

The Code sets forth the ethical principles and standards that govern the professional work of education researchers. The Code of Ethics replaces the Ethical Standards, which were adopted in 1999 and have been only minimally modified since that time. The current Code is intended to provide guidance that informs and is helpful to education researchers in their research, teaching, service, and related professional work.

32. Student profile programme-wise:

Name of the programme	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
Ph.D.	2014-2015	45	2	2	-	-
	2013-2014	34	8	5		
	2012-2013	32	8	3		
	2011-2012	32	9	3		
	2010-2011	34	2	3		
	2009-2010	36	5	-		
M.Phil	2014-2015	55	9	14	77	100
	2013-2014	52	6	26	100	96.15
	2012-2013	53	8	25	87.5	96
MBA	2014-2015	90	48	11	100	100
	2013-2014	134	72	14	90	100
	2012-2013	121	38	12	92.10	100
	2011-2012	84	23	11	95.65	100
	2010-2011	123	48	18	95.83	94.44
	2009-2010	112	35	23	100	100
BBA	2014-2015	16	8	-		Yet to complete

33. Diversity of students :

2014 -2015

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
BBA		62%	38%	
MBA	3%	17%	80%	
M.phil	-	83 %	17%	-
Ph.D	50%	-	50%	-

2013 -2014

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
BBA	-	-	-	-
MBA	-	7.89%	92.10%	-
M.phil	_	90.90%	9.09%	-
Ph.D	7.70%	23.07%	69.23%	-

2012 -2013

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
BBA	-	-	-	-
MBA	-	18.18%	81.81%	-
M.phil	-	93.75%	6.25%	-
Ph.D	10%	60%	30%	-

2011 -2012

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BBA	-	-	-	-
MBA	-	37.25%	62.74%	-
M.phil	-	-	-	-
Ph.D	-	41.67%	58.33%	-

2010 -2011

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BBA	-	-	-	-
MBA	-	42.85%	57.14%	-
M.phil	-	-	-	-
Ph.D	20%	60%	20%	-

2009 -2010

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BBA	-	-	-	-
MBA	-	31.85%	68.18%	-
M.phil	-	-	-	-
Ph.D	-	60%	40%	-

34. How many students have cleared Civil Services and Defence Services

examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : Nil

35. Student progression :

2014-2015

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	**50%**
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	 40% 25%
Entrepreneurs	25%

2013-2014

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	**3.12%**
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	 35% 30%
Entrepreneurs	25%

2012-2013

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	**3.03%**
PG to Ph.D.	**10%**
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	 60% 25%
Entrepreneurs	15%

2011-2012

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	 25% 30%
Entrepreneurs	30%

2010-2011

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	**20%**
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	 20% 35%
Entrepreneurs	30%

2009 – 2010

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	-

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	90%
from universities from other States	10%
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

Name of the Faculty	Degree	Year of Award	University
Dr. M. Sulaipher	Ph.D	2014	Manonmaniam Sundaranar university
Dr. K.A. Janardhanan	Ph.D.	2013	Manonmaniam Sundaranar university
Dr. A. Merlin Thanga Joy	Ph.D.	2010	Manonmaniam Sundaranar university

38. Present details of departmental infrastructural facilities with regard to :

a) Library : Apart from the University Central library, the School of Management has its own library blessed with a collection of 7520 Text books to enrich the students, 5961 of Titles, 16 International and 18 National Journals.

b) Internet facilities for staff and students

Wi- Fi connection is available in the department for faculty and staff access. Internet is made available in all the computers in the department and can be used by faculty and students anytime.

c) Total number of class rooms : 7

d) Class rooms with ICT facility

All class rooms are ICT enabled. All classrooms are provided with projectors and one classroom has a smart board installed.

e) Students' laboratories

Students' laboratories are available in our University.

f) Research laboratories

Research laboratories are available in our University.

39. List of doctoral, post-doctoral students and Research Associates :

a) from the host institution/university

Sl.No	Name of the scholar	Full time/ Part time	Year
1.	Asha K.	FT	2014
2.	NithyaDaimy K M	FT	2014
3.	Shibin Tad	FT	2013

4.	JasbinBino P	FT	2012

b) from other institutions/universities

Sl.No	Name of the scholar	Full time/ Part time	Year
1.	Jayakumar D	PT – E	2014
2.	Vijay Ananth C	PT – E	2014
3.	Jerry Joe Manoj A	PT – I	2013
4.	Neethi S. Gopinath	FT	2013
5.	Abernesh Justin	PT – E	2013
6.	Cris Abraham Kochukalam	PT – E	2013
7.	Dhanya J S	PT – E	2013
8.	Linimol .L. T	PT – E	2013
9.	Manoj Kumar N	PT – E	2013
10.	Pradeep K. M	PT – E	2013
11.	Prasida.S	PT – E	2013
12.	Ram Krishnan.S	PT – E	2013
13.	Sivasakthidevi P	PT – E	2013
14.	Srinivasan L	PT – E	2013
15.	Vijayaraghavan T	PT – E	2013
16.	Sujin T	FT	2012
17.	Ajayan G R	PT – E	2012
18.	Awin R	PT – E	2012
19.	BenixKanjiravila T	PT – E	2012
20.	Nobert Leo Raja S	PT – E	2012
21.	Priyanka C	PT – E	2012
22.	Satheesh Kumar T N	PT – E	2012
23.	Sreejith B L	PT – E	2012
24.	Melbakani R	FT	2011

25.	Shaji Y	PT – E	2011
26.	Subramani Ramakrishnan	PT – E	2011
27.	Vinoth Kumar R	PT – I	2011
28.	Arunfred N	FT	2011
29.	Habeel Abdul	PT – E	2011
30.	Pradeep S	PT – E	2011
31.	RaheelGaniInamdar	PT – E	2011
32.	Santhakumar S	PT – E	2011
33.	Sreelal G. S	PT – E	2011
34.	Sumathi R	PT – E	2011
35.	SoumyamoyMaitra M. R	PT – E	2011
36.	MonitaSutherson	FT	2010
37.	Lekshmi P	PT – E	2010
38.	Nelson Vinotha Kumar Xavier P	PT – E	2010
39.	Roopa A.V.	PT – I	2010
40.	Velmurugan V P	PT – I	2010
41.	Bhaskaran S	Part time -E	2009
42.	Eapen K. C	Part time -E	2009
43.	Jeyaram j	Part time -E	2009
44.	Joseph rubert E	Part time -E	2009
45.	Pradeesh kumar N	Full time	2009

40. Number of post graduate students getting financial assistance from the university : Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology
Experts from the industry is consulted

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The members of the faculty are on the Board of Studies of the University. They involved in constantly upgrading the syllabi according to the recent class experience and developments in the field. The department utilize the feedback report from Staff Evaluation Form.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The feedback about teaching learning process is evaluated from the students. The feedback about each staff is discussed .

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumni and employers on the programmes offered. We collect feedback from passed out students.

43. List the distinguished alumni of the department (maximum 10) :

S. No.	Name of the Student	Organisation working
1.	NANDA GOPAL	Business Development Manager – Mumbai Win College
2.	HARIKRISHNAN.R	IDBI
3.	YABESH	Honda Ltd
4.	MANIKANDAN	SBI
5.	ANEESH K V	IDBI
6.	PREM AZHAGURAJ	TMB
7.	MANOJ KIRAN K	IDBI
8.	SUJENDHIRAN	CTS
9.	ARUN KUMAR M K	IDBI
10.	GLORIAN PILLAI G S	IDBI

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Students Enrichment Programme

S.	Date	Details of the Resource person	Topic

No.			
1.	07.08.2015	Organised by Govt. of kerala and exparties Malayalees Association	Global Business Meet
2.	10.8.2015	Mr. Mubarak IFS, Ambassador and Director General of Saudi Arabia	Leadership
3.	08.09.2015	Jessiah selvam, Coordinator, Scad group of institutions	MBA after Globalisation
4.	09.09.2015	Dr. B. William Dharmaraj, Head Dept of education, MS university	Strategies for effective teaching strategy
5.	22.8.2015	Dr. Kasilingam, Associate Professor, Pondicherry University	MBA Aspirants
6.	07.08.2015	Organised by govt. of kerala and exparties malayalees association	Global Business Meet
7.	10.8.2015	Mr. Mubarak IFS, Ambassador and Director General of Saudi Arabia	Leadership
8.	26.02.2013	Dr. Sreekumar , GM, Kerala state textile corporation	MBA Aspirants
9.	28-02- 2013	Rajiv Choubey Company secretary and Legal Head, Sterlite Industries Ltd., Touticurin	Work shop on Corporate Governance Sponsored by TMB
10.	21-05- 2013	Ms. Brintha , 5th rank in civil services exam	Civil service Aspirants
11.	30-05- 2013	Kumar radhakrishnan, , Programme Manager, Belfield, UK.	MBA Aspirants
12.	05-06- 2013	, Prof. M. Sebastin, Director, Dept. Eng. St. Xavier's college	Seminar on Motivation
13.	6-9-2013	Mr. Y. Shaji Project lead, Alliance Company ltd TVM. And Mr. Harikuttan, GM,	Attrition Retention of Employees in IT
14.	12-12 2012	Dr. M.K. Ramachandran Nair, Former VC Kerala Univ. Dr. Prasad, Director, MSN College	workshop on Research Ambience

15.	22.08.11	Ilankumaran, Dr. B. Krishnan, Dr. Umaiyourubhagan, Mr, Batchavachalam, Noorul Islam University	Induction programme
16.	13-10-11	Dr. Umiyourubhagan, Principal, NICAS	World disaster Day
17.	31-10-2011	Dr.K.Joseph Raj A P, St.Hindu College, Nagercoil	Guest Lecture for S1 MBA, Economics for Management Topic: Production Function
18.	14-11-2011	Dr.Shivaraman, Dean, University of Kerala	Leadership Skills
19.	16th and 17th September 2010	Dr. R. Ravanan , Associate Professor & Head Presidency college, Chennai	SPSS Workshop

45. List the teaching methods adopted by the faculty for different programmes :

a) Chalk & Talk
b) Case study analysis
c) PowerPoint presentation followed by discussions
d) Movie Screening followed by students' reflections and assignments.
e) Lectures by Industry experts
f) Workshops by professionals, Academicians, Visiting professors from foreign universities.
e) Use smart Room with ICT Technology

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department has a system of Conducting exams for students. Class tests, Internal assessment exams, model examinations are conducted to monitor the learning outcomes.

47. Highlight the participation of students and faculty in extension activities.

Antiragging
Blood Donation
Societal Club
Fine arts club

48. Give details of "beyond syllabus scholarly activities" of the department

- Department encourages the students and staff to participate in various national and international conferences to present their work.
- Department also conduct conferences, workshop and symposia each year

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

MOU with foreign universities, Student Exchange Programme with reputed instituitions.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

A SWOC analysis is a strategic planning tool that can be used during the curriculum assessment and review process to make informed decisions based upon collective input from multiple stakeholders of the department. Within the context of curriculum development, a SWOC analysis can be used as a powerful framework to discuss and clearly identify the strengths, weaknesses, opportunities and challenges related to an existing program. The objective of conducting a SWOC analysis is to develop key areas of focus for improving the curriculum. The SWOC analysis is particularly effective when conducted in collaborative group settings at the early stages of the curriculum assessment . The outcomes of the SWOC analysis will inevitably be used to help inform further curriculum discussions and decisions. It is important to clearly document the input, insight and ideas collaboratively generated during this process.

Strengths

1) Up-to-date training facilities
2) Employee working relationships
3) Relationships with Industries
4) Subject diversity has consistently allowed students to peruse a variety of subjects in post graduation or take jobs in industries.

5) Alumni of the department constantly contribute to the co curriculum activities, industry insights, summer internships and placements.
6) Well experienced teaching faculty
7) Very good hostel facilities within the campus attracts good number of students
8) Experienced faculty
9) 100% success rate
10) Department frequently arranges industrial visit, In-plant training and industrial tours to our students.
11) Latest teaching technologies implemented
12) A very good student teacher rapport is maintained.
13) Most of the students opting for placement get placed
14) Excellent Infrastructure
15) Industry, Institute Interaction
16) ISO 9001:2008 based work activities
17) There are adequate computational facilities and business application softwares
18) There are active research programmes and thus faculty are well motivated

Weaknesses

1) Recruitment and retention at all levels (career, part-time, volunteer)
2) The projects being done in this department is yet to be funded by the external funding agencies

Opportunities

1. World class technology in the campus attracts more foreign students in near future.
2. Continuous involvement of students year after year in projects will help achieve measurable results
3. With a large student population in the campus, various student related studies are possible
4. The technology innovation centre located inside the campus can be used for the benefit of faculty and students.
5. Opportunities lies in implementing new technologies , quality improvement, recruiting the best faculty, and growing in research activities.
6. Achieving in making students 100% employable to get placement in industry and research .
7. NIU Satellite launching programme explore education to the rural and remote areas

Challenges

1. Identifying current professionals for student enrichment activities in professional areas.
2. Getting placements and good academic records for the students

3. The placement department must be strengthen to have close interaction with leading industries .
4. To copy with the recent changes in development and technology and impart to the students

52. Future plans of the department :

- The Department plans to conduct on-line diploma courses.
- To establish a center of excellence in collaboration with industry and research
  laboratories.
- To introduce short-term Diploma and certificate Courses in Business Studies along with their regular degree.
- To implement a Learning Management System, which consists of online testing,
- Online lecture notes for the students.
- Improve the research facility of the department
  The department will work on getting patents for its innovations.
  To get more funded projects.
  To improve industry collaborations

Department Evaluative Report

Department of Computer Applications



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Computer Applications
Evaluative Report

1. **Name of the Department** : Computer Applications

2. **Year of establishment** : August 1994

3. **Is the Department part of a School/Faculty of the university?**
   Faculty of Information and Communication Engineering

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   PG Course : MCA
   Doctoral Course : Ph.D. in Computer Applications

5. **Interdisciplinary programmes and departments involved :**

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1505-Operations Research	2nd	Mathematics
2.	MS1518-Accounting and Financial Management	2nd	Business Administration
3.	MA1504-Discrete Structures	1st	Mathematics
4.	MA608-Operation Research	2nd	Mathematics
5.	MA709-Discrete Structures	1st	Mathematics
6.	MS621-Accounting and Financial Management	1st	Business Administration
7.	MC1625-Human Resource Management	3rd	Business Administration

6. **Courses in collaboration with other universities, industries, foreign institutions, etc :**
   We have collaboration with several industries for conducting various training programs and courses for both staffs and students.
   i) Collaboration with IBM for conducting DB2, RAD and RFT courses for faculties and students.
   ii) Collaboration with Infosys for conducting Campus Connect Program to the faculties.
   iii) Collaboration with ICTACT Academy for conducting training Programs to faculties and students

7. **Details of programmes discontinued, if any, with reasons :**
   Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**
   Semester / Choice Based Credit System

9. Participation of the department in the courses offered by other departments :

Handling computer specialization subjects in MBA department.

Sl. No	Subject Code and Subject Name	Course	Year	Department offering the course
1.	MS15E6- E-Commerce Management	MBA	2nd	Business Administration
2.	MS1609-E-Business	BBA	1st	Business Administration
3.	MS15E5-Software Project & Quality Management	MBA	2nd	Business Administration
4.	MS15E7-Enterprise Resource Planning	MBA	2nd	Business Administration
5.	MS15E2 Data Warehousing and Data mining	MBA	2nd	Business Administration

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professors	2	2	2
Asst. Professors	6	6	6
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization , experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience (year.month)	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.M.K.Jeya Kumar	M.C.A.,M. Tech.,Ph.D.	Professor	Networks	21.11	13
Dr.J.R.Jeba	M.C.A., M.Phil, Ph..D	Associate Prof & Head	Data Mining	17.8	11
Ms. S.Beulah	M.C.A., M.Phil., (Ph.D)	Associate Professor	Cloud computing	16.5	3

Name	Qualification	Designation	Specialization	No. of Years of Experience (year.month)	No. of Ph.D./M.Phil. students guided for the last 4 years
Ms. F. Fanax Femy (On Leave)	M.C.A., M.Phil, (Ph.D)	Assistant Professor	Digital Image Processing	11.5	-
Mr. U. Kumaran,	B.E., M.E (Ph.D)	Assistant Professor	Net Working	12.1	-
Dr.A.C.Subhajini	M.Sc.,M.Phil., Ph.D	Assistant Professor	Neural Networks	10.11	3

Faculty members associated with mechanical department

Name	Qualification	Designation	Specialization	No. of Years of Experience (year.month)	No. of Ph.D./M.Phil. students guided for the last 4 years
Mr.M.Victor Jose	M.E.,(Ph.D)	Associate Prof	Grid Computing	16.11	1

Faculty members associated from department of mathematics

Name	Qualification	Designation	Specialization	No. of Years of Experience (year.month)	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.K.Uma Samundesvari	M.Sc., M.Phil., PGDCA, Ph.D.	Asst. Prof.	Graph Theory	16y 8m	02
Dr.R.Binthiya	M.Sc., M.Phil, Ph.D.	Asst. Prof.	Graph Theory	8y4m	02

Faculty members associated from department of Software Engineering

Name	Qualification	Designation	Specialization	No. of Years of Experience (year.month)	No. of Ph.D./M.Phil. students guided for the last 4 years
Ms. M. Merlin Johnsy	M.C.A., M. Phil	Assistant Professor	Computer Applications	10 Yrs	10
Ms. V. Alan Gowri Phivin	M.C.A., M. Phil, (Ph.D.)	Assistant Professor	Computer Applications	10 Yrs	11

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information : (Research Scholar)

Sl. No	Program Name	Year	Percentage
1	MCA	2013-Till Date	10 %

14. Programme-wise Student Teacher Ratio :

Sl. No.	Name of the Programme	Student-Teacher ratio
1.	MCA	12 :1

15. Number of academic support staff (technical) and administrative staff sanctioned, filled and actual :

	Academic support staff	Administrative staff
Sanctioned	1	1
Filled	1	1
Actual	-	-

16. Research thrust areas as recognized by major funding agencies :

No	Research Area
1	Networks • Wireless networks • Mobile Communication • Network Security

	• Vehicular Networks
2	Data Mining • Association Rule Mining • Knowledge discovery • Web Mining • Classification • Clustering
3	Grid & Cloud Computing • Security in computing • Virtual network security • Data Security
5	Digital Image Processing • Data Compression • Segmentation • Restoration
7	Neural Networks • Associative learning • Supervised learning

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Nil

18. Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration :

Sl.No.	Name of the Organization	Date of Signing the MOU
1	IBM India (P) Ltd., Bangalore	December 16, 2010
2	Infosys Technologies Limited, Bangalore	March 10, 2011
3	ICTACT	May 19,2011

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with :

- MCA Lab is equipped with the following software and tools for research
  - MATLAB
  - WEKA
  - NS2
  - Cloudsim

- MoU with the following universities

Sl.No.	Name of the University	Date of Signing the MOU
1	Liverpool John Moores University,United Kingdom	March 11, 2011
2	Providence University, Taiwan	March 24, 2011
3	University Teknologi Mara, Malaysia	December 8, 2011
4	UniversiUniversity of Medicine and Dentistry of New Jersey, U.S.A	January 28, 2012
5	Doctors Academy, U.K	January 28, 2012
6	Indo-European Centre, Vistula University, Warsaw, Poland	January 28, 2012

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Sl.No	Sponsoring industry	Software Name
1.	IBM	RAD
2.		DB2
3.		RFT
4.	ICTACT	Android

22. Publications :

- Number of papers published in peer reviewed journals (national / international) :54
- Monographs :Nil
- Chapters in Books :Nil
- Edited Books :Nil
- Books with ISBN with details of publishers :Nil
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) :
- Citation Index – range / average :Nil
- SNIP :Nil
- SJR :Nil
- Impact Factor – range / average : 1.2
- h-index :

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
1.	Dr.M.K. Jeyakumar	Evaluation of Energy-Aware QoS Routing Protocol for Ad Hoc Wireless Sensor Networks	International Journal of Electrical and Electronics Engineering	Vol. 3, No. 4, pg: 200-2005,	August 2007	-
2.		Performance analysis of Energy-Aware QoS Routing Protocol for Ad Hoc Sensor Networks	International Journal of Computer Science and Network Security (IJCSNS)	Vol. 8, No.4, pg: 94 – 100,	Apr 2008	-
3.		Distributed Positioning Technique in Wireless Ad Hoc Sensor Networks,	International Journal of Computer Sciences and Engineering Systems	Vol. 2, No. 3, Pg: 193 – 199,	July 2008.	-
4.		Evaluation of Energy-Aware QoS Routing Protocol for Ad Hoc Wireless Sensor Networks	International Journal of Computer Systems Science and Engineering	Vol. 3 No 4, Pg: 200 - 205	July - 2008	-
5.		Distributed Computing Technique for Collaborative Signal and Information Processing in Wireless Ad Hoc sensor Networks	International Journal of Computer Sciences and Engineering Systems	Vol. 3, No. 3.	July 2009	-
6.		Distributed Computing Techniques for Positioning Nodes in Wireless Ad Hoc Sensor Networks	International Journal of Soft Computing	Vol. 3, No4. pg: 308-314,	October 2008	-

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
7.		Energy-Aware QoS Routing Protocol for Ad Hoc Wireless Sensor Networks: A Survey	International Journal of Soft Computing	Vol. 4, No.1, Pg: 49-55	January 2009	0.13
8.		Performance Analysis of MANET Routing Protocols In Different Mobility Models	International Journal of Computer Science and Network Security (IJCSNS)	Vol. 9, No. 2, pg: 22-29	Feb 2009	-
9.		Performance Analysis of MANET Reactive Routing Protocols in Different Mobility Models	International Journal of Computational Intelligence Research (IJCIR)	Vol.3, No.1	March 2009	-
10.		A Survey of Mobile Ad Hoc Reactive Routing Protocols in Two Different Mobility Models	International Journal of Engineering & Technology (IJET)	Vol. 1, No.1, Pg: 82 – 87	April 2009	-
11.		A Survey of MANET Routing Protocols in Mobility Models	International Journal of Soft Computing	Vol. 4, No.3., Pg: 136 – 141	May 2009	0.13
12.		Distributed Computing Technique for Collaborative Signal and Information Processing in Wireless Ad Hoc sensor Networks	International Journal of Computer Sciences and Engineering Systems	Vol. 3, No.3	July 2009	-

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
13.		Evaluation of energy-aware QoS routing protocol for ad hoc wireless sensor networks	World Academy of Science, Engineering and Technology		2009	0.13
14.		Evaluation of Energy-Aware QoS Routing Protocol for Ad Hoc Wireless Sensor Networks	International Journal of Electrical and Electronics Engineering,	Vol. 4, No. 3, pp 200-2005.	2010	-
15.		Hybrid Approaches to Image Coding: A Review	International Journal of Advanced Computer Science and Applications.	Vol. 2, No. 7	2011	-
16.		Error Filtering Schemes for Color Images in Visual Cryptography	International Journal of Advanced Computer Science and Applications.	Vol. 2, No. 11	November 2011	-
17.		A Strong Encryption Method of Sound Steganography by Encoding an Image to Audio	International journal of Information and Electronics Engineering	Vol. 2 No.3	May 2012	-
18.		Wavelet Based Image Coding Schems: A Recent Survey	International Journal of Soft Computing	Vol. 3, No.3., Pg: 136 – 141	Aug 2012	-

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
19.		A Review on Classifiers Used in Face Recognition Methods Under Pose and Illumination Variation.	International Journal of Computer Science	Vol. 9, No.2	November 2012	-
20.		A Study on Fractal Image Compression Using Soft Computing Techniques.	International Journal of Computer Science	Vol. 9, No.2	November 2012	-
21.		Performance Analysis of Ad Hoc Sensor Routing Protocols Under Random Mobility Models	IETECH Journal of Information Systems	Vol. 1, No.2, pg: 59-66	Oct 2007	-
22.		A Novel Authentication Scheme	IETECH Journal of Communication Techniques	Vol. 1, No. 1 pg 23 – 27	June 2008	-
23.		Intelligent congestion Aware Media Independent Handover for the 4G Heterogeneous wireless network.(3)	International Journal of Soft Computing	7(4) pg: 210-216	2012	0.15
24.		A Novel Congestion based Approach for Vertical Handover	International Journal of Latest Trends in Engineering and Technology	Pg: 63-67, Vol:2, No. 2, 2013	2013	-

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
25.		Implementation of cache-cache mechanism and minimum spanning tree for multiparty copy right protection in visual cryptography	Life Science Journal		2013	0.165
26.		Vertical Handoff and Data Recovery using Temporary and Permanent Checkpoints in 4G Heterogeneous Wireless Networks	European Journal of Scientific Research	Vol.98, pp. 521-528, 2013	2013	0.736
27.		Controlled-adaptable distributed data and file sharing with multiple participants in visual cryptography	International Review on Computers and Software		2013	0.243
28.		User Data Rate Based Vertical Handoff in 4G Wireless Networks	Journal of Theoretical and Applied Information Technology	Vol.58, pp.166-176, 2013	2013	0.15
29.		Performance Assessment of Fractal Coding on Remote Sensing Images with Different Imaging Modalities	International Journal of Engineering and Advanced Technology (IJEAT)	pp 2249 8958, Volume-2, Issue-6, Aug 2013.	2013	-

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
30.		A Novel Approach to Face Recognition with Pose and Illumination Variation Using Support Vector Machine as Classifier",	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	pp 2278-3075, Vol-3, Issue-4, Sep 2013.	2013	-
31.		An efficient hybrid algorithm for low bit rate Image coding	Proceeding of the International Conference on Artificial Intelligence in Computer Science and ICT	(e-ISBN 978-967-11768-3-2),	2013	
32.		A novel efficient discriminate component analysis algorithm for face recognition	Journal of Theoretical and Applied Information Technology	58(2) PP. 270 – 28, December 2013(Scopus)	2013	0.15
33.		Vertical Handoff and Admission Control Strategy in 4G Wireless Network Using Centrality Graph Theory	Research Journal of Applied Sciences, Engineering and Technology	Accepted to be published on June, 2014	2014	0.16
34.		A novel approach of FIC for compression of large scale remote sensing color images	Journal of Theoretical and Applied Information Technology		2014	0.15

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
35.		An Enhanced Geometric Wavelet Based Hybrid Image Compression Algorithm for Low Bit Rate Applications	European Journal of Scientific Research	Volume 116 No 4, Jan, 2014, pp 544-555	2014 Jan	-
36.		Effect of Tiling on the Performance of GW Algorithm for Image Coding	Australian Journal of Basic and Applied Sciences	8(6) April 2014, Pages: 112-122. (Scopus)	Apr 2014	0.45
37.		A Novel Hybrid Approach Based Geometric Wavelets For Efficient Image Compression	Journal of Theoretical and Applied Information Technology	30th April 2014. Vol. 62 No.3, pp 643-652	Apr 2014	0.15
38.		An improved algorithm for image compression using Geometric image approximation	International Journal of Electrical, Electronics and Data Communication	ISSN: 2320-2084 Vol-2, Issue-6, June-2014	June 2014	-
39.		Secured privacy preserving mechanism for distributed digital documents	Research Journal of Applied Sciences, Engineering and Technology	495-503, Vol. 10, issue 5	June 2015	0.16
40.		A novel rate-distortion optimized tree structured hybrid algorithm for coding of digital images	International Journal of Soft Computing		2015	0.13

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
41.		General regression neural network for software effort estimation of small programs using a single variable	Lecture Notes in Electrical Engineering		2015	0.02
42.	Dr.J.R.Jeba	A Novel approach for finding Frequent Item Sets with Hybrid strategies	International Journal Of Computer Applications	Vol. No : 17, No: 5 Pg : 30-33	March 2011	0.814 (in 2011)
43.		Comparison of Frequent item set Mining Algorithms	International Journal of Computer Science and Information Technologies	Vol. 2 (6) , pp. 2838-2841	Dec 2011	-
44.		Effective Measures in Association Rule Mining	International Journal of Scientific & Engineering Research	Volume 3, Issue 8,	August 2012	0.2
45.		Predictive data Mining to Support Clinical Decisions	Journal of Image Processing and Networking	Volume 8, Specila Issue V Feb 2014	Feb 2014	-
46.	Mr.M. Victor Jose	A SVM Technique Incorporated with document Database for Automatic Word Correction.	International Journal of Computational Intelligence Research and Applications	Vol. 6 No.1 2012 Pages 15-17	2012	
47.		Minimum Cost Virtually Single Storage Private Grid using OGA	European Journal of Scientific Research	Vol. 80 Issue 1 July 2012 PP 77-86	July 2012	0.16

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
48.		Enhancement Security Measures by tunneling Protocol in Distributed Grid Network	International Journal of Computer Application	Vol.4 Issue 2 August 2012 PP 108-115	Aug 2012	
49.		Amplifying Security for cipher-Text Policy Attribute-Based Data Sharing	International Journal of Science, Engineering and Technology Research	Vol.2 Issue 4 April 2013 PP 769-777	April 2013	
50.		An Enhanced Opass With Modified Elliptic Curve Cryptography-Based User Authentication Scheme For Grid Computing	Life Science Journal	Vol 10, Issue 3, Pg 1688-1696, 2013	2013	1.0
51.	Dr.A.C. Subhajini	"Computational Analysis of Optical Neural Network Models to Weather Forecasting"	IJCSI International Journal of Computer Science	Vol.7, Issue 5, Pg:327-330	2010	2.08
52.		"An Efficient Weather Forecasting System using Radial Basis Function Neural Network"	Journal of Computer Science	Volume 7, Issue 7, Pages 962-966	2011	0.39
53.		Fuzzy ARTMAP neural network architecture for weather forecasting	Journal of Theoretical and Applied Information Technology	Vol. 34 No.1 Pg:22-28	2011	0.51

Sl. No	Author	Title of the paper	Journal Name	Vol., No., Pg	Month &Year of Publication	Impact Factor/SNIP/SJR
54.		Computational Performance of GRNN in weather forecasting	Asian Journal of Information Technology	Vol.10,Issue5 pp.165-169	2011	0.18

23. Details of patents and income generated :

Artificial Visual Implant Device patented in the name of NICE up to 2024. Listed under section 2(f) of UGC Act 1956 - (F. 8-123/2006 (CPP-I))

24. Areas of consultancy and income generated :

Sl. No.	Name of the faculty member	Areas of consultancy carried out	Income generated (Rs)
1	Dr.J.R.Jeba	National Missionary Society of India (NMSI)	-

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Faculty Name	Industry Visited	Place	Date
Dr.J.R.Jeba Prof.U.Kumaran Prof.A.C.Subhajini	SciWiz Pvt.Ltd., ITES Habitat Centre	Cochin	10/10/2014
Prof.S.Beulah Prof.F.Fanax Femy	VSSC, ISRO , Trivandrum	Trivandrum	11/09/2013
Prof.U.Kumaran Prof.A.C.Subhajini Prof.F.Fanax Femy	Infosys	Trivandrum	05/10/2012
Prof.S.Beulah Prof.U.Kumaran	Xyphix Technologies, TechnoPark	Trivandrum	11/11/2010
Prof.J.R.Jeba Prof.U.Kumaran	Technopark	Trivandrum	28/10/2010

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

Faculty Member	Key Committees
Dr.M.K.Jeyakumar	• **Sub Reviewer** in The International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems ICAEES 2014 • **Sub Reviewer** in International Conference

	on Circuits, Power and Computing Technologies ICCPCT-2013 • **Sub Reviewer** in International Conference on Electronics, Communication and Computational Engineering ICECCE2014
Dr.J.R.Jeba	• **Sub Reviewer** in IEEE International Conference on Control, Instrumentation, Communication & Computational Technologies ICCICCT-2014 • **Sub Reviewer** in The International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems ICAEES 2014 • **Chair Person** for the IEEE Conference, "International Conference on Emerging Trends in Engineering, Business and Disaster Management" [ICBDM 2015] to be held on 27 & 28th February 2015, to be conducted by the Department of MBA, Noorul Islam University.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

	Name of Staff	Name of the program	Year
1.	**Dr. M.K. Jeya Kumar**	Two days Worshop on " Training the Trainers" at Noorul Islam college of Engineering.	16-07-1999 & 17-07-1999
2.		Five days AICTE sponsored programme on "Human Resource Development" held at Noorul Islam college of Engineering.	29-06-2003 To 03-07-2003
3.		One day workshop on " Patent Awareness" at Noorul Islam college of Engineering.	16-02-2004
4.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013
5.	**Dr.J.R.Jeba**	Two days Worshop on " Training the Trainers" at Noorul Islam college of Engineering.	16-07-1999 & 17-07-1999

	Name of Staff	Name of the program	Year
6.		One day workshop on " Patent Awareness" at Noorul Islam college of Engineering.	16-02-2004
7.		Faculty Development Programme on "Software Quality Management & Software Documentation" held at K.L.N. College of engineering, Pottapalayam.	24-07-2004
8.		Two day worshop on " Gateway to Research" organized by Technology Research and Development center of Noorul islam college of engineering, kumaracoil.	09-12-2005 & 10-12-2005
9.		Two days Worshop on " Training the Trainers" at Noorul Islam college of Engineering.	16-07-1999 & 17-07-1999
10.		One day workshop on " Patent Awareness" at Noorul Islam college of Engineering.	16-02-2004
11.		Faculty Development Programme on "Software Quality Management & Software Documentation" held at K.L.N. College of engineering, Pottapalayam.	24-07-2004
12.		Two day worshop on " Gateway to Research" organized by Technology Research and Development center of Noorul islam college of engineering, kumaracoil.	09-12-2005 & 10-12-2005
13.		One day workshop on "Image Processing", organized by Dept. of Computer Applications, Noorl Islam College of Engineering.	19-03-2010
14.		One day workshop on "LaTex" Organized by the department of Mathematics, Noorul Islam Centre for Higher Education".	15-12-2010 & 16-12-2010
15.		One day Workshop on "Infosys Foundation Program" conducted at Noorul Islam Centre For Higher Education,Kumaracoil	07-06-2011

	Name of Staff	Name of the program	Year
16.		One day workshop on "Make Research Simple" organized by Arunachala college of Engineering For Women	13-08-2011
17.		One Day National Workshop on Image Processing using MATLAB Organized by Noorul Islam Centre For Higher Education	28/10/2011
18.		One Day Workshop on Multimedia Organized by Noorul Islam Centre For Higher Education	02/02/2012
19.		Two Day Workshop on WEKA (a Data mining Tool) organized by St.Xaviers college(Autonomous) , Palayamkottai	09,10/03/2012
20.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013
21.		Faculty Orientation Programme Conducted by NICHE	09/06/2015 to 11/06/2015
22.	**Prof.M.Victor Jose**	Faculty Development Programme on Prospective Issues and Methodologies in Human machine Interaction conducted National Engineering college, Kovilpatti.	17/05/2010 to 21/05/2010
23.		One day workshop on "Cloud Computing" at Cape Institute of Technology	12-03-2010
24.		National level Workshop on "Engineering Graphical System Design using Lab VIEW" at NICHE	05-01-2011 to 07-01-2011
25.		National level Workshop on "Recent trends in Grid and Cloud Computing" at Kongu Engineering College	22-01-2011
26.		National level Workshop on "Research Issues in Wireless Networks" at Sun College of Engineering and Technology	07-05-2011

	Name of Staff	Name of the program	Year
27.		Two days seminar on "Research issues in Cloud and Grid Computing " Conducted by Mepco Schlenk Engineering College,Sivakasi	14 ,15/10/2011
28.		One day workshop on " Research project Writing" at NICHE	21-08-2012
29.		National Workshop on "BIG DATA" conducted by Department of computer Science and Engineering	29/08/2013
30.		National Workshop on "New Generation of Business Computing through Cloud" conducted by Noorul Islam University	28,29/03/2014
31.	**Ms. S.Beulah**	Two day worshop on " Gateway to Research" organized by Technology Research and Development center of Noorul islam college of engineering, kumaracoil.	09-12-2005 & 10-12-2005
32.		One day Workshop on "Infosys Foundation Program" conducted at Noorul Islam Centre For Higher Education,Kumaracoil	07-06-2011
33.		One Day National Workshop on Image Processing using MATLAB Organized by Noorul Islam Centre For Higher Education	28/10/2011
34.		Three days training program on "Skilledge-OOPs using C++" conducted by ICTACT at PET Engineering College, Valliyur	13-06-2011 to 15-06-2011
35.		One day workshop on "Image Processing", organized by Dept. of Computer Applications, Noorl Islam College of Engineering.	19-03-2010
36.		One day workshop on multimedia organized by Dept of Computer Applications, NICHE	02-02-2012
37.		Two week ISTE workshop on Introduction to Research Methodologies by MHRD	25-06-2012 To 04-07-2012

	Name of Staff	Name of the program	Year
38.		Workshop on Research Project Writing Conducted by NICHE	21-08-2012
39.		National level workshop on Controls Image processing Applications: Hands on Training using MATLAB Conducted by Electronics and Instrumentation Engineering by NICHE	18-10-2012 To 20-10-2012
40.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013
41.		Five days FDP on Cloud infrastructure and services conducted by ICTACT at St.Xavier's Catholic college of Engineering, Nagercoil	20.01.2014 to 24.01.2014
42.		Faculty Orientation Programme conducted by NICHE	09/06/2015 to 11/06/2015
43.		National Workshop on Cyber Security and Cyber Forensics Conducted by NICHE	31/03/2015
44.	**Ms.F.Fanax Femy**	Two days workshop on professional ethics on July 2004 organized by department of mechanical engineering at the Rajaas Engineering college campus,vadakangulam	02-07-2004 & 03-07-2004
45.		One day Workshop on "Infosys Foundation Program" conducted at Noorul Islam Centre For Higher Education,Kumaracoil	07-06-2011
46.		Two Days Work Shop on "Gateway to Research"Conducted at Noorul Islam Centre for higher Education	23-9-2011 & 24.9.2011
47.		One Day National Workshop on Image Processing using MATLAB Organized by Noorul Islam Centre For Higher Education	28-10-2011
48.		Three Days Workshop on Soft Computing Tools in signal and Image Processing at St.Xavier's Catholic College of Engineering, Nagercoil	21-05-2012 to 23-05-2012

	Name of Staff	Name of the program	Year
49.		"Workshop on Research Project Writing" conducted at Noorul Islam Centre for Higher Education.	21-08-2012
50.		Two days Workshop on "Applications & Statistical Methods" conducted at Noorul Islam Centre for Higher Education	12-10-2012
51.		"National Level workshop on Contrast & Image Processing Applications" : Hands on Training using MATLAB " at Noorul Islam Centre for Higher Education	20-10-2012
52.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013
53.	**Mr. U.Kumaran**	International Conference on "Emerging Adaptive System and Technologies(EAST) 2007", held at Noorul Islam College of Engineering	25-10-2007 - 27-10-2007
54.		One day Workshop on Middleware Technologies held at Mepco Schlenk Engineering College, Sivakasi	20-02-2008
55.		National Workshop on Network Simulator (ns-2) organized by the department of information Technology held at Noorul Islam college of Engineering, kumaracoil.	25-04-2008
56.		One day workshop on SOA and WEB SERVICES held at Mepcoschelung College of Engineering.	05-09-2009
57.		One Day Workshop on " Image Processing" held at Noorul Islam University, kumaracoil.	19-03-2010
58.		Faculty Training program on "Microsoft .Net ", conducted by ICT Academy of Tamilnadu, held at Noorul Islam college of engineering.	29-05-2010 To 05-06-2010

	Name of Staff	Name of the program	Year
59.		One day Workshop on "Infosys Foundation Program" conducted at Noorul Islam Centre For Higher Education,Kumaracoil	07-06-2011
60.		One Day National Workshop on Image Processing using MATLAB Organized by Noorul Islam Centre For Higher Education	28/10/2011
61.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013
62.	**Dr.A.C.Subhajini**	One day workshop for Research Orientation held at Mother Teresa Women's University	03/01/09
63.		Two days workshop on "Mid-Term workshop and public Appraisal" held at Mother Teresa Women's University	14/12/2005& 15/12/2006
64.		UGC Sponsored National level Workshop, "Text formatting with LATEX" held at Vaishnav College for women at Chennai.	26/02/2011& 27/02/2011
65.		Coimbatore Institute of Technology,International conference on Modeling and Simulation	27-29 August ,2007
66.		Emerging Technologies in Electrical &Electronics System held at Noorul Islam College of Engineering ,Kumaracoil	8/3/2008
67.		One day workshop on "Infosys Foundation program" held at Noorul Islam Centre for Higher Education , Kumaracoil	07/06/2011
68.		Two days workshop on "Mini course on Algorithms and Data Structures" held at V.O. Chidambaram College,Thoothukudi	28/28,Sept , 2006
69.		"Workshop on Animation" conducted by Department of Computer Applications in Noorul Islam Centre for Higher Education	22-02-2013

	Name of Staff	Name of the program	Year
70.		Faculty Development Programme on Foundation program	15/12/14 to 19/12/2014

28. Student projects :

- **percentage of students who have done in-house projects including inter-departmental projects :**

S.No	Year	Course	Project	Percentage
1	2014-2015	MCA	Mini Project	100
2	2013-2014			100
3	2012-2013			100
4	2011-2012			100

- **Percentage of students doing projects in collaboration with other universities / industry / institute :**

S.No	Year	Course	Project	Percentage
1	2014-2015	MCA	Main Project	100
2	2013-2014			100
3	2012-2013			100
4	2011-2012			100

29. Awards / recognitions received at the national and international level by Faculty :

S.NO	Name of the Faculty	Year	Awards		Name of the Award
			International	National	
1	Prof.S.Beulah	2012-2013	-	1	Excellence Award for act as Teaching Assistant in ISTE Workshop

- **Doctoral / post doctoral fellows** : nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any :

Sl.No	Year	Program Name	Title	Resource person	Date
1.	2015-2016	Seminar	Opportunities in Computer Applications	Dr.N.Vetrivelan PMU Thanjavur	22/08/2015
2.	2014-2015	Seminar	Placement Training	Dr.N.Vetrivelan PMU Thanjavur	25/03/2015
3.	2013-2014	Computer Training Program	Training Program for Panchayat officers	Ms. J. R. Jeba Ms S. Beulah Ms. Alan Gowri NICHE	18-11-2013 To 22/11/2013
4.		Seminar	Infosys Campus Program	Webinar	12/07/2013
5.	2012-2013	Workshop	Animation	Mr. A. Ferdinand Christopher NICHE	22/03/2013
6.		Seminar	Personality Development Program	Mr. Neelakanda Pradeesh Kumar NICHE	23/7/2012
7.	2011-2012	Workshop	Image Processing using MATLAB	Dr. R. K. Selva Kumar Cape Institute of Tech	28/10/2011
8.		Seminar	Personality Development Program	Mr. Neelakanda Pradeesh Kumar NICHE	31/10/2011
9.		Seminar	IBM opportunities TGMC	Mr. Lawrence Mohanraj	19/01/2012
10.		Workshop	Multimedia	Ms. N. Ajitha, Ms. F. Fanax femy NICHE	02/02/2012
11.	2010-2011	Seminar	Technical talk	Dr. Achu Shankar Nair Professor,Kerala University	08-10-2010
12.		Seminar	Placement Training Program	Ms. Reva Prasanth Evision Lab, Trivandrum	21-10-10
13.	2009-2010	Seminar	Interview Techniques	Dr.M.Janardhanan Pillai Govt.College,	15-10-2009

				Karaikudi	
14.		Workshop	Image Processing	Dr. R. K. Selva Kumar Cape Inst. Of Tech	19/03/2010

31. Code of ethics for research followed by the departments :

The Code sets forth the ethical principles and standards that govern the professional work of education researchers. The Code of Ethics replaces the Ethical Standards, which were adopted in 1999 and have been only minimally modified since that time. The current Code is intended to provide guidance that informs and is helpful to education researchers in their research, teaching, service, and related professional work.

32. Student profile programme-wise :

Name of the programme	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
MCA	2015	74	9	25	Doing	
	2014	66	12	19	Doing	
	2013	30	6	8	83	100
	2012	36	7	10	100	100
	2011	15	4	3	100	100
	2010	20	3	5	100	100
	2009	36	5	12	100	100
Ph.D	2015	15	4	4	Doing	
	2014	22	6	3		
	2013	14	1	4		
	2012	10	2	2		
	2011	19	3	7		
	2010	11		3		
	2009	10		3		

33. Diversity of students :

Name of the Programme (refer to question no. 4)	Year	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MCA	2015-2016	-	76.5%	23.5%	Nil
	2014-2015	-	64.6%	35.4%	
	2013-2014	-	78.6%	21.4%	

Name of the Programme (refer to question no. 4)	Year	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
	2012-2013	-	76.5%	23.5%	
	2011-2012	-	71.5%	28.5%	
	2010-2011	-	87.5%	12.5%	
	2009-2010	-	70.5%	29.5%	
Ph.D	2015-2016	-	37.5%	62.5%	
	2014-2015	-	44.4%	55.6%	
	2013-2014	-	20%	80%	
	2012-2013	-	25%	75%	
	2011-2012	-	33.4%	66.6%	
	2010-2011	-	90%	10%	
	2009-2010	-	66.6 %	33.4 %	

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

Nil

35. Student progression :

Year	UG to PG	PG to M.Phil (%).	PG to Ph.D. (%)	Ph.D. to post doctoral (%)	Employed	
					Campus selection (%)	Other than campus recruitment (%)
2014-2015	**NA**	6.4%	Nil	Nil	6.4%	25.8%
2013-2014		Nil	14.2%	Nil	Nil	66%
2012-2013		12.5%	Nil	Nil	Nil	50%
2011-2012		Nil	Nil	Nil	17.6%	29.4%
2010-2011		Nil	Nil	Nil	Nil	48%
2009-2010		Nil	Nil	Nil	Nil	35%

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	100 %
from universities from other States	-
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

S.No	Name of the Faculty	University	Month and Awarded Year	Programme
1	Dr.M.K.Jeyakumar	Dr.M.G.R Research Institute University	Feb 2010	Ph.D
2.	Dr.J.R.Jeba	Mother Teresa Women's University	Dec 2013	Ph.D
3.	Dr.A.C.Subhajini	Mother Teresa Women's University	Oct 2014	Ph.D

38. Present details of departmental infrastructural facilities with regard to

a) Library :

The department has the Central Library and also Department has a department library with exclusive books for the course provided. Department Library has 555 books.

b) Internet facilities for staff and students :

Wi- Fi connection is available in the department for faculty and staff access. Internet is made available in all the computers in the department and can be used by faculty and students anytime. The faculties and the students were provided internet connectivity by means of MKN project from BSNL with a speed of 1 GBPS which they can access the resources.

c) Total number of class rooms : 4

d) Class rooms with ICT facility:

In the last five years, many faculties have developed ICT enabled course material for the subjects taught by them. Smart Room equipped with audio-visual teaching aids which are also used to teach students. Learner centric activities, like participatory learning, interactive sessions, student seminars, case studies, project work, assignments, problem solving exercises, and practical – field work are rigorously implemented.

d) Students' laboratories :

SL.No.	System Configuration/Peripheral Details	Number of systems
1.	Pentium IV/2.4 GHZ/36.0 GB HDD/1.44 FDD/15" Samsung color/Samsung Keyboard/Logitech Mouse/512 MB RAM/CD Drive	1
2.	Pentium-III/733 MHZ/20.0 GB HDD/1.44 FDD/Samsung color/Samsung Keyboard/Logitech mouse/128 MB RAM	2
3.	Pentium Core 2DUO208GHZ/Intel GD41RQ DESKTOP Board Umax 2GB/DDR-2/800 RAM/SATA 250 GB HDD/Samsung 19" LCD Monitor/Logitech Multimedia keyboard/Optimal mouse/2.4 GHZ Wireless-G PCI Adaptor	59 nos
4.	Intel Pentium Core 2 DUO/2.0 GHZ/512 MB RAM/80 GB HDD/1.44 MB FDD/17" Samsung Monitor Logitech Keyboard/Logitech Mouse	
5.	Pentium D(PIV) 2.66 GHZ/256 MB RAM/80 GB HDD/1.44 MB FDD/17" Samsung Monitor/Logitech Keyboard/Logitech Mouse/CD Drive/2.4 GHZ-PCI Adaptor	

f) Research laboratories:

Research laboratories are available in our University.

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

b) from other institutions/universities

Faculty who completed Ph.D from other University

S.No	Name of the Faculty	University	Month and Awarded Year	Programme
1	Dr.M.K.Jeyakumar	Dr.M.G.R Research Institute University	Feb 2010	Ph.D
2.	Dr.J.R.Jeba	Mother Teresa Women's University	Dec 2013	Ph.D
3.	Dr.A.C.Subhajini	Mother Teresa Women's University	Oct 2014	Ph.D

Faculty who are pursuing Ph.D from other University

S.No	Name of the Faculty	University	Programme
1	Mr.M.Victor Jose	Anna University,Chennai	Ph.D
1	Ms..S.Beulah	Bharathiar University,Coimbatore	Ph.D
2	Ms.F.Fanax Femy	Bharathiar University,Coimbatore	Ph.D

Faculty (Part-time) who are pursuing Ph.D from Host Institution

S.No	Name of the Faculty	Year	Programme
1	Mr.U.Kumaran	2012	Ph.D

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Yes, assessment exercise is a continuous process undertaken before revision/design of new programmes. The programme committee obtains feedback from students and staffs on curriculum and discusses the problems concerning curricula, syllabi. The Chairperson will prepare the minutes of every meeting, submit the same to the HOD within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any suggestions they are made as recommendations to BOS.

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The members of the faculty are on the Board of Studies of the University. They involved in constantly upgrading the syllabi according to the recent class experience and developments in the field. The department utilize the feedback report from Staff Evaluation Form.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The feedback about teaching learning process is evaluated from the students. The feedback about each staff is discussed .

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumni and employers on the programmes offered. We collect feedback from passed out students.

43. List the distinguished alumni of the department (maximum 10) :

1.	Ajith Kumar	Blue Shift India
2.	Aayisha	TCS
3.	Anu Sam	Wipro Tech.
4.	Suvitha	Clientele
5.	Syam Gopal	National Info. Centre
6.	Nishath	National Info. Centre
7.	Darshana John	L & T
8.	Indira	EDS
9.	Sonia Blessie	CTS
10.	Muhammed Mucheen	RedTag

44. Give details of student enrichment programmes (special lectures /

workshops / seminar) involving external experts :

Sl.No	Year	Program Name	Title	Resource person	Date
1.	2015-2016	Seminar	Opportunities in Computer Applications	Dr.N.Vetrivelan PMU Thanjavur	22/08/2015
2.	2014-2015	Seminar	Placement Training	Dr.N.Vetrivelan PMU Thanjavur	25/03/2015
3.	2013-2014	Computer Training Program	Training Program for Panchayat officers	Ms. J. R. Jeba Ms S. Beulah Ms. Alan Gowri NICHE	18-11-2013 to 22/11/2013
4.		Seminar	Infosys Campus Program	Webinar	12/07/2013
5.	2012-2013	Workshop	Animation	Mr. A. Ferdinand Christopher NICHE	22/03/2013
6.		Seminar	Personality Development Program	Mr. Neelakanda Pradeesh Kumar NICHE	23/7/2012
7.	2011-2012	Workshop	Image Processing using MATLAB	Dr. R. K. Selva Kumar Cape Institute of Tech	28/10/2011
8.		Seminar	Personality Development Program	Mr. Neelakanda Pradeesh Kumar NICHE	31/10/2011
9.		Seminar	IBM opportunities TGMC	Mr. Lawrence Mohanraj	19/01/2012
10.		Workshop	Multimedia	Ms. N. Ajitha, Ms. F. Fanax femy NICHE	02/02/2012
11.	2010-2011	Symposium	Technical Symposium	Dr. Achu Shankar Nair Professor,Kerala University	08-10-2010
12.		Seminar	Placement Training Program	Ms. Reva Prasanth Evision Lab, Trivandrum	21-10-10
13.	2009-2010	Seminar	Interview Techniques	Dr.M.Janardhanan Pillai Govt.College, Karaikudi	15-10-2009
14.		Workshop	Image	Dr. R. K. Selva	19/03/2010

			Processing	Kumar Cape Inst. Of Tech	

45. List the teaching methods adopted by the faculty for different programmes :

a. Chalk & Talk
b. Case study analysis
c. PowerPoint presentation followed by discussions
d. Movie Screening followed by students' reflections and assignments.
e. Lectures by Industry experts
f. Workshops by professionals, Academicians, Visiting professors from foreign universities.
g. Use smart Room.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The department has a system of Conducting exams for students. Class tests, Internal assessment exams, model examinations are conducted to monitor the learning outcomes.
- Programme objectives are constantly met by upgrading the syllabus according to present day need. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedbacks, class committee meeting, programme committee meeting.

47. Highlight the participation of students and faculty in extension activities :

- Anti ragging
- Blood Donation
- NSS

48. Give details of "beyond syllabus scholarly activities" of the department :

- Department encourages the students and staff to participate in various national and international conferences to present their work.
- Department also conduct conferences, workshop and symposia each year
- Many students periodically participate in the technical and sports activities conducted by the University as well as by other colleges.
- Students and faculty members take part in various club activities.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

- Focusing on imparting communication skills;
- Teaching Soft Skills,aptitude skills,reasoning skills to cope up IT industry
- Conducts every year seminars and workshops at national level;
- Innovative Student Projects with new ideas as part of curriculum
- Making students a part of the research done by the faculty

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

A SWOC analysis is a strategic planning tool that can be used during the curriculum assessment and review process to make informed decisions based upon collective input from multiple stakeholders of the department. Within the context of curriculum development, a SWOC analysis can be used as a powerful framework to discuss and clearly identify the strengths, weaknesses, opportunities and challenges related to an existing program. The objective of conducting a SWOC analysis is to develop key areas of focus for improving the curriculum. The SWOC analysis is particularly effective when conducted in collaborative group settings at the early stages of the curriculum assessment . The outcomes of the SWOC analysis will inevitably be used to help inform further curriculum discussions and decisions. It is important to clearly document the input, insight and ideas collaboratively generated during this process.

Strengths

1. Up-to-date training fecilities
2. Employee working relationships
3. Relationships with Industries
4. Subject diversity has consistently allowed students to peruse a variety of subjects in post graduation or take jobs in industries.
5. Alumni of the department constantly contribute to the co curriculum activities, industry insights, summer internships and placements.
6. Well experienced teaching faculty
7. Very good hostel facilities within the campus attracts good number of students
8. Experienced faculty
9. 100% success rate
10. Department frequently arranges industrial visit, In-plant training and industrial tours to our students.
11. Latest teaching technologies implemented
12. A very good student teacher rapport is maintained.
13. Most of the students opting for placement get placed
14. Excellent Infrastructure
15. Industry, Institute Interaction
16. ISO 9001:2008 based work activities
17. There are adequate computational facilities and software’s.

18) There are active research programs and thus faculties are well motivated.

Weaknesses

1) Recruitment and retention at all levels (career, part-time, volunteer)
2) The projects being done in this department is yet to be funded by the external funding agencies

Opportunities

1) Continuous involvement of students year after year in projects will help achieve measurable results
2) With a large student population in the campus, various student related studies are possible
3) The technology innovation centre located inside the campus can be used for the benefit of faculty and students
4) Opportunities lies in implementing new technologies , quality improvement, recruiting the best faculty, and growing in research activities.
5) Achieving in making students 100% employable to get placement in industry and research .

Challenges

1. Identifying current professionals for student enrichment activities in professional areas.
2. Getting placements and good academic records for the students
3. The placement department must be strengthen to have close interaction with leading industries .

52. Future plans of the department.

- The Department plans to conduct on-line diploma courses.
- To establish a center of excellence in collaboration with industry and research laboratories.
- To introduce short-term Diploma Courses in Computer Applications, Multimedia and Bio informatics.
- To implement a Learning Management System, which consists of online testing,
- Online lecture notes for the students.
- Improve the research facility of the department
- The department will work on getting patents for its innovations.
- To get more funded projects.
- To improve industry collabarations

Department Evaluative Report

Department of Software Engineering



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Software Engineering
Evaluative Report

1. Name of the Department : Department of Software Engineering

2. Year of establishment : 1999

3. Is the Department part of a School/Faculty of the university?

Yes, Department of Software Engineering is part of Faculty of Computer Science.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)

Name of the Programme	Remarks
M. Sc. Software Engineering	Integrated Masters (5 Years)
M. Phil. Computer Science	Full Time (1 Year)
Ph.D Computer Science	Full Time and Part Time

5. Interdisciplinary programmes and departments involved

Sl.No	Interdisciplinary courses offered	Semester & Branch	Name of Departments involved
1.	EG801-Communicative English I	S1 M.Sc SE	Department of English
2.	MA801 – Mathematical Techniques	S1 M.Sc SE	Department of Mathematics
3.	EG802-Communicative English II	S2 M.Sc SE	Department of English
4.	MA802 – Numerical Techniques	S2 M.Sc SE	Department of Mathematics
5	MA803 – Mathematical Techniques II	S3 M.Sc SE	Department of Mathematics
6.	MA804 – Discrete Mathematical Structures	S4 M.Sc SE	Department of Mathematics
7.	MA805 – Optimization Techniques	S5 M.Sc.SE	Department of Mathematics

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Sl.No	Collaborative Courses Offered	Remarks
1.	Mobile Application Development	Infosys Industry Elective

7. Details of programmes discontinued, if any, with reasons

NIL

8. Examination System: Annual/Semester/Trimester/Choice Based

Credit System

Semester and Choice based credit System

9. Participation of the department in the courses offered by other departments

Sl.No	Name of the courses handled for other departments	Name of the Department
1.	CS17S1 – Office Automation	Department of Mathematics
2.	CS 17S2 – C programming and Problem Solving Methods	Department of Mathematics
3.	CS 1771 – Computer Fundamentals and C Programming Lab	Department of Mathematics

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professors	1	1	1
Asst. Professors	8	8	8
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. C. Ratnam Nadar	M.Sc., M.Phil., Ph.D.	Professor	Statistics	42 Yrs	10
Prof J. Charles	M.Sc., M.Phil., M.Tech, (Ph.D.)	Associate Professor	Information Technology	18 Yrs	01
Mr. J.P. Jayan	M.C.A., M. Phil, (Ph.D.)	Assistant Professor	Computer Application	10 Yrs	12
Mr. C.R. Sheela Kumari	M.C.A., M. Phil	Assistant Professor	Computer Science	18 Yrs	10
Ms. S. Jerine	M. Sc(CT) M. Phil, (Ph.D.)	Assistant Professor	Computer Technology	10 Yrs	10

Ms. Melbin. J. Reena	M. Sc., M.Phil., M.Tech.	Assistant Professor	Information Technology	10 Yrs	11
Ms. R.I. Heaven Rose	M.Sc., M. Phil, (Ph.D.)	Assistant Professor	Computer Science	9 Yrs	11
Mr. Anup .J. Johnson	M.Sc., M. Phil.	Assistant Professor	Software Engineering	8 Yrs	09
Mr. P.V. Samuel Blessed Nayagam	M.Sc., M. Phil.	Assistant Professor	Software Engineering	8 Yrs	-
Mr. C.V. Muthu Priya	M. Sc, M.Phil.	Assistant Professor	Software Engineering	7 Yrs	-

Faculty Associated with Mechanical Engineering Department

Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D./ M.Phil. students guided for the last 4 years**
Ms. J.E. Anusha Linda Kostaka	B.E	Assistant Professor	Computer Science and Engineering	14 Yrs	-

Faculty Associated with Civil Engineering Department

Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**No. of Ph.D./ M.Phil. students guided for the last 4 years**
Mr. V.G. Ranjith	M. Sc(CS)., M.Tech.	Assistant Professor	Information Technology	13 yrs	-

Faculty Associated with Computer Applications Department

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Ms. M. Merlin Johnsy	M.C.A., M. Phil	Assistant Professor	Computer Applications	10 Yrs	10
Ms. V. Alan Gowri Phivin	M.C.A., M. Phil, (Ph.D.)	Assistant Professor	Computer Applications	10 Yrs	9

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information

Nil

14. Programme-wise Student Teacher Ratio

Name of the Programme	Student Teacher Ratio
M.Sc Software Engineering	15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled	Actual
Technical Staff	**02**	**02**	**02**
Office Attenders	**01**	**01**	**01**

16. Research thrust areas as recognized by major funding agencies

- Image Processing
- Network Security
- Data Mining
- Cloud Computing

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration - Nil b) International collaboration Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- state recognition Nil
- national recognition Nil
- international recognition Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. Publications:

- **Number of papers published in peer reviewed journals (national / international)**
- **Monographs** **:** Nil
- **Chapters in Books** **:** Nil
- **Edited Books** **:** Nil
- **Books with ISBN with details of publishers** **:** Nil
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index** **:** Nil
- **SNIP** **:** Nil
- **SJR** : Nil
- **Impact Factor** **:** Nil
- **h-index** **:**Nil

Sl. No	Authors	Paper title	Journal Name	Volume	Issue No	Year	pages
1.	Dr. S. Venkateswari	A Structured Approach for Finding Frequent Itemset in E-Commerce Data	International Journal of Computational Intelligence Research	Volume 7	No. 1	2011	35-40
		Frequent Itemset discovery in E-Commerce Domain: A Novel Approach	International Journal on Computer Science and Engineering	volume 3	Issue I	2011	91 – 96
		Association Rule Mining in E-	International Journal of Engineering	Volume	No.	2011	3086 -

		Commerce : A Survey	Science and Technology	3	4		3089
2.	Ms. J. E. Anusha Linda Kostka	WISP: Computational Feasibility of UHF RFID tag using RC5 Algorithm	Journal of Computer Science and Applications	Volume 3	No. 2	2011	85-89
3.	Mr. J. P. Jayan	A Cost effective load balancing scheme for better resource utilization in Cloud Computing	Journal of Emerging Technology in web Intelligence **(SCOPUS INDEXED)**	Volume 6	No. 3	2014	280 – 290
4.	Ms.S.Jerine	Cryptography based authentication method to detect DOS attack in Clustered WSN	International Journal of Applied Engineering and Research(IJAER), Research India Publications **(SCOPUS INDEXED)**	10	No. 70	2015	118 - 124

23. Details of patents and income generated - Nil

24. Areas of consultancy and income generated - Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Sl.No	Name of the Faculty	Name of the Lab Visited	Date
1.	Mr.J.P.Jayan	Infosys, Kazhakkuttam, Trivandrum	26th March 2015
2.	Mr.J.P.Jayan	TCS, Siruseri, Chennai	17th December 2015

26. Faculty serving in

a) **National committees b) International committees c) Editorial Boards d) any other (please specify)**

Sl.No	Name of the faculty	Committee
1.	Mr. J.P. Jayan	Technical Session Chair, ICCICCT,2014
2.	Mr.J.P.Jayan	Co-Chair, ICBDM,2014
3.	Mr.V.G.Ranjith	Member, IET

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculty members of this department are encouraged to attend orientation programmes, workshops and training programs at the end of each semester.

Sl. No	Staff Name	orientation programs, workshops, training programs	Topic	Venue	Date
1	Mr. J. P. Jayan	FDP	OOPs and C++	PET Engineering College	13 – 15 June 2011
		Workshop	Infosys Foundation Program	NICHE	7 June 2011
		Workshop	Aakash Tablet IIT Bombay	NICHE	10 – 11 November 2012
		Workshop	BIG DATA	NICHE	29 August 2013
		Workshop	Cyber Security	NICHE	31 March 2015
2	Ms. J.E. Anusha Linta Kostka	Workshop	Oracle Database 11g- release 2	NICHE	7 June 2011
		Workshop	Infosys Foundation Program	Oracle University	20 August 2011
		Workshop	Datamining	CSE, NICHE	24th March 2014
3	Mr. V.G. Ranjith	Workshop	Infosys Foundation Program	NICHE	7 June 2011
4	Dr. S. Venkateswari	Workshop	Infosys Foundation Program	NICHE	7 June 2011
		Workshop	Network Simulator	RMD Engineering College	17 November 2011
		National Workshop	MATLAB	RMD Engineering College	19 November 2011
		Workshop	Research	NICHE	21

			Proposal Writing		August 2012
		Workshop	Aakash Tablet IIT Bombay	NICHE	10 – 11 November 2012
5	Ms. C.R. Sheela Kumari	National Seminar	Influence of Personality in Education Process	St. Stephen College of Education, Kollemcode	11 March 2011
		FDP	Faculty Enablement Program	INFOSYS,MANGALORE	15-19 December 2014
6	Ms. S. Jerine	Workshop	Infosys Foundation Program	NICHE	7 June 2011
		Workshop	Cloud Computing	IT, NICHE	28 & 29 March 2014
7	Ms. Melbin J. Reena	Workshop	Infosys Foundation Program	NICHE	7 June 2011
		FDP	Certificate in Java Programming	Marthandam College of Engg, Marthandam	10th to 17th December 2011
		Workshop	Data Mining	CSE, NICHE	24th March 2014
		Workshop	Mentoring the Student	HRM, NICHE	17 to 20 September 2014
8	Ms. M. Merlin Johnsy	FDP	OOPs and C++	PET Engineering College	13 – 15 June 2011
		Workshop	Infosys Foundation Program	NICHE	7 June 2011
9	Ms. V. Allan Gowri Phivin	National Seminar	Influence of Personality in Education Process	St. Stephen College of Education, Kollemcode	11 March 2011
		Workshop	Infosys Foundation Program	NICHE	7 June 2011
		Workshop	Research Proposal Writing	NICHE	21 August 2012
		Workshop	Aakash Tablet IIT Bombay	NICHE	10 – 11 Novemb

					er 2012
		Workshop	Datamining	CSE, NICHE	24th March 2014
		FDP	Android	St. Xavier Catholic college of Engineering	6th to 10th July 2015
10	Ms. R.I. Heaven Rose	National Seminar	Influence of Personality in Education Process	St. Stephen College of Education, Kollemcode	11 March 2011
		Workshop	Research Proposal Writing	NICHE	21 August 2012
		Workshop	Aakash Tablet IIT Bombay	NICHE	10 – 11 November 2012
		Workshop	Datamining	CSE, NICHE	24th March 2014
11	Mr. P.V. Samuel Blessed Nayagam	Workshop	Infosys Foundation Program	NICHE	7 June 2011
		FDP	Data Structures using C	Vickram College of Engineering	10,11 & 12 June 2011

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**

Programme	Batch	No. of Students	%
M.Sc. SE	2011	05	100
M.Sc. SE	2012	25	100
M.Sc. SE	2012	19	Persuing
M.Sc. SE	2012	19	Persuing

- **percentage of students doing projects in collaboration with other universities / industry / institute**

Programme	Batch	No. of Students	%
M. Phil. CS	2012	20	100
M. Phil. CS	2013	67	100
M. Phil. CS	2014	48	100

29. Awards / recognitions received at the national and international level by

- Faculty - Nil
- Doctoral / post doctoral fellows - Nil
- Students - Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any

Name of the Seminar / Symposium / Workshop / Conference	Venue &Date	Source of funds
ENCRYSIA-10	NICHE, Kumarakoil, March 2010	SEBEX – Association
ESPERANA-11	NICHE, Kumarakoil, Sep 2011	SEBEX – Association
EBULLIANCE-12	NICHE, Kumarakoil, October 2012	SEBEX – Association
ELANCIA-15	NICHE, Kumarakoil, March 2015	SEBEX – Association

31. Code of ethics for research followed by the departments

M.Phil Dissertation work shall be carried out by a student under the guidance of a faculty. It is mandatory that a Student should submit the document of the completed work in the mid-semester and presentation before the project course committee during the semester in which the M.Phil Dissertation work is undertaken. The student should demonstrate that he/she has acquired both analytical and practical skills in the field specialization. Plagiarism is strictly viewed and students are instructed to submit original work only. The student should submit the M.Phil Dissertation report at the end of the semester.

Regarding Ph.D, scholars should follow the university regulations for Research.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)		Application received	Selected		Pass Percentage	
			Male	Female	Male	Female
M.Sc. SE	2011-12	17	05	02	Persuing	
M.Sc. SE	2012-13	60	20	06	Persuing	
M.Sc. SE	2013-14	45	16	04	Persuing	
M.Sc. SE	2014-15	45	15	05	Persuing	

Name of the Programme (refer to question no. 4)		Application received	Selected		Pass Percentage	
			Male	Female	Male	Female
M. Phil CS	2012-13	38	00	20	-	100
M. Phil CS	2013-14	130	03	65	100	98
M. Phil CS	2014-15	101	03	45	100	93

33. Diversity of students

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
M.Phil Computer Science(2012 Batch)	Nil	100	Nil	Nil
M.Phil Computer Science(2013 Batch)	Nil	100	Nil	Nil
M.Phil Computer Science(2014 Batch)	Nil	100	Nil	Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Nil

35. Student progression

Student Progression in 2014 batch

Student Progression	**Percentage against enrolled**				
	2009-10	**2010 – 11**	**2011-12**	**2012- 13**	**2013- 14**
UG to PG	NA	NA	NA	NA	NA
PG to M.Phil	First Batch M.Sc in Fourth Year only				
PG to Ph.D	Nil	Nil	01	02	Nil
Ph.D. to Post Doctorate	NIL	NIL	NIL	NIL	NIL
Employed	NA	NA	01	06	05
Campus selection	Nil	Nil	Nil	Nil	Nil
Other than campus recruitment	NA	NA	01	06	05
Entrepreneurs	NIL	NIL	NIL	NIL	NIL

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	**Nil**
from other universities within the State	100
from universities from other States	Nil
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Name of the faculty	**Degree Awarded**	**Month and Year**
S.Venkatswari	Ph.D	July, 2013

38. Present details of departmental infrastructural facilities with regard to

a) Library

Sl.No	**Name of the Resources**	**Number of Resources**
1.	No of Books	674
2.	M. Phil Thesis	97
3.	Question Paper Set	04
4.	Department Magazine	02

b) Internet facilities for staff and students

Sl.No	**Name of the Resources**	**Number of Resources**
1.	Computers	72
2.	Speaker	2 Sets
3.	OHP	2
4.	16 port Ethernet HUB	5
5.	8 Port Switch	1
6.	5 KV UPS	5
7.	Battery	25
8.	LCD Projector	01

c) **Total number of class rooms** - 06
d) **Class rooms with ICT facility** - Nil
e) **Students' laboratories** - 02
f) **Research laboratories** - Nil

39. List of doctoral, post-doctoral students and Research Associates

a) Faculty pursuing Ph.D from the host institution/university

S.No	Name of the Faculty	University	Programme
1	Prof J. Charles	N.I University	Ph.D.
2	Ms. S. Jerine	N.I University	Ph.D.
3	Ms. Alan Gowri Phivin	N.I University	Ph.D.
4	Ms. R. I. Heaven Rose	N.I University	Ph.D.

b) from other institutions/universities

S.No	Name of the Faculty	University	Programme
1	Ms. J. Maha Lekshmi	N.I University	Ph.D.

c) **Faculty who are pursuing Ph.D from other University**

S.No	Name of the Faculty	University	Programme
1	Mr.J.P.Jayan	Bharathiar University, Coimbatore	Ph.D

d) Faculty who completed Ph.D from other University

S.No	**Name of the Faculty**	**University**	**Month and Awarded Year**	**Programme**
1	Dr.S.Venkateswari	Mother Teresa Women's University, Kodaikanal	July 2013	Ph.D

40. Number of post graduate students getting financial assistance from the university.

Sl.No	**Name**	**Branch and Batch**
1.	P.Kavitha	M.Sc. Software Engineering 2012-2017 Batch
2.	S.Aswin	M.Sc. Software Engineering 2011-2016 Batch

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Conducted Board of Studies and curriculum is framed on current trends.

42. Does the department obtain feedback from

a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback**?

Yes, feedback is analyzed and suggestions are given to change the teaching process

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, staff are instructed to improve based on feedback. Curriculam is analyzed and discussed in BOS based on feedback.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes, the feedback collected from alumini and employers is reviewed and the same will be used for curriculum revision. (M. Phil Alumini)M.Sc. First batch in 4th year only.

43. List the distinguished alumni of the department (maximum 10)

Sl.No	Name of the distinguished Alumni	Designation
1.	B.Asha	Systems Engineer, TCS, Chennai
2	S.Mary Daisy	Assistant professor, St.Jerome's College, Nagercoil.
3.	C. Jayanthi	Techician CTIS, ISRO, Mahendragiri
4.	Irshad	Software Engineer, RR Donnelly, Chennai
5.	A.P.Asha	Assistant Professor, The Raja's Arts and Science College, Vadakankulam.
6.	Deva Mahil	Assistant Manager, Dena Bank, Tirunelveli.
7.	Sreenath	Assistant Manager, Karur Vysya Bank, Theni
8.	T. Akila Victor	Assistant Professor, VIT, Vellore
9.	N. Titus Davidson	Team Leader, Shriram Value Services, Chennai
10.	N. Anand Krishna	HCL Technologies, Chennai

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S.No	Program	Date	External Experts	Areof Specialization
1.	Big Data Power and Challenges	20/04/2015	Prof. S. Ruban Co-ordinator, M.Sc. Software Tech Dept., St. Aloysius College, Manglore.	Big Data
2	Bank Exam Coaching Class	02/03/2015	Mr. M.E. Seinul Abdeen, C/o Indian Institute of banking, Court road, Nagercoil	Aptitude and logical skills
3	Video Image processing	10/11/2014	Mr. Santosh, and Mr. David Manasoft Tech, Kanyakumari.	Image Processing
4	Mobile Application development	12/07/2013	Mr. Hari, Ms.G.Rasmi Education and Research, Infosys, Trivandrum	Android
5	Guest Lecture	05/08/2012	Mr.E.Johan, Team Leader	Data Warehousing

			HCL InfoSystems Pvt Ltd, Chennai	and Mining.
6.	Guest Lecture	21/11/2011	Mr.L.Raju Software Engineer, Innovmax Technologies, Chennai	Programming

45. List the teaching methods adopted by the faculty for different programmes.

1. Power Point
2. Over Head Projector
3. Guest Lecture
4. Industrial Visit

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Programme objectives are met by improving teaching methodology and providing suitable training to students

47. Highlight the participation of students and faculty in extension activities.

Sl.No	Name	Responsibilities
1.	Prof. J. Charles	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.
		Question Paper Setting – Annamalai University, Chidambaram.
2.	Mr. J.P.Jayan	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.
		Question Paper Setting – K.S.R College of technology, Autonomous, Thiruchencode
3.	Mr. V.G.Ranjith	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.
		Question Paper Setting – K.S.R College of technology, Autonomous, Thiruchencode
		Life Time Member – Indian Society for Technical Education, New Delhi
4.	Dr. S.Venkateswari	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.
		Question Paper Setting – K.S.R College of technology, Autonomous, Thiruchencode
		M.Phil Guide – M.S.University

		M.Phil Guide –Periyar University
		M.Phil Guide – Bharathiar University
5.	S.Jerine	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.
6.	Melbin.J.Reena	Question Paper Setting – Dr.M.G.R.University, Maduravoyal.

48. Give details of "beyond syllabus scholarly activities" of the department.

- Training in IBM-DB2, IBM RAD, IBM RFT is provided to students and staff.
- Training in mobile application development is provided to students and staff.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. - Nil

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Experienced and qualified faculty members
- Dedicated nature of faculty
- Industrial exposure to students
- Effective teaching learning methodology
- Lively and interactive lectures

Weaknesses:

- No Research Lab
- Yet to conduct International/IEEE conferences.
- Lab systems need upgradation.

Opportunities

- Training in IBM RAD, RFT, DB2 is provided to students.
- Aptitude and reasoning classes are conducted
- Soft skill training is provided.
- Foreign languages are taught.
- Training in software skill is provided.

Challenges

- Training students to the industrial need.
- Curriculam updation based on current trend.
- Refresher course for faculty.
- Bridging students of various backgrounds
- Sponsored research projects.

52. Future plans of the department.

(a) To improve and modernize Department Library.

(b) To start Departmental Research Journal.

(c) Improving the Infrastructure of the department.
(d) To impart research.
(e) To establish research and simulation lab to support research activities.
(f) To conduct Faculty Development Programme (FDP), International Conference and to publish department newsletter bi-annually.
(g) To generate funds from the UGC and DST and improve the in house research work and the consultancy research work.
(h) To encourage faculty to publish in academic journals, to promote participation in consultancy work.

Department Evaluative Report

Department of Physics



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Physics

Evaluative Report

1. **Name of the Department :** Physics

2. **Year of establishment :** 1989

3. **Is the Department part of a School/Faculty of the university?**
   Yes, the Department of Physics is part of Faculty of Science and Humanities

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**
   (i) M.Sc. Physics
   (ii) M.Phil. Physics
   (iii) Ph.D. Physics

5. **Interdisciplinary programmes and departments involved :**

S. No	Course code	Course Name	Programme	Department offering the course
1	NT1201	Basic Quantum Mechanics	S3-B.Tech	Nano Technology
2	NT1501	Concepts of Classical statistical and Quantum Mechanics	S1-M.Tech	Nano Technology
3	NT216	Molecular Electronics	S4- B.Tech	Nano Technology
4	PH1713	Basic Biophysics	S2-M.Sc Chemistry	Physics
5	PH1714	Renewable Energy	S3-M.Sc Chemistry	Physics

6. **Courses in collaboration with other universities, industries, foreign institutions, etc :** Nil

7. **Details of programmes discontinued, if any, with reasons:** Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
   Choice Based Credit System and Semester System

9. **Participation of the department in the courses offered by other departments:**
   Yes, the Department engages in teaching supportive papers at Department of Chemistry and Department of Nanotechnology. All branches of Engineering courses (Engineering Physics)

S. No	Course code	Course Name	Programme	Department offering the course
1	CH 1708	Chemistry in industry	M.Sc., Physics	Chemistry
2	CH1711	Chemistry in Environment	M.Sc., Physics	Chemistry

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :

Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	
Associate Professors	1	1	
Asst. Professors	5	5	
Others	-	-	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. B. Bindhu	M.Sc., M.Phil., Ph.D	Associate Professor & Head of the department	Biomineralization, Material science	10	M.Phil.: 5
Mrs. C. Sagi Rani	M.Sc., M.Phil.	Assistant Professor	Material science	7	M.Phil.: 3
Ms. R. Geetha Kumari	M.Sc., M.Phil.	Assistant Professor	Spectroscopy	6	-
Mrs. N.Y. Sugirtha Suni	M.Sc., M.Phil.	Assistant Professor	Material science	5	-
Dr. V. N. Meena devi	M.Sc., Ph.D	Assistant Professor	Bioenergy	9	M.Phil.: 3

Dr. R. Ganapathi Raman	M.Sc., M.Phil., Ph.D	Assistant Professor	Nano DFT, Material science	4 ½	M.Phil.-4 Ph.D- 1

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil

13. Percentage of classes taken by temporary faculty – programme-wise information :5 % of classes are taken by research scholar

14. Programme-wise Student Teacher Ratio :

Name of the Programme	Student Teacher Ratio
M.Sc. Physics	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :2

Number of Academic support staff	**Sanctioned**	**Filled**	**Actual**
Supportive staff - 2	2	2	2
Peon - 1	1	1	1

16. Research thrust areas as recognized by major funding agencies :

- Biomineralization
- Material science
- Bioenergy
- Biosorption
- Nano DFT
- Material science

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

20. Research facility / centre with

- state recognition
- national recognition
- international recognition

Research instruments

1. Electronic balance
2. pH meter
3. Muffle furnace
4. Constant temperature bath
5. Distilled water plant
6. Hot plates
7. Magnetic stirrers

21. Special research laboratories sponsored by / created by industry or corporate bodies

Research Laboratory sponsored NICHE

22. Publications:

- Number of papers published in peer reviewed journals(National/International) : 48
- Monographs : Nil
- Chapters in Books : Nil
- Edited Books : Nil
- Books with ISBN with details of publishers

Books Published:				
Title of the Book	**Names of theCo-authors, if any**	**Name of the Publisher**	**ISBN No.**	**Year of Publication**
Engineering Physics - II	Dr.B.Bindhu., P.Libin Raj ., R.Geetha Kumari., N.Y.Sugirtha Suni.,	R.K Publications	**978-93-84295-11-0**	**2015**
Engineering Physics - II	Dr.B.Bindhu., P.Libin Raj ., R.Geetha Kumari., N.Y.Sugirtha Suni., Dr.T.Suthan	Anuradha Publications	**978-81-8472-197-3**	**2014**
Engineering Physics - I	Dr.B.Bindhu., C.Sagi Rani., Dr.V.N.Meena Devi., Dr.R.Ganapathi Raman	R.K Publications	**978-81-8472-179-9**	2014

Engineering Physics II	B.Bindhu., P. Libin R.Raj	Anuradha Publications	**978-81-8472-197-3**	2012
Engineering Physics	B. Bindhu., Andrew M. Appaji	Anuradha Publications	**978-81-8472-179-9**	2011

Sl.No	**Year**	**International Database (*SCOPUS, Web of Science, EBSCO*)**	**SNIP/ SJR**	**Impact Factor *(Thomson Reuters)***	**Journal h-index**
1.	2009	-	-	-	-
2.	2010	3	1.47	1.17	145
3.	2011	6	2.04	6.477	166
4.	2012	11	1.93	10.168	162
5.	2013	8	1.15	4.544	88
6.	2014	5	1.29	3.327	124

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in :

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

c) Editorial Boards

1.	Dr.V.N. Meena Devi	• American Journal of Physics and Application • International Journal of Applied Physics (IJAP) • International Journal of Oil, Gas and Coal Engineering, Science PG Journal • Journal of Chemistry, Science PG Journal
2.	Dr.R. Ganapathi Raman	International Journal of Current Research in Chemistry and Pharmaceutical Sciences ISSN : 2348 – 5213 (print); ISSN : 2348-5221 (online)
		International Journal of Advanced Research in Biological Sciences (ISSN:2348-8069)
		Elixir International Journal (ISSN: 2229 -712X)

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)

All the faculty members participated in several recharging strategies namely refresher course, workshops, orientation programs and training programs to update their knowledge in the thrust areas of Physics.

Sl. No	Name of the staff	Name of workshop/training programmes/ Refresher course	Duration / Date	Venue
1	**Dr. B. Bindhu**	Workshop on Research Methodology & Statistical Package	16 – 18 September 2010	Noorul Islam University
2		Workshop on LaTeX	Noorul Islam University , 15 & 16 December, 2010	Noorul Islam University
3		National workshop on Nanotechnology and its Biomedical applications	4th November , 2011	St. John's College
4		Workshop on Advanced Materials Characterization Techniques, organized by **National Physical Laboratory**	New Delhi, 10-13 July 2012	National Physical Laboratory
5		2nd National Workshop on Characterization Techniques (NWCT-2), 2013	21st -23rd March 2013	Alagappa University, Karaikudi
6		86th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes.	February 10-15, 2014	Noorul Islam College of Arts and Science, Kumaracoil
7		Workshop on Tune & Prune Your Research- Material	21-22 August 2014	Sree Chitra Tirunal Institute for

		Characterization Techniques		Medical Sciences & Technology, Trivandrum
8		Training in Counselling /Mentoring the students- 2014	4 days (17.9.2014-20.9.2014)	Noorul Islam University, Kumaracoil
9		Faculty Orientation Programme	3 days (9.6.2015-11.6.2015)	Noorul Islam University, Kumaracoil
10		ISTE-STTP on Engineering Physics	One week (7.9.2015-11.9.2015)	IIT Bombay
11	Mrs.C.Sagi Rani	Faculty development programme	4-13th Jan 2010	Noorul Islam University, Kumaracoil
12		National workshop on Nanotechnology and its Biomedical applications	4th November , 2011	St. John's College
13		2nd National Workshop on Characterization Techniques (NWCT-2), 2013	21st -23rd March 2013	Alagappa University, Karaikudi
14		86th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes.	February 10-15, 2014	Noorul Islam College of Arts and Science, Kumaracoil
15	Ms. R. Geetha Kumari	Faculty development programme	4-13th Jan 2010	Noorul Islam University, Kumaracoil
16		86th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes.	February 10-15, 2014	Noorul Islam College of Arts and Science, Kumaracoil

17	Mrs. N.Y. Sugirtha Suni	Faculty development programme	4-13th Jan 2010	Noorul Islam University, Kumaracoil
18	Dr. V.N. Meena devi	Faculty development programme	4-13th Jan 2010	Noorul Islam University, Kumaracoil
19		Refresher course on condensed matter physics	28th Feb to 13th Mar 2011.	St.Thomas College, Kottayam,
20		Refresher course on Experimental Physics	6th -21st Mar 2012	IASc Bangalore
21		86th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes.	February 10-15, 2014	Noorul Islam College of Arts and Science, Kumaracoil
22	Dr. R. Ganapathi Raman	Orientation programme	18th Oct 2011	Noorul Islam University, Kumaracoil

28. Student projects :

In-house projects

S.No	Year	Course	No. Of Students	Project	Percentage
1	2014-2015	M.Sc	07	Project	100
		M.Phil	07	Project	100
2	2013-2014	M.Phil	02	Project	100
3	2012-2013	M.Phil	13	Project	100

29. Awards / recognitions received at the national and international level by
Faculty :

1. Dr. T. Suthan received the Best Paper Award in the "National Seminar on Recent Trends in Physics" held at Shivani Engineering College, Thiruchirapalli – 620009, during March 18-19, 2011.

2. Dr. T. Suthan received the DST Travel Fellowship (2012) to visit Singapore and to present the research paper in International Conference.

- **Doctoral / post doctoral fellows :Nil**
- **Students**

  Mr. Joe Dixen (M.Phil. 2014-2015) received the Best Paper Award in the "UGC sponsored National Conference on Emerging Trends in Applied Physics (NCETAP-2015) organized by Department of Physics, Lekshmipuram College of Arts and Science, 19th & 20th February 2015.

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any :

(i) Conference organized : 1, National Conference on Physics of New Materials organized by the Department of Physics, Noorul Islam University during 20th and 21st April 2012.

(ii) One Day Seminar on Advances in Physics – 2015(SAP-2015)

31. Code of ethics for research followed by the departments :

UGC regulations on minimum standard and procedure for the award of M.Phil/Ph.D. degree – 2009 are followed.

- Plagiarism should be avoided
- Original work should be carried out

32. Student profile programme-wise:

Name of the Program	Academic year	Applications received	Selected		Pass percentage
			Male	Female	
Ph.D	2009-2010	5	1	1	40 %
	2010-2011	12	-	-	0 %
	2011-2012	11	-	3	27 %
	2012-2013	10	-	1	90 %
	2013-2014	9	-	3	66 %
	2014-2015	9	1	1	77%
	2015-2016	15	2	2	26.6 %
M.Phil	2012-2013	25	-	13	92.8 %
	2013-2014	4	-	2	50 %
	2014-2015	18	2	5	100 %
	2015-2016	4	-	1	100 %
M.Sc	2013-2014	15	1	6	100 %
	2014-2015	13	1	5	100 %
	2015-2016	33	4	12	100 %

33. Diversity of students :

Name of the Programme (refer to question no. 4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
M.Sc. (2013-2014)	-	68.75	31.25	-
M.Sc. (2014-2015)	-	66.666	33.333	-
M.Sc. (2015-2016)	-	68.75	31.25	-
M.Phil. (2012-2013)	-	100	-	-
M.Phil. (2013-2014)	-	100	-	-
M.Phil. (2014-2015)	-	71.4	28.555	-
M.Phil. (2015-2016)	-	100	-	-
Ph.D (2009-10)	-	100	-	-
Ph.D (2010-11)	-	100	-	-
Ph.D (2011-12)	-	66.666	33.333	-
Ph.D (2012-13)	-	100	-	-
Ph.D (2013-14)	-	100	-	-
Ph.D (2014-15)	-	100	-	-
Ph.D (2015-16)	50	50	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : Nil

35. Student progression :

Student progression	Percentage against enrolled
UG to PG	Nil
PG to M.Phil.	Nil
PG to Ph.D.	50
Ph.D. to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	27%
Entrepreneurs	Nil

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	100%
from universities from other States	-
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Sl No	Name of the Faculty	University	Month and Awarded Year	Programme
1.	Dr.V.N. Meena Devi	Manonmaniam Sundaranar university	April 2010	Ph.D.
2	Dr. R. Ganapathi Raman	Annamalai Uiversity	Jan 2011	Ph.D.
3.	Dr. T. Suthan	Anna University	March 2011	Ph.D.

4	Dr. R. V. Suganthi	Anna University	March 2012	Ph.D.
	Dr. B. Bindhu	Manonmaniam Sundaranar university	June 2013	Ph.D.

38. Present details of departmental infrastructural facilities with regard to :

a) Library: The details about the department library is given below.

S.No	Items in Department library	Count
1	Books	552
2	Project Reports	29
3	Ph.D. Thesis	01

b) **Internet facilities for staff and students** : wi-fi connectivity

c) **Total number of class rooms** : 3

d) **Class rooms with ICT facility** : Nil

e) **Students' laboratories** : 1

f) **Research laboratories** :1

Stock Register (Equipments/ Consumables)

A stock register for the purchased equipments from the funds provided by the University every year is maintained in the department. A local stock audit is being made by a team of staff members of the department.

39. List of doctoral, post-doctoral students and Research Associates :

a) from the host institution/university

(i) Details of Ph.D awardees from 2011- 2014

Sl. No.	Candidate name	Guide/ Co-guide	Ph.D awarded year
1.	A. Rathika	Dr. R. Ganapathi Raman	2014

(ii) Details of full time research scholars (2015):

Sl. No.	Candidate name	Reg. No.	Guide/ Co-guide
1	Ajay Praveen	Yet to receive the Reg No.	Dr. R. Ganapathi Raman

(iii) Details of part time research scholars

Sl. No.	Candidate name	Reg. No.	Guide/ Co-guide
1.	Mrs. C. Sagirani	1111920202	Dr.N.Joseph John
2.	Siji Cyriac	0112920203	Dr. M. M. Musthafa/ Dr. R. Ganapathi Raman
3.	Geetha Kumari R	0112920202	Dr. R. V. Suganthi
4.	Jebin R. P	0112920201	Dr. T. Suthan
5.	Sugirtha Suni N Y	01139202001	Dr. R. Ganapathi Raman
6.	Gopika .M.S	0114920201	Dr. B. Bindhu
7.	Shaji Kumar .S	0114920202	Dr. R. Ganapathi Raman
8	Swetha A S	Yet to receive the Reg No.	Dr. B. Bindhu
9	Kalyani Sreekumar	Yet to receive the Reg No.	Dr. B. Bindhu
10	Rajesh	Yet to receive the Reg No.	Dr. R. Ganapathi Raman

b) **from other institutions/universities** : Nil

40. Number of post graduate students getting financial assistance from the university : Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Yes. The head of the department after deliberation with the faculty members on the need for the program, its relevance for teaching and research and job prospects submits the proposal of the new programme to the university authorities for approval. The university forwards the proposal to the expert committee and after receiving their recommendation forms a separate BOS for the proposed program. The syllabus after the remarks of minimum two external experts and the board members is passed in the BOS and the recommendation is finally placed in the academic council for approval.

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, the feedback about the curriculum was discussed in the department meeting. The suggestions will be considered in the board of studies meeting.

b. **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
Yes, the Department gets the feedback from students. The feedbacks on teaching learning evaluation are communicated to the faculty. Regarding the curriculum, feedback will be discussed in the department meeting and the outcome will be brought up in the upcoming Board of Studies meeting.

c. **alumni and employers on the programmes offered and how does the department utilize the feedback?**
Yes, the suggestions on curriculum will be considered in the board of studies.

43. List the distinguished alumni of the department (maximum 10) :

Sl. No	Name of the alumni	Course	Batch	Designation	Institution
1	Theanmozhy. N	M.Phil	2012-2013	Asst. Prof. of Physics	Sivanthi Athithanar College, Nagercoil
2	Kavin Michael M	M.Phil	2012-2013	Asst. Prof. of Physics	Nanjil College of Arts and Science
3	Cynitha Wise	M.Phil	2012-2013	Asst. Prof. of Physics	Rajas College of Engineering
4	Agnes Nithin M	M.Phil	2014-2015	Teacher	Teacher, Adrlin Martic. School, Kandanvilai
5	Joe Dixen R	M.Phil	2014-2015	Teacher	David Martic. School, Chennai
6	Raja Rani S	M.Phil	2014-2015	Asst. Prof. of Physics	Sree Devikumari College of Arts and Science, Kuzhithurai
7	Vijila K M	M.Phil	2014-2015	Asst. Prof. of Physics	Bharath Polytechnic, Chennai
8	Jermal Jesmi J	M.Sc.,	2013-2015	Teacher	St. Antonys Matric School, Thoothoor

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

S.No	Period	Name of (special lectures / workshops / seminar)
1.	20th & 21st .4. 2012	CSIR, BRNS Sponsored National Conference on Physics of New Materials
2.	28.2.2013	NIU Physics Club Inaguration
3.	15.4.2013	Research Colloquium
4.	19.9.2014	Guest lecture on Research methodology
5.	27.2.2015	Guest lecture on Crystal growth, characterization techniques and applications
6.	25.2.2015	One day seminar on advances in Physics

45. List the teaching methods adopted by the faculty for different programmes.

S.No	Programmes Offered	Teaching methods Adopted
1	M.Sc., M.Phil., Ph.D.	Open Source materials
2		Open Source Lectures
3		Power Point presentation
4		CDs
5		Smart Class Rooms

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

By conducting frequent class tests and three series test, the performance was monitored. Project Review was conducted. To create research ambience, research colloquium and seminar was conducted. Class committee meetings are frequently conducted.

47. Highlight the participation of students and faculty in extension activities :

Our faculty members are involved in institutional development by taking additional responsibility as Member- Academic Council, Chairman Board of studies, Member of Board of Studies, Assistant Director Research, NSS programme officers and co-ordinator for M.Sc., and M.Phil. courses. Our faculties frequently conduct National conferences, National seminars. They also served as invited speakers in National conferences, seminars, workshops. We also motivate the students to undertake NET/SLET exams, satellite based projects and encourage the students to participate in summer research programmes. We also motivate the students for Research through lectures. Students

are also active members of NSS programmes.

48. Give details of "beyond syllabus scholarly activities" of the department :

BRNS, CSIR Sponsored" National Conference on Physics of New Materials", (NCPNM-2012) was organized by Department of Physics in Noorul Islam University, Kumaracoil during 20 & 21st April 2012.

"NIU PHYSICS CLUB" was inaugurated by the Department of Physics on 28th Feb 2013.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

- Scientists are invited regularly to deliver lectures on recent developments in physics.
- The department has an active physics club which holds programs and discussions on recent research topics.
- Good publications in peer reviewed journals.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strengths

- Well qualified and dedicated faculty members.
- Adequate infrastructure facilities.
- Well equipped department library.
- Interdepartmental collaborative research

Weaknesses

- Research activities have to be improved.
- Require more infrastructure.
- Consultancy work has to be initiated.

Opportunities

- To start new programmes.
- To conduct refresher courses, conferences, workshops, seminars and faculty development programmes
- Participation in faculty development programmes, workshops, seminars and conferences
- To produce more number of publications in high impact factor journals

Challenges

- Bring in new research projects.

- Collaborate with national and international universities.

52. Future plans of the department :

(i) To initiate collaborative work with other national and international institutions.
(ii) To initiate consultancy work.
(iii) To conduct refresher courses, conferences, workshops, seminars and faculty development programmes
(iv) To introduce creative learning method to improve the knowledge of students. This includes giving mini projects like making models and visual displays of ideas in physics.
(v) Projects are to be submitted to various funding agencies

Department Evaluative Report

Department of Mathematics



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Mathematics
Evaluative Report

1. **Name of the Department :** Mathematics

2. **Year of establishment :** 1989

3. **Is the Department part of a School/Faculty of the university?**
   Yes. Faculty of Science and Humanities

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

Name of the Programme	Remarks
M. Sc. Mathematics	Full Time (2 Years)
M. Phil. Mathematics	Full Time (1 Year)
Ph.D. Mathematics	Full Time and Part Time

5. **Interdisciplinary programmes and departments involved :**

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	CS17S1 Office Automation	I	Software Engineering
2.	CS1771 Computer Fundamentals And C Programming Lab	II	Software Engineering

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
   Nil

7. **Details of programmes discontinued, if any, with reasons :**
   Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester - Choice Based Credit System

9. **Participation of the department in the courses offered by other departments :**
   B.E /B.Tech programme:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1101 Engineering Mathematics I	I	All Departments except Marine Engineering
2.	MA1102 Engineering Mathematics II	II	All Departments except Marine Engineering
3.	MA1201 Engineering	II	All Departments except Marine ,

	Mathematics III		Biomedical Engineering and Nanotechnology.
4.	MA1202 Numerical methods & Transforms	II	Bio Medical Engineering and Nano Technology
5.	MA1203 Numerical Methods	II	Aeronautical Engineering , Aerospace Engineering, Civil Engineering, Electrical and Electronics Engineering & Electrical and Instrumentation Engineering
		III	Electronics and Communications Engineering
6.	MA1204 Statistical and Numerical Methods	II	Mechanical Engineering , Automobile Engineering & Information Technology
7.	MA1205 Probability& Queuing Theory	II	Computer Science and Engineering
8.	MA1206 Random Processes	II	Bio Medical Engineering and Nano Technology
9.	MA1207 Discrete Mathematics	III	Computer Science and Engineering
10.	MA1208 Random Processes and Queuing Theory	II	Electronics and Communications Engineering

B.B.A programme:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1601 Business Mathematics	I	Management Studies
2.	MA1602 Business Statistics	I	Management Studies

M.E/ M.Tech programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1501 Advanced Mathematics	I	Electronics and Communications Engineering, Electrical and Electronics Engineering ,Electrical and Instrumentation Engineering Bio Medical Engineering and Nano

			Technology
2.	MA1503 Applied Mathematics	I	Aeronautical Engineering , Automobile Engineering & Mechanical Engineering
3.	MA1502 Advanced Mathematics for Structural Engineering	I	Civil Engineering
4.	MA1508 Mathematical Foundations of Cyber Security	I	Information Technology
5.	MA1505 Operations Research	I	Computer Science and Engineering
		II	Computer Applications

MBA programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1506 Quantitative Techniques	I	Management Studies
2.	MA1507 Operations Research for Management	I	Management Studies

MCA programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA1504 Discrete Structures	I	Computer Applications

M.Sc. Software Engineering programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MA801 Mathematical Techniques I	I	Software Engineering
2.	MA802 Numerical Techniques	I	Software Engineering
3.	MA803 Mathematical Techniques II	II	Software Engineering
4.	MA804 Discrete Mathematical Structures	II	Software Engineering
5.	MA805 Optimization Techniques	II	Software Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors / Asst. Professors/others) :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	03	03	03
Associate Professors	0	0	0
Asst. Professors	3	3	3
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
1	Dr.S.Ramachandran	M.Sc., Ph.D.	Prof.	Graph Theory	41y 4m	03
2	Dr.M.Immaculate Mary	M.Sc., M.Phil, B.Ed, Ph.D.	Prof. & HOD	Stochastic processes	21y 11m	03
3	Dr.P.B.Sarasija	M.Sc., Ph.D.	Prof.	Graph Theory	20y 9m	06
4	Dr.T.M.Selvarajan	M.Sc., M.Phil, B.Ed, Ph.D.	Asst. Prof.	Graph Theory	21y 10m	04
5	Mr.S.Kumaresan	M.Sc., M.Phil. *Ph.D*	Asst. Prof.	Operations Research	23y 4m	01

Faculty associated with the Department of Computer Applications

6	Dr.K.Uma Samundesvari	M.Sc., M.Phil., PGDCA, Ph.D.	Asst. Prof.	Graph Theory	16y 8m	02
7	Dr.R.Binthiya	M.Sc., M.Phil, Ph.D.	Asst. Prof.	Graph Theory	8y4m	02

Faculty associated with the Department of Bio Medical Engineering

8	Dr.P.Nageswari	M.Sc., M.Phil, PGDCA , Ph.D.	Asst. Prof.	Graph Theory	12y 2m	01

Faculty associated with the Department of Mechanical Engineering

9	Dr.K.Uma Devi	M.Sc.,B.Ed., M.Phil,HDCA, Ph.D.	Asst. Prof.	Fuzzy Algebra	7y 7m	01

Faculty associated with the Department of Civil Engineering

10	Mrs.D.Sheeba Singh	M.Sc., M.Phil, Ph.D	Asst. Prof	Graph Theory	6y 5m	01

Faculty associated with the Department of Nano Technology

11	Mrs. M.Sudha	M.Sc., M.Phil., B.Ed., Ph.D	Asst. Prof.	Graph Theory	7y	01

Faculty associated with the Department of Aerospace Engineering

12	Mr.G.Victor Jeya Chandra	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Applied Mathematics	7y 9m	

Faculty associated with the Department of Automobile Engineering

13	Mrs.P.Jeba Sheeja	M.Sc., M.Phil., B.Ed.	Asst. Prof.	Graph Theory	6y 4m	
14	Dr. J.John Arul Singh	M.Sc., M.Phil, Ph.D.	Asst. Prof.	Graph Theory	4y 3m	03

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information :

Nil

14. Programme- wise Student Teacher Ratio :

Sl. No.	Name of the Programme	Student -Teacher ratio
1	M.Sc.	12 : 1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Nil

16. Research thrust areas as recognized by major funding agencies :

Graph Theory

17. Number of faculty with ongoing projects from a)national b)international funding agencies and c)Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Sl.no.	Name of the faculty	Funding agency	Project title	Grants received	Duration
(i)	Dr. S. Ramachandran	DST-Govt of India	"Reconstruction of Graphs and structures"	Rs 12,64,400/	09-05-2007 to 08-05-2010
(ii)	Dr. S. Ramachandran	DST-Govt of India	"Reconstruction Number of Graphs and Digraphs"	Rs 10,15,200/-	22-10-2011 to 22-10-2014
(iii)	Dr. S. Ramachandran	DST-Govt of India	Characterization of Isomorphic graphs, Digraphs and Hyper graphs using vertex proper substructures.	Rs 23,58,000/-	06.06.2015 to 05.06.2018

18. Inter-institutional collaborative projects and associated grants received :-

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Sl.no.	Name of the faculty	Funding agency	Project title	Grants received	Duration
(i)	Dr. S. Ramachandran	DST-Govt of India	"Reconstruction of Graphs and structures"	Rs 12,64,400/	09-05-2007 to 08-05-2010

(ii)	Dr. S. Ramachandran	DST-Govt of India	"Reconstruction Number of Graphs and Digraphs"	Rs 10,15,200/-	22-10-2011 to 22-10-2014

20. Research facility/centre with:

Research centre recognized by Anna University, Chennai since 2006

21. Special Research Laboratories sponsored by / created by Industry or Corporate bodies :

Not Applicable

22. Publications :

- Number of papers published in peer reviewed journals(National/International)
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International Database(For e.g. Web of Science,Scopus,Humanities International Complete,Dare Database-International Social Sciences Directory,EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range /Average
- h-index

The following table provides the details of the publications of faculty members of Mathematics department during the period from 2009 to 2015.

Sl. No	Authors,Title of the paper	Vol.No., Page No. Year	Name of the Journal	Impact factor SNIP / SJR H-index
1	**P.Nageswari, P.B.Sarasija**, "Energy And Its Bounds Of Generalized Star Graphs"	5, 17- 21 2015	International Journal of Mathematics and Soft Computing	-
2	**P.B.Sarasija**, N. Adalin Beatress	5, 23-29	International Journal of	-

	"Even-Odd Harmonious Graphs"	2015	Mathematics and Soft Computing	
3	T.Tharmaraj, **P.B.Sarasija,** " Some square graceful graphs"	5, 119-127 2015	International Journal of Mathematics and Soft Computing	-
4	**M.Sudha**,A.ChandraBabu "K-Even Even Edge Graceful Labeling and Some Complementary Graceful Labeling	4, 1319-1322 2015	International Journal of Science and Research (IJSR)	impact factor 4.438
5	**T.M.Selvaraj**, S.Pramila "Fuzzy submodules"	9, 147-155 2015	International Journal of Mathematical Science and Applications	-
6	**S.Ramachandran**,P.Bhanu mathy "Reconstruction of Pseudographs"	93, 117-128 2014	Utilitas Mathematica	Impact factor 0.236 H index 20 SJR 0.35
7	**D.SheebaSingh,M.Immaculate Mary** "Bayesian Inference for Bernoulli Distribution Using Different Loss functions"	4, 31-36 2014	Indian Journal of Applied Research	Impact factor of IJSR is3.624 1
8	**D.Sheeba Singh, ,M.Immaculate Mary**& S. Saranya "Kriging approach for an epidemic data analysis"	2, 530-536 2014	International journal of Scientific & Innovative Mathematical Research	-
9	**R.Binthiya**, **P.B.Sarasija** "A note on Strongly Quotient Graphswith Harary Energy and Harary Estrada index"	14, 97-106 2014	Applied Mathematics E - Notes,	SJR 0.29 H-index 13
10	**R.Binthiya**,**P.B.Sarasija** "A note on Laplacian energy and Laplacianestrada index of Strongly quotient graphs"	93, 119-131. 2014	Far East Journal of Mathe-matical Sciences,	SNIP 0.399 SJR 0.196

11	**R.Binthiya**,**P.B.Sarasija** "On the signlessLaplacian energy and signlessLaplacian Estrada ndex of extremal graphs"	8, 193-198 2014	Applied Mathematical Sciences	SNIP 0.853 SJR 0.335 H-index 21
12	**R.Binthiya, P.B.Sarasija** "Some new even harmonious graphs	4. 105-111 2014	International Journal of Mathematics and Soft Computing	-
13	**P.Nageswari,P.B.Sarasija** "Seidel Energy and its Bounds"	8, 2869-287 2014	International Journal of Mathematical Analysis	SNIP 0.566 SJR 0.228 H-index 12
14	**P.Nageswari,P.B.Sarasija** "Edge energy bounds of graphs"	8, 2101-2104 2014	Applied Mathematical Science	SNIP 0.853 SJR 0.335 H-index 21
15	T.Tharmaraj, **P.B.Sarasija**, "Square graceful graph"	4, 129-137 2014	International Journal of Mathematics and Soft Computing	-
16	T.Tharmaraj, **P.B.Sarasija,** "Adjacent edge graceful graphs"	6, 25-35. 2014	Annals of Pure and Applied Mathematics	Impact factor 1.0285 by(UIF)
17	T.Tharmaraj, **P.B.Sarasija**, Square difference Labeling for Some Union Graphs	11, 81-88. 2014	International Journal of Mathematics Trends and Technology	Impact factor 1.469
18	T.Tharmaraj**, P.B.Sarasija**, On e-labeling of Graphs	2, 592-602. ,2014	Inter. Journal of Scientific and InnovactiveMathematical Research	-
19	T.Tharmaraj**, P.B.Sarasija,** A few e-labeling Graphs	2, 649-655 2014	Inter. Journal of Scientific andInnovactiveMathematical	-

			Research	
20	T.Tharmaraj**, P.B.Sarasija,** Analytic Mean Graphs	8, 595-609 2014	Int. Journal. of Math.Analysis	SNIP 0.566 SJR 0.228 H-index 12
21	T.Tharmaraj**, P.B.Sarasija,** Analytic Mean Labelled Graphs	5, 136-146 2014	Inter. Journal of Mathematical Archive	-
22	T.Tharmaraj, **P.B.Sarasija**, Super Beta CombinationLabeling and its Applications	8, 3551 – 3559 2014	Applied Mathematical Sciences	SNIP 0.853 SJR 0.335 H-index 21
23	T.Tharmaraj**, P.B.Sarasija**, "Some Adjacent edge graceful graphs"	6, 160.169 2014	Annals of Pure and Applied Mathematics	Impact factor 1.0285(by UIF)
24	**S.Ramachandran**,S.Monikandan "Pairs of graphs having n-2 cards in common"	112 213-223 2013	ArsCombinatoria	Impact facor 0.204 SJR 0.31 H-index 24
25	P.Jeyanthi, N.AngelBenseera,& **M.Immaculate Mary** "On Totally Magic Cordial Labeling"	49, 13-18 2013	SUT Journal of Mathematics	SJR 0.15 H-index 11
26	**D.Sheeba Singh, M.Immaculate Mary** "Bayesian Estimate of posterior Risk of TB using different loss function"	2, 86-90 2013	International journal of Scientific Research	Impact factor 3.2416
27	T.Tharmaraj, **P.B.Sarasija,** "Square Difference Labeling For Certain Graphs"	4. 183-186 2013	International Journal of Computer Applications	-

28	T.Tharmaraj **P.B.Sarasija,** "Betacombination Graphs"	76, 1-5 2013	International Journal of Computer Applications	-
29	T.Tharmaraj, **P.B.Sarasija,** "On Beta Combination Labeling Graphs"	79. 26-29 2013	International Journal of Computer Applications	-
30	N. AdalinBeatress, **P.B.Sarasija,** "Arithmetic labeling of path related Graph	3 345-346 2013	International Journal Of Scientific Research	Impact factor of IJSR is3.241 6
31	J.John , **K.UmaSamundesvari** Forcing edge fixing edge-to-vertex Monophonic number of a graph	1350034 (10 pages) 2013	Discrete Mathematics Algorithms and Applications	-
32	**K.Uma Devi,** C.Elango, P.Thagavelu "Anti S-fuzzy subhemirings of a Hemiring"	21, 68-69 2013	International journal of scientific Research	Impact factor of IJSR is3.241 6
33	**K.Uma Devi,** C.Elango, P.Thagavelu "A study on Translations of Anti S-fuzzy subhemirings of a Hemiring"	8, 38-44 2013	IOSR journal of mathematics	
34	**K.Uma Devi,** C.Elango, P.Thagavelu "Anti S-fuzzy normal subhemirings and lower level subsets of a Hemiring"	3, 1143-1152 2013	Journal of Mathematics and computer science	
35	**M.Sudha**, A.ChandraBabu "Odd and Even Gracefulness of Some Classes of Graphs"	110, 464-474 2013	European Journal of Scientific Research	
36	**M.Sudha**, A.ChandraBabu "Even-even gracefulness of some families of graphs"	8, 7-11 2013	IOSR Journal of Mathematics (IOSR-JM	
37	**S.Ramachandran** "Sufficient conditions for the N-reconstructibility of all digraphs "	88 183-188 2012	UtilitasMathematica	Impact factor 0.236 H index

				20 SJR 0.35
38	**P.B.Sarasija, P.Nageswari** "Laplacian Energy of Certain Graphs"	1 78-82 2012	International journal of Mathematical Combinatorics	
39	**P.B.Sarasija**, N. Adalin Beatress "Path Related Arithmetic Graphs"	3 1915-1919 2012	International Journal of Mathematical Archieve	-
40	**P.B.Sarasija** "Steinberg Modules in Quantum groups"	3 1154-1161 2012	International Journal of Mathematical Archieve	-
41	**T.M.Selvaraj**, C.Elango "Notes on (Q,L) Fuzzy subrings of a ring"	6 253-260 2012	International Mathematical Forum	
42	**T.M.Selvaraj**, C.Elango "Some properties of Q-intuitionistic L-Fuzzy Subring"	7 2353-2362 2012	International Journal of Mathematical Sciences and Engineering Applications	
43	**T.M.Selvaraj**, C.Elango "(Q,L) Fuzzy normal subrings of a ring"	6 175-180 2012	International Journal of Mathematical Sciences and Engineering Applications	
44	**T.M.Selvaraj**, C.Elango "Q level subring of Q-intuitionistic L-fuzzy subrings"	2 19-25 2012	Research Journal of Pure Algebra	
45	J.John , **K.UmaSamundesvari** "The edge-to-vertex Monophonic number of a graph"	3 722-728 2012	International Journal of Mathematical Archieve	-
46	J.John , **K.UmaSamundesvari** "The Upper and Forcing edge-to-vertex Monophonic number of a graph"	2 349-359 2012	South Asian Journal of Mathematics	
47	**K.R. Sobha** P.Thangavelu, C.Elango, N.Anbalagan "Analysis of inventory	12 65-68 2012	Global Journal of Science Frontier Research	

	system with three stage of deterioration"			
48	**S.Ramachandran** "Reconstruction number of separable self-complementary graphs and others"	Accepted 2011	ArsCombinatoria	Impact factor 0.268
49	**P.B.Sarasija**,,**R.Binthiya** "Even Harmonious Graphs with Applications"	9, 161-163 2011	International Journal of Computer Science and Information Security	
50	**M.Muthukumar** K.SenthamaraiKannan "Markov Model for Acute Hypertension Analysis"	2 296-302 2011	Journal of computer & Mathematical Science	
51	**M.Muthukumar** K.SenthamaraiKannan "Profile Hidden Markov Model for Predicting T cells Epitopes"	2 22-25 2011	International Journal of ComputationalIntelligence Techniques	
52	**M.Muthukumar** K.SenthamaraiKannan "Stochastic Model for Blood pressure Analysis"	3 16-24 2011	Inter nationalJournal of advances in science and technology	
53	**J.John Arul Singh**, R.Kala "A note on Dom-color number of a graph"	53 511-523 2011	Indian Journal of Mathematics	
54	**S. Ramachandran** "Sufficient conditions for the N-reconstructibility of all digraphs "	68-76 2010	UtilitasMathematica	Impact factor 0.236 H index 20 SJR 0.35
55	**P.B.Sarasija** "Application of Fast Fourier Transforms"	1 762-765 2010	J.Comp&Math.Sci.	Impact factor 1.92
56	**P.B.Sarasija** "Analogue of the Schubert Submodules in Quantum Groups"	1 865-872 2010	J.Comp&Math.Sci.	Impact factor 1.92
57	**M.Devasaroja,**M.S. Paulraj "Note on energy of some graphs"	1, 213-216 2010	J.Comp&Math.Sci.	Impact factor 1.92

58	**M.Devasaroja,**M.S. Paulraj "Energy of complement graphs of some Equienergetic regular graphs"	1, 754-757 2010	J.Comp&Math.Sci.	Impact factor 1.92
59	**M.Devasaroja,**M.S. Paulraj "Equienergetic regular graphs"	3 21-25 2010	International Journal of algorithms, computing and Mathematics	
60	**V.Seetha Lakshmi,** D.Nagarajan V.Nagarajan ,P.Sunitha "Analysis of birth weight using singular value decomposition"	7 112-115 2010	International Journal of Computer Science and Information security	
61	**J.John Arul Singh**, R.Kala "Min – Dom - color number of a graph"	5 2019-2027 2010	Int. J. Contemp. Math. Sciences	
62	**J.John Arul Singh**, R.Kala "Hyperdomination in groups"	Accepted	ArsCombinatoria	
63	**S.Ramachandran** "A sufficient condition for Set Reconstruction"	91 439-446 2009	ArsCombinatoria	Impact factor 0.396
64	**S.Ramachandran** "Graph Reconstruction Conjecture: Reductions Using Complement, Connectivity and Distance."	56 103-108 2009	Bulletin of the Institute of Combinatorics and its Applications, Canada	
65	**S.Ramachandran** "Degree Associated Reconstruction number of stockmeyer Digraphs"	56 30-37 2009	Graph theory Notes of Newyork	
66	**S.Ramachandran** "Reconstruction conjecture-present trends of research"	8-14 2009	Algebra,graph theory and their appl.	

Year	No. of Publications in Peer Reviewed Journals
2009	05
2010	08
2011	06
2012	11
2013	13
2014	18
2015	05

Total Number of papers published in peer reviewed journals : 66

Monographs : Nil

Chapters in Books : Nil

Edited in Books : Nil

Books with ISBN with details of publishers :

Sl. No.	Name of the Book	Authors	ISBN	Year
(i)	Applied Mathematics I	Dr. M.Immaculate Mary Dr.P.B.Sarasija Ms.K.Uma Samundesvari Mrs.K.R.Sobha	978-81-8472-183-6	2011
(ii)	Applied Mathematics II	Dr. M.Immaculate Mary Ms.K.Uma Samundesvari	978-81-8472-195-9	2012
(iii)	Engineering Mathematics – I	Dr. M.Immaculate Mary Dr.K.Uma Samundesvari Dr.K.R.Sobha	ISBN-978-93-84295-06-6	2013
(iv)	Engineering Mathematics – II	Dr. M.Immaculate Mary Dr.K.Uma Samundesvari	ISBN-978-93-84295-13-4	2014

23. Details of Patents and income generated

Nil

24. Areas of consultancy and income generated

Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Mr.S.Kumaresan was a Resource person for the Training Programme for Executive Trainees of Nuclear Power Corporation India Ltd at Kudankulam

Nuclear Power project

18th batch : 29.09.2009 to 08.10.2009

19th batch : 17.09.2010 to 25.09.2010

26. Faculty serving in :

a) National committees
b) International committees
c) Editorial Boards
d) any other (please specify)

Dr. S. Ramachandran , Reviewer for Mathematical Reviews published by American Mathematical Society, R.I., USA

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Title	Workshop / Training Programs/ Seminar	Organized	Date, month & Year	Faculties participated
Mathematics	UGC Sponsored Refresher Course	University of Kerala, Kariavattom	1st to 22nd December 2000	Mrs.M.Immaculate Mary
Fuzzy Control and Discrete Mathematics	AICTE Sponsored SDP	NICE , Kumaracoil	11th to 23rd June 2007	Dr.M.Immaculate Mary, Dr.P.B.Sarasija Ms.R.Binthiya
Training For Trainers and Assessors (TOTA)	-	Maritime Foundation, Chennai	17th to 28th November 2008	Ms.R.Binthiya Ms.D.Sheeba Singh,
Computer Algorithms and Complexity	AICTE Sponsored SDP	NICE , Kumaracoil	4th to 16th May 2009	Dr.M.Immaculate Mary, Dr.P.B.Sarasija, Ms.K.Uma Samundesvari, Ms.R.Binthiya, Mrs.P.Nageswari, Mrs.K.Uma Devi,

				Ms.D.Sheeba Singh, Mrs. M.Sudha, Mr.G.Victor Jeya Chandra and Mrs.P.Jeba Sheeja
Engineering Practice on Fuzzy Logic, Neural Networks and Hybrid Intelligent systems	AICTE Sponsored SDP	National Institute of Technology, Tiruchirappalli	15th to 27th June 2009	Ms.R.Binthiya,
Faculty Development Programme	-	NICE ,Kumaracoil	4th to 13th January'2010	Mrs.P.Jeba Sheeja

28. Student Project :

S.No	Year	Course	Project	Percentage
1	2014-2015	M.Phil	Dissertation	100
2	2013-2014	M.Phil	Dissertation	100
3	2012-2013	M.Phil	Dissertation	100

29. Awards:

S.No	Faculty	Award	Organisation	National/ International
1	Dr.S.Ramachandran	Fellow (with about 850 members)	Institute of Cominatorics and its Applications, Winnipeg, Canada	International
2	Dr.S.Ramachandran	Reviewer	Mathematical Reviews published by American Mathematical Society, R.I., USA	International
3	Mr. G. Victor Jeya Chandra	First Rank in Zonal level Srinivasa	ISTE	National

		Ramanujan Mathematical Competitions 2013 for engineering and polytechnic students and teachers from India		
4	Mr. G. Victor Jeya Chandra	Second Rank in Zonal level Srinivasa Ramanujan Mathematical Competitions 2014 for engineering and polytechnic students and teachers from India	ISTE	National

30. Seminars / Conferences / Workshops Organized :

Sl.No.	Program	Topic	Grant Received	Date
(i)	SDP	Fuzzy Control and Discrete Mathematics	Rs.2,00000	11.06.2007 to 23.06.2007
(ii)	SDP	Computer Algorithms and Complexity	Rs.2,80,000	04.05.2009 to 16.05.2009
(iii)	Workshop	Latex	-	15.12.2010 to 16.12.2010
(iv)	Workshop	Applications of Statistical Methods	-	11-10-2012 & 12-10-2012
(v)	Workshop	Latex	-	25.10.2013 & 26.10.2013

31. Code of ethics for research followed by the departments:

The Code sets forth the ethical principles and standards that govern the professional work of education researchers. The Code of Ethics replaces the Ethical Standards, which were adopted in 1989 and have been only minimally modified since that time. The current Code is intended to provide guidance that informs and is helpful to education researchers in their research, teaching, service, and related professional work.

32. Student profile programme-wise :

Name of the Programme (refer to question no. 4)	Application received	Selected		Pass Percentage	
		Male	Female	Male	Female
M.Phil (2012-13)	26	00	12	00	100
M.Phil(2013-14)	22	00	09	00	100
M.Phil(2014-15)	25	01	10	100	100
M.Phil(2015-16)	29	02	13	Percuing	
M.Sc. (2014-15)	05	00	02	Percuing	
M.Sc. (2015-16)	48	00	25	Percuing	
Ph.D. Full time Ph.D.Part time	10 15	00 00	01 05	-	

33. Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Phil (2012-13)	0	89	11	0
M.Phil(2013-14)	0	89	11	0
M.Phil(2014-15)	0	73	27	0
M.Sc. (2014-15)	0	100	0	0
M.Phil(2015-16)	0	74	20	6
M.Sc. (2015-16)	0	100	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

Nil

35. Student Progression :

Student progression	Percentage against enrolled
UG to PG	Nil
PG to Ph.D	Nil
Ph.D to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil 05

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	0
from other universities within the State	100%
from universities from other States	0
from universities outside the country	0

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

S.No	Name of the Faculty	University	Awarded Year	Programme
1	Dr. M.Muthu Kumar	M.S University, Tirunelveli	2011	Ph.D
2	Dr.R.Subramoniam	Vinayaga Mission University, Selam	2011	Ph.D
3	Dr. V. Seethalakshmi	Vinayaga Mission University, Selam	2011	Ph.D
4	Dr.J.John Arul Singh	M.S University, Tirunelveli	2012	Ph.D
5	Dr.M.Deva Saroja	Mother Theresa University, Kodaikanal	2013	Ph.D
6	Dr.K.Uma Samundesvari	M.S University, Tirunelveli	2013	Ph.D
7	Dr.T.M.Selvarajan	M.S University, Tirunelveli	2013	Ph.D
8	Dr.K.R.Sobha	M.S University, Tirunelveli	2014	Ph.D
9	Dr.R.Binthiya	N.I.University	2015	Ph.D
10	Dr.P.Nageswari	N.I.University	2015	Ph.D
11	Dr.K.Uma Devi	M.S University, Tirunelveli	2015	Ph.D

38. Present details of departmental infrastructural facilities with regard to

a) Library

The department has a well furnished library. The details of the library are given below:

S.No	Items	Count
1	Books in Department library	1000
2	Dissertation Reports	31

b) Internet facilities for staff and students

The faculties and the students were provided internet connectivity by means of MKN project from BSNL with a speed of 1 GBPS which they can access the resources.

c) Total number of class rooms

There are 3 class rooms in our department

d) Class rooms with ICT facility:

Nil

e) Students' laboratories :

MCA Laboratory is used for teaching purpose

f) Research laboratories :

Nil

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

b) from other institutions/universities

PART TIME RESEARCH SCHOLARS					
Sl. No	Batch	Name of the Scholar	Address of the Scholar	Title of Research Topic	Name of the Supervisor
1	JULY 2010 DOR 02-08-2010	Mrs G. L .Lidwin Lucia Reg. No: 0110916201 **(EXTERNAL)**	No:III, 3,52A, Vadakakattuviklai Kuzhithurai (PO) K.K.Dist -629 163 Contact No:9884768360 Mail ID: ashikamol@gmail.com	Stochastical Linier Programming	Dr.K.L.Muruganantha Prasad Asst Professor Dept of Maths NICHE

PART TIME RESEARCH SCHOLARS					
Sl. No	Batch	Name of the Scholar	Address of the Scholar	Title of Research Topic	Name of the Supervisor
2	JANUARY 2011	Mr. G. S. Harikumar Reg. No.: 1111916202 **(EXTERNAL)**	S/o. G. Gopinathan Nair Ushus, Maruthoor Moonnukallinmoodu Neyyattinkara, Trivandrum, Kerala Tel.No. 04712222483 Mobile No.09447247300 E-mail: harikumargs@gmail.	Queueing Network Model-Congestion of Patients in Govt. Hospitals in Kerala.	Dr. K. L. Murugananda Prasad Asst. Professor Dept. of Mathematics Rajas Govt. Arts & Science Pudukottai
3	JANUARY 2011	Mrs. R. Binthiya Reg. No. 1111916201 **(INTERNAL)**	Assistant Professor Dept. of Mathematics NICHE Mobile No. 9688651156 E-mail: binthiya_r@yahoo.co.in	A Study on Graph Labeling	Dr. P. B. Sarasija Professor Dept. of Mathematics NICHE
4	JANUARY 2011	Mrs. P. Nageswari Reg. No. 1111916204 **(INTERNAL)**	Assistant Professor Dept. of Mathematics NICHE Mobile No. 9677318713 E-mail: nageswari.krishnan@yahoo.in	A Study on Graph Energy	Dr. P. B. Sarasija Professor Dept. of Mathematics NICHE
5	JANUARY 2011	Ms. D. Sheeba Singh Reg. No. 1111916205 **(INTERNAL)**	Assistant Professor Dept. of Mathematics NICHE Mobile No. 9486961620 E-mail: dssheeba@hotmail.com	Stochastic Processes – An Application to Bio-Medical	Dr. M. Immaculate Mary Professor & Head Dept of Mathematics NICHE

PART TIME RESEARCH SCHOLARS					
Sl. No	Batch	Name of the Scholar	Address of the Scholar	Title of Research Topic	Name of the Supervisor
6	JANUARY 2011	Mr. G. Victor Jeya Chandra Reg. No. 1111916206 **(INTERNAL)**	Assistant Professor Dept. of Mathematics NICHE Mobile No. 9486757921	A Study on Non – Linear Regression Equation and Simulatio	Dr. K. L. Murugananda Prasad Asst. Professor Dept. of Mathematics Rajas Govt. Arts & Science
7	**JUNE 2012**	Mrs. M.Sudha Reg. No. 0112916202 **(INTERNAL)**	Assistant Professor Dept. of Mathematics NICHE Mobile No. 9486962339 E-mail: sudha.jeyakumar@yahoo.in	A Study on Graceful Labeling	Dr.A.Chandra Babu Professor Dept. of Mathematics NICHE
8	**JUNE 2012**	Ms.Roshli Aniyeri Reg. No. 0112916201 **(EXTERNAL)**	Assistant Professor Dept. of Mathematics MahatmaGandhi Govt. Arts College Mahi E-mail: purerose2007@rediff.com Ram Nivas Po.Naluthara Palloor Mahi-673320 Mobile No. 09846321812	Operations Research	Dr.C.Ratnam Nadar Director(P.G Studies)& Professor NICHE
9	**JUNE 2014**	R.S.Ramya Reg. No: 0114916201 **(EXTERNAL)**	Supervisor, Dr.G.R.Memorial Trust, Neyyatinkara.	Intuitionistic Fuzzy Matrix	Dr.T.M.Selvarajan, Asst.Professor Dept. of Mathematics NICHE
10	**JUNE 2014**	SindhujaG.Michale Reg. No:0114916202 **(EXTERNAL)**	Asst. Professor, Dept. of Mathematics, Pon Jesley College of Engineering	Net Works in Graph Theory	Dr.K.Uma Samundesvari, Asst. Professor Dept. of Mathematics NICHE

FULL TIME RESEARCH SCHOLARS					
Sl.No	Batch	Name of the Scholar	Address of the Scholar	Title of Research Topic	Name of the Supervisor
1	**JUNE 2013**	Mrs.S.Devi Reg. No:0113916101	W/o.P.R.Arivazhagan, 19/107A S.S.N.S Bhavan, Mukkadu, Valuthalampallam, Chemponvillai(Post), K.K.Dist 629804.	Algebraic Graphs	Dr.J.John Arul Singh Asst. Professor Dept. of Mathematics NICHE

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

Yes. Experts from other universities and colleges were invited to frame an innovative curriculum and syllabi of the M.Phil. & M.Sc. Programme.

42. Does the department obtain feedback from :

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

No

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. No negative feedback regarding teaching-learning-evaluation process.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

No negative feedback regarding the programme offered. Library visit was implemented to the current batch of students, it was very useful to the students for doing their dissertation work.

43. List the distinguished alumni of the department (maximum 10):

Nil

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Program: **Workshop**

Sl.No.	Invitee	Title	Date
(i)	Dr.S.S.Vinod Chandra, Asst.Prof.,Department Computer Applications, College of Engineering, Trivandrum.	Workshop On LaTex	15-12-2010 & 16-12-2010
(ii)	Dr.G.Arivarignan, Dept. of Applied Mathematics and Statistics, Madurai Kamaraj University,Madurai	Two-Day Workshop On Applications Of Statistical Methods	11-10-2012 & 12-10-2012
(iii)	Dr. G. Stephen Vincent Visiting Professor Dept. of Statistics M S University, Tirunelveli	Two-Day Workshop On Applications Of Statistical Methods	11-10-2012 & 12-10-2012
(iv)	Dr.J.John Arul Singh, AP, Department of Mathematics, Noorul Islam University, Kumaracoil	Two-Day Workshop On Latex	25-10-2013 & 26-10-2013
(v)	Dr.M.Sattanathan, AP, Department of Mathematics, Einstein College of Engineering, Tirunelveli.	Two-Day Workshop On Latex	25-10-2013 & 26-10-2013
(vi)	Dr.S.Raja, AP, Department of Mathematics, SCAD College of Engineering and Technology, Tirunelveli	Two-Day Workshop On Latex	25-10-2013 & 26-10-2013
	Special lectures :		
	Invitee	Title	Date
(i)	Dr.C.Vijayalakshmi Professor, Dept. of Mathematics SAS,VIT – University Vandalur, Chennai – 127	Queueing Models and their Applications	12-04-2013

(ii)	Dr.S.Paul Raj, Asso. Prof., Dept. of Mathematics, CEG Campus, Anna University Chennai-25	Introduction to Operations Research	12-04-2013
(iii)	Dr. R.Kala, Asso. Prof.Dept of Mathematics, Manonmaniam Sundaranor Uminersity, Tirunelveli.	Basic Concepts in Domination Theory, Labeling and Order Prime Graphs	20-08-2013
(iv)	Dr. C. Ratnam Nadar, Direct,P.G.Studies, Noorul Islam Center for Higher Education Kumaracoil.	Research Methodology	01-10-2013
(v)	Dr.J.John, Asst.Prof., Dept.of.Mathematics, Govt. College of Engineering, Tirunelveli.	Steiner Number of a Graphs	22.02.2014
(vi)	Dr.M.Sivathanupillai**,** Prof., Skills Development, Noorul Islam Center for Higher Education Kumaracoil.	Managing Time – Managing Self	24-02-2014
(vii)	Dr.C.Vijayalakshmi Professor, Dept. of Mathematics SAS,VIT – University Vandalur, Chennai – 127	Stochastic Processes and its Application in real life	11-04-2014
(viii)	Dr. C.Elango, Asso. Prof. Dept of Mathematics, CPI College of Arts and Science, Bodi	Research Methodology in Mathematics	12-08-2014
(ix)	Dr. R.Elangovan, Prof. Dept of Statistics, Annamalai University, Annamalai Nager 608 002	Stochastic Processes and its Applications	18-08-2014

(x)	Dr.Sachin Jain, Prof., South Dokota University, USA	How to do Research?	19-09-2014
(xi)	Dr.A.Chandra Babu, Former Prof., Dept of Mathematics, NICHE	Reliability Applications in Medical Field	13-03-2015
(xii)	Dr. R.Kala, Asso. Prof.Dept of Mathematics, Manonmaniam Sundaranor Uminersity, Tirunelveli.	Derived Graphs	05-05-2015

45. List the teaching methods adopted by the faculty for different programmes :

- Traditional chalk & talk method
- ICT enabled teaching
- Problem solving sessions
- OHP

46. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Programme objectives are constantly met by upgrading the syllabus according to present day need. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedbacks, class committee meeting, programme committee meeting.

47. Highlight the participation of students and faculty in extension activities:

Nil

48. Give details of "beyond syllabus scholarly activities" of the department :

Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Innovative Student Projects with new ideas as part of curriculum
- Making students a part of the research done by the faculty

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strengths:

- Number of Ph.D degree holders is 9 (out of 14) and number of staff pursuing Ph.D is 5
- 6 Staff members having more than 15 years of teaching experience and rest of them having more than 8 years of teaching experience.
- Department offers M.Sc., M.Phil and Ph.D (Full Time and Part Time) courses.
- Number of Books in the department library: 984
- Books published by the Staff members: 6
- Number of publications in reputed journal upto 2015: 66
- The department has completed two DST funded projects successfully and one ongoing DST project with Dr.S.Ramachandran as a Principal Investigator.
- Workshop on LaTeX and workshop on Statistical Methods were conducted for the past three years.
- Guest lecturers were arranged for the M.Phil students and teachers from various institutions

Weaknesses:

- Department library does not have recent titles, essential journals and magazines.

Opportunities:

- The students are given ample opportunities for appearing the NET and SLET examinations.
- Training in software skills of different packages like MatLab, Latex and SPSS.
- There is an atmosphere for students and staffs to participate in research and creative endeavors because the department has nine doctorate holders.

Challenges:

- Dynamism in curriculum to meet fast changing career objectives is needed.
- Funded projects on some of the most challenging and important technical problems should be carried out.
- Sponsored workshops, FDPs, conferences to blend innovative ideas should be conducted.

- The requirement of the students to be trained in multi facets beyond curriculum is a need for the current placement requirement.

52. Future plans of the department :

- Motivate the students to do research.
- Get projects from funded agencies.
- Publish at least 10 articles in the citation indexed journal.
- Conduct International Conferences.
- Bring out Mathematics Department as an Excellence of Research.

Department Evaluative Report

Department of Chemistry



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of Chemistry
Evaluative Report

1. **Name of the Department :** Department of Chemistry

2. **Year of establishment** : 1989

3. **Is the Department part of a School/ Faculty of the university?**
   The department is a part of a University/ Faculty of Science & Humanities

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   PG : M.Sc. Chemistry
   Research : M.Phil Chemistry
   : PhD Chemistry

5. **Interdisciplinary programmes and departments involved**
   Nil

6. **Courses in collaboration with other universities, industries, foreign institutions, etc**
   Nil

7. **Details of programmes discontinued, if any, with reasons**
   Nil

8. **Examination System: Annual/Semester/Trimester/ Choice Based Credit System**
   Semester – Choice Based Credit System

9. **Participation of the department in the courses offered by other departments**
   Physics - Supportive papers offered by Physics department
   All UG Engineering Courses - Engineering Chemistry

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :**

Designation	Sanctioned	Filled	Actual (including CAS& MPS)
Professor	1	1	1
Associate Professors	1	1	1
Asst. Professors	3	3	3
Others Teaching Assistant	2	2	2

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil students guided for the last 4 years
Dr.M. Sankaranarayana Pillai	M.Sc., Ph.D	Professor	Inorganic Chemistry	32	PhD - 2 M.Phil – nil
Dr.J.Joseph	M.Sc., M.Phil., Ph.D	Associate Professor	Inorganic Chemistry	7	PhD - 3 M.Phil – 2
Mrs. S. Pushpa Latha	M.Sc., M.Phil.,	Assistant Professor	Inorganic Chemistry	14	M.Phil-2
Mrs. M. Sirajul Muneera	M.Sc., M.Phil.,	Assistant Professor	Inorganic Chemistry	11	-
Mrs. T. M. Sharmila	M.Sc., B.Ed, M.Phil.,	Assistant Professor	Inorganic Chemistry	7	-
Mrs.T. Priyanka	M.Sc., B.Ed, M.Phil.,	Assistant Professor	Inorganic Chemistry	6	-
Dr. V.L.Reena	M.Sc., Ph.D	Assistant Professor	Polymer Chemistry	4	M.Phil-2

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Sl.No	Name of Staff	Designation
1	Mrs. G. Anitha	Teaching Assistant
2	Mrs. Edinsha Gladis	Teaching Assistant

13. Percentage of classes taken by temporary faculty – programme-wise information

10% of work taken by research scholars (B.E – Engineering Chemistry Lab).

Sl.No	Name of research scholar	Subjects allotted
1	G. Ayisha Bibin Rani	Engineering Chemistry Lab
2	T.P.Kumari Pushpa Rani	Engineering Chemistry Lab
3	V. Sowmya	Engineering Chemistry Lab

14. Programme-wise Student Teacher Ratio :

M.Sc. - 12:1

15. Number of academic support staff (technical)and administrative staff: sanctioned, filled and actual :

Name of staff	Sanctioned	Filled	Actual
Supportive staff	3	3	3
Peon	1	1	1

16. Research thrust areas as recognized by major funding agencies :

1. Bioinorganic Chemistry
2. Synthetic Inorganic chemistry

Bioinorganic Chemistry is one of the important thrust areas of Chemistry. The research in this field was started by CSIR and DST, New Delhi with a financial support. The outcome of research was published in various research papers and received several citations and they have strong impact on the current research scenarios in India.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

S.No	Name of the Principal Investigator	Title of the Project	Funding Agency	Amount Sanctioned in lakhs	Month & Year of Commence-ment & Duration
1	Dr. J. Joseph	Therapeutic agents for Alzheimer's disease: Synthesis, characterization and pharmacological studies of copper complexes	CSIR, New Delhi	18 Lakhs	2011 – 2014 & 36 months (Completed)
2	Dr. J. Joseph	Design and development of therapeutic substitute for existing anti tuberculosis agents derived from copper complexes	DST, New Delhi	25 Lakhs	2013 – 2016 & 36 months

18. Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with

- **state recognition**
- **national recognition**
- **international recognition :** Nil

Sl. No	Name of the instrument	Make	Utilisation
1	Electrochemical Analyzer	CHI 604 D	100%
2	UV-Visible spectrophotometer	Systronics	100%
3	FT IR Affinity-1	Shimadzu	100%
4	Gel documentation system	Genei Merck	100%
5	Rotovap	Superfit	100%
6	Incubator	Technico	100%
7	Deep freezer	Blue star	100%

21. Special research laboratories sponsored by /created by industry or corporate bodies

Bioinorganic Research Lab was sponsored by NICHE for the benefit of postgraduate students and research scholars.

22. Publications:

- Number of papers published in peer reviewed journals
  National : Nil
  International : 21
- Monographs : Nil
- Chapters in Books / Edited Books : Nil
- Books with ISBN with details of publishers : 2
- Number listed in International Database :21
  (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average SNIP/ SJR : 8
- Impact Factor – range : 0.5-3.725

Sl. No	Author, Title of the Paper	Vol No., Page No., Year	Name of the Journal	Impact factor
1	K.Nagashri, J Joseph, C. Justin Dhanaraj Copper (II) complexes of hydroxyl flavone derivatives as potential bioactive molecule to combat antioxidants: synthesis, characterization and pharmacological activities	25 (9), 704-717, 2011.	Applied Organometallic Chemistry	2.248
2	K Nagashri, J Joseph, CJ Dhanaraj Pharmacological and spectral studies of synthetic biomimetic copper complexes derived from 3-hydroxyflavone derivatives as anti-inflammatory agents	2011	Arabian Journal of Chemistry	3.725
3	J Joseph, K Nagashri, GB Janaki Novel metal based anti-tuberculosis agent: synthesis, characterization, catalytic and pharmacological activities of copper complexes	49, 151-163, 2012.	European journal of medicinal chemistry	3.447
4	J Joseph, K Nagashri Novel copper-based therapeutic agent for anti-inflammatory: synthesis, characterization, and biochemical activities of copper (II) complexes of hydroxyflavone Schiff bases	167 (5), 1446-1458, 2012	Applied Biochemistry and biotechnology	1.735
5	RS Joseyphus, E Viswanathan, CJ Dhanaraj, J Joseph Dielectric properties and conductivity studies of some tetradentate cobalt (II), nickel (II), and copper (II) Schiff base complexes	24 (3), 233-236, 2012	Journal of King Saud University-Science	-
6	J Joseph, GB Janaki, K Nagashri, RS Joseyphus, CJ Dhanaraj Highly conjugated curcumin analog based copper complexes towards tuberculosis: synthesis, characterization and antimycobacterial activity	12 (1), 1-1, 2012	BMC Infectious Diseases	2.61

7	CJ Dhanaraj, J Johnson, J Joseph, RS Joseyphus Quinoxaline-based Schiff base transition metal complexes: Review	66 (8), 1416-1450, 2013	Journal of Coordination Chemistry	
8	J Joseph, K Nagashri, GAB Rani Synthesis, characterization and antimicrobial activities of copper complexes derived from 4-aminoantipyrine derivatives	17 (3), 285-294, 2013.	Journal of Saudi Chemical Society	2.523
9	J Joseph, GAB Rani Metal based SOD mimetic therapeutic agents: Synthesis, characterization and biochemical studies of metal complexes	2013	Arabian Journal of Chemistry	3.725
10	J Joseph, GB Janaki Synthesis, structural characterization and biological studies of copper complexes with 2-aminobenzothiazole derivatives	1063, 160-162, 2014.	Journal of Molecular Structure	1.602
11	RS Joseyphus, C Shiju, J Joseph, CJ Dhanaraj, D Arish Synthesis and characterization of metal complexes of Schiff base ligand derived from imidazole-2-carboxaldehyde and 4-aminoantipyrine	133, 149-155, 2014.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2.353
12	J Joseph, GAB Rani Metal-Based Molecular Design Tuning Biochemical Behavior: Synthesis, Characterization, and Biochemical Studies of Mixed Ligand Complexes Derived From 4-Aminoantipyrine Derivatives	47 (2), 86-100, 2014.	Spectroscopy Letters	0.852
13	J Joseph, GAB Rani Antioxidant and Biochemical Activities of Mixed Ligand Complexes	172 (2), 867-890, 2014	Applied Biochemistry and Biotechnology	1.735
14	J. Joseph and Manju George, Antimicrobial susceptibility of selected medicinal fruit-Myristica fragrans	2014, 6 (6):396-402	Der Pharmacia Lettre	-

15	J. Joseph and A. Suman Molecular design, synthesis, spectral characterization and biological studies of copper complexes derived from Knoevenagel condensates	2015, 7(7):289-302.	Der Pharma Chemica	-
16	R. Selwin Joseyphus, C. Shiju, J. Joseph, C. Justin Dhanaraj and K. C. Bright, Synthesis and characterization of Schiff base metal complexes derived from imidazole-2-carboxaldehyde with L-phenylalanine	2015, 7(6):265-270.	Der Pharma Chemica	-
17	M. Sankaranarayana Pillai and S. Pushpa Latha Designing of some novel metallo antibiotics tuning biochemical behaviour towards therapeutics: Synthesis, characterisation and pharmacological studies of metal complexes of cefixime	2012	Journal of Saudi Chemical Society	2.523
18	J. Joseph, G. Boomadevi Janaki Synthesis, structural characterization and biological studies of copper complexes with 2-aminobenzothiazole derivatives	5 (3) (2014) 693-704	J. Mater. Environ. Sci.	-
19	Vinod Kumar K.P., Sankara Narayanan Pillai M., Rexin Thusnavis G. Inhibition of mild steel corrosion in hydrochloric acid by the seed husk extract of Jatropha curcas	1 N°2 (2010) 119-128.	J. Mater. Environ. Sci.	-
20	G. Rexin Thusnavis, K.P.Vinod Kumar, M. Sankara Narayanan Pillai Green seed extract of Tectona grandis as corrosion inhibitor for mild steel in acid medium	3 (2014) 5- 8	Advances in Materials and Corrosion	-
21	G. Rexin Thusnavis, K. P. Vinod Kumar, M. Sankara Narayana Pillai and R. Inigo Adsorption and Corrosion Inhibitive Studies of Hevea brasiliensis Seed Husk Extract on Mild Steel	169-170, 2014	Recent Advances in Surface Science	-

23. Details of patents and income generated :

Nil

24. Areas of consultancy and income generated:

Water analysis Rs. 20,000/ year

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad :

Dr. J. Joseph was selected to undergone Summer Research Fellowship programme (offered by Indian Science Academy, Bangalore) at Punjab University, Chandigarh from June to August 2014. Dr. K.K. Bhasin, Professor, Dept of Chemistry as Mentor.

Dr. J. Joseph was selected and participated in the Science Academy Refresher course at Central University of Rajasthan from Jan 10^{th} to 25^{th} Jan 2015. He was visited chemistry laboratory.

26. Faculty serving in

a) National committees

b) International committees

c) Editorial Boards : TANG [HUMANITAS MEDICINE]

d) Reviewer

Dr. J. Joseph
- Spectrochim Acta Part-A Biomolecular spectroscopy
- Journal of Molecular structure
- Molecules
- Arabian Journal of Chemistry
- Journal of Electroanalytical chemistry

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)**

Our faculty members were participated in the refresher course, workshop, training programs and update their knowledge in the thrust areas of chemistry.

Sl. No	Name of the staff	Name of workshop/training programmes/ Refresher course	Date	Place
1	M.Sirsjul Muneera	Workshop on Research project writing	21st August 2012	Noorul Islam University
2		National Workshop on Radio Chemistry & Applications of Radio isotopes	10-15,FEB-2014	Noorul Islam college of Arts & Science, Kumaracoil

3		Academy Lecture Workshop on Emerging Trends in Chemical Sciences	20-22nd Feb, 2015	Noorul Islam University
4	T. M. Sharmila	Workshop on Research project writing	21st August 2012	Noorul Islam University
5		National Workshop on Radio Chemistry & Applications of Radio isotopes	10-15,FEB-2014	Noorul Islam college of Arts & Science, Kumaracoil
6		Academy Lecture Workshop on Emerging Trends in Chemical Sciences	20-22nd Feb, 2015	Noorul Islam University
7	S. Pushpa Latha	Workshop on Research project writing	21st August 2012	Noorul Islam University
8		Workshop on research methodology & Statistical Package	16-18th September 2010	Noorul Islam University
9	Dr. J. Joseph	Faculty Development programme	4th -13th January 2010	Noorul Islam University
10		Short term training programme in "Time series modelling and spectral analysis"	12th -17th July 2010	IITMadras, Chennai
11		Workshop on PROTEINS-structure, function and folding	20th-24th December 2010	IISc, Bangalore
12		QIP Short term course on workshop on medical imaging	2nd – 8th January 2011	IIT Kharagpur
13		Faculty Development programme-Current Trends in Organometallic Chemistry	4th – 8th July, 2011	NIT Calicut
14		Workshop on Research project writing	21st August 2012	Noorul Islam University
15		Science Academies' Refresher Course in Advances in Chemical Sciences and Sustainable	January 12–25, 2015	Central University of Rajasthan, Ajmer

		Development		
16		Symposium cum Workshop Advances in Computational Biology and Computer Aided Drug Design	24-26 June 2015	IIT Guwahati

28. Student projects :

- **percentage of students who have done in-house projects including inter-departmental projects :** 80%

- **percentage of students doing projects in collaboration with other universities /industry / institute :** 20%

29. Awards / recognitions received at the national and international level by

- **Faculty** National - 4

  Dr. J. Joseph
  - Young Research Award (ICBDM -2014-organized by Dept of managements studies, Noorul Islam University)
  - Best Oral Presentation award (International conference organized by North Maharastra University, Jalgon)
  - Selected as Summer Research Fellow by Indian Science Academy, Bangalore
  - Selected as Young Scientist under research scheme by DST, New Delhi.

- **Doctoral students** National - 3

  K. Nagashri - DST INSPIRE Fellowship

  G.Boomadevi Janaki – CSIR-SRF

  A. Suman - Best paper award
- **Students** : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any :

Sl.No	Name of the event	Date	Funding agency	Amount sanctioned (Rs)
1	National seminar on "Nanomedicine"	20.11.2010	TNSCST	10000.00
2	DST sponsored seminar on Emerging Trends in chemical Sciences	18th & 19th September 2014	DST, New Delhi	100000.00

3	Science academics sponsored seminar on Emerging Trends in chemical Sciences	20th – 22nd Feb, 2015	Indian academy of Sciences, Bangalore	134342.00
4	DST INSPIRE Science camp for IX students	02-06th Feb 2012	DST, New Delhi	975000.00
5	DST INSPIRE Science camp for IX students	15-19th July 2012	DST, New Delhi	975000.00
6	DST INSPIRE Science camp for IX students	15-19th July 2013	DST, New Delhi	975000.00
7	DST INSPIRE Science camp for IX students	20-24th November 2013	DST, New Delhi	975000.00
8	DST INSPIRE Science camp for IX students	04-08th August, 2014	DST, New Delhi	975000.00
9	DST INSPIRE Science camp for IX students	12-16th Feb, 2015	DST, New Delhi	975000.00
10	DST INSPIRE Science camp for IX students	08th-12th Oct, 2015	DST, New Delhi	975000.00 (Preparations are going on)

31. **Code of ethics for research followed by the departments** :

UGC regulations on minimum standard and procedure for the award of M.Phil/Ph.D. degree – 2009 are followed. The department also has followed the institutional ethical committee.

32. Student profile programme-wise

Year	**Name of the Programme** (refer to question no. 4)	**Applications received**	**Selected**		**Pass percentage**	
			Male	**Female**	**Male**	**Female**
2011-12	PhD	1	-	1	-	-
2012-13	M.Phil Chemistry PhD. Chemistry	7 9	- 2	3 2	- -	100 -
2013-14	M.Sc Chemistry M.Phil Chemistry PhD. Chemistry	26 5 4	2 - -	12 2 2	100 - -	98 100 -
2014-15	M.Sc Chemistry M.Phil Chemistry PhD. Chemistry	18 - 3	2 - -	6 - 1	- - -	- - -

33. Diversity of students :

Name of the Programme (refer to question no.4)	**% of students from the same university**	**% of students from other universities within the State**	**% of students from universities outside the State**	**% of students from other countries**
M.Sc	NA	80 %	20%	NIL
M.Phil	Nil	90%	10%	NIL
PhD	10%	80%	10%	NIL

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

Nil

35. Student progression :

Student progression	**Percentage against enrolled**
UG to PG	**NA**
PG to M.Phil.	Nil
PG to Ph.D.	**Nil**
Ph.D. to Post-Doctoral	Nil
Employed · Campus selection	**NIL**
Other than campus recruitment	Recruited as Asst. Professor in Engineering and Arts & science colleges
Entrepreneurs	Nil

36. Diversity of staff :

Percentage of faculty who are graduates of	
the same university	**-**
From other universities within the state from	**100%**
Universities from other states from	**-**
Universities outside the country	**-**

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

M.Phil - 1

38. Present details of departmental infrastructural facilities with regard to :

a) Library - one
b) Internet facilities for staff and students - Separate laptop for staff
Desktop for students (2 Nos)
c) Total number of class rooms - 2 class rooms
d) Class rooms with ICT facility - one
e) Students' laboratories - Three Nos
f) Research laboratories - Two Nos

39. List of doctoral, post-doctoral students and Research Associates :
Doctoral students

a) **from the host institution/university** **:** One
: Ms. V. Sowmya

b) **from other institutions/universities**

Sl.No	Name of scholar	Full time/ Part time	Year
1	Mrs. S. Pushpa Latha	Part time	2009
2	Ms. K. Nagashri	Full time	2010
3	Ms. G. Ayisha Bibin Rani	Full time	2010
4	Ms. G. Boomadevi janaki	Full time	2011
5	Mr. A. Suman	Full time	2012
6	Mr. P. Dharmapandian	Part time	2012
7	Mrs. Manju George	Part time	2012
8	Mrs.T.P. Kumari Pushpa rani	Full time	2012
9	Mrs. T.M. Sharmila	Part time	2013
10	Mrs. M. Sirajul Muneera	Part time	2013
11	Mrs. Nisha Balakrishnan	Full time	2014

Research Associate

a) **from the host institution/university:** One
: Dr. K. Nagashri

b) **from other institutions/universities : Nil**

40. Number of post graduate students getting financial assistance from the university

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

Syllabus revision was undertaken to include the latest developments.

42. Does the department obtain feedback from

a. **faculty on curriculum as well as teaching-learning -evaluation? If yes, how does the department utilize the feedback**?

Yes. Feedback received from the faculties is placed before the Departmental Committee to revise the curriculum.

b. students on staff, curriculum and teaching-learning -evaluation and how does the department utilize the feedback?

Students on staff – every academic year feedback is obtained by the Head of the Departments and the findings are communicated to the Faculty individually every year. The feedback is taken into account for promotion.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Yet to receive the feed back

43. List the distinguished alumni of the department (maximum 10) :

Sl. No.	Name of the distinguished alumni	Details of occupation
1	Ms. Subashini	Lecturer, PSN College of Engg, Ramanathichanputhoor.
2	Dr. G. BoomaDevi Janaki	Research Associate, Bits Pilani Goa campus
3	Dr. G. Ayisha Bibin Rani	Lecturer, Nanjil college of Arts & Science, Marthadam, KKDist.
4	Mrs. G.Anitha	Teaching assistant, Noorul Islam University, Kumaracoil
5	Ms. G. Anusha	Teacher Kongu Matric Higher Secondary School, Nammakal
6	Dr.K.Nagashri	Assistant professor, Renganayagi varatharaj College of engineering Sivakasi

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :

Special Lectures are arranged to students to enrich the knowledge.

45. List the teaching methods adopted by the faculty for different programmes :

OHP Presentation , Power Point Presentation

46. How does the department ensure that programme objectives are constantly met and learning outcomes- are monitored ?

Discussion with the students - Sessional assessments

47. Highlight the participation of students and faculty in extension activities.

Students participate in the conference/ seminars.
Faculty members participate and develope their knowledge through training programmes, workshops and seminars.

48. Give details of "beyond syllabus scholarly activities" of the department :

Conducting INSPIRE Internship Science camp Programme for IX standard students every year sponsored by the Department of Science & Technology, New Delhi.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

The research outcomes in terms of publications made by the faculty members in reputed international journals developed new knowledge in the Department.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strength

1. Qualified faculty members
2. Interdepartmental collaborative research
3. Placement facility
4. Invited lectures delivered by Scientists and Academicians from Different leading academic and research institutes
5. Sophisticated instruments available for research

Weakness

1. Faculty strength has to increased
2. More research grants has to increased

Opportunities and Challenges

1. Research students trained in multidisciplinary areas
2. Postgraduate students trained in instrument handling
3. Students placement in academic institutes and in industry.

52. Future plans of the department :

To make the department into a fully equipped research centre, getting sophisticated instruments & utilising these to the benefit of research scholars of this area. To start innovative programmes provide more job opportunities for the graduates. To provide more job oriented

training programmes for the benefit of post graduates and doctoral students. To motivate the faculty members to submit more research projects to various funding agencies.

Department Evaluative Report

Department of English



Noorul Islam Centre for Higher Education
(Deemed to be university under section 3 of UGC act 1956)

Department of English
Evaluative Report

1. **Name of the Department** : DEPARTMENT OF ENGLISH

2. **Year of establishment** : 1989

3. **Is the Department part of a School/Faculty of the university?**
   Yes. Faculty of Science and Humanities

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
   UG Courses: Nil
   PG Courses: M.A. English Literature
   M.Phil. English Literature
   Ph.D. English

5. **Interdisciplinary programmes and departments involved :**

Sl.No	Subject Code and Subject Name	Year	Department offering the course
1.	Nil	Nil	Nil

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
   Nil

7. **Details of programmes discontinued, if any, with reasons :**
   Nil

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**
   Semester - Choice Based Credit System

9. **Participation of the department in the courses offered by other departments :**

B.E /B.Tech Programme:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	EG-251 Career Skills -I	I	All Departments offering B.E./B.Tech Semester -3 except Marine Engineering
2.	EG-252 Career Skills -II	II	All Departments offering B.E/B.Tech. Semester -4 except Marine Engineering

3.	EG-253 Presentation Skills -I	II	All Departments offering B.E/B.Tech. Semester -5 except Marine Engineering
4.	EG-254 Presentation Skills -II	II	All Departments offering B.E/B.Tech. Semester -6 except Marine Engineering

Marine Engineering Programme:

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MR211-Communicative English and Sociology	I	Department of Marine Engineering

BBA programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	MS2E2- English-I	I	Department of Management Studies
2.	MS16E2- English-II	II	Department of Management Studies

MCA programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	EG-251 Career Skills -I	I	Departments of Computer Applications
2.	EG-252 Career Skills -II	II	Departments of Computer Applications
3.	EG-253 Presentation Skills -I	II	Departments of Computer Applications
4.	EG-254 Presentation Skills --II	II	Departments of Computer Applications

M.Sc. (Software Engineering) programme

Sl. No	Subject Code and Subject Name	Year	Department offering the course
1.	EG-251 Career Skills -I	I	Department of Software Engineering
2.	EG-252 Career Skills -II	II	Department of Software Engineering
3.	EG-253 Presentation Skills -I	II	Department of Software Engineering
4.	EG-254 Presentation Skills -II	II	Department of Software Engineering

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors / Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	02	
Associate Professors	02	02	
Asst. Professors	05	05	
Others	05	05	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	**Qualification**	**Designation**	**Specialization**	**No. of Years of Experience**	**Ph.D./M.Phil. students guided for the last 4 years**
Dr.M.L.Narayanan	M.A., M.Phil., Ph.D., B.Ed., C.Lings.	Prof. & Director , Grievance Cell	Indian Writing in English		NIL
Dr.B.Krishnan	M.A., M.Phil., Ph.D.	Prof. & Director, Humanities & I Yr. B.E./B.TECH.	British Fiction	40	NIL
Prof. A.Khaleel Rahuman	M.A., M.Phil.	Associate Prof.& HOD	British and American Literature	20	05
Dr.M.Ilankumaran	M.A., M.Phil., Ph.D.	Associate Prof. & Coordinator I Yr. B.E./B.TECH.	ELT	10	04
Ms .R.Abilasha	M.A., M.Phil.	Assistant Prof.	ELT	08	04
Ms. P.Deepa	M.A., M.Phil.	Assistant Prof.	Indian Writing in English	08	04

Ms. V.S.Bindhu	M.A., M.Phil.	Assistant Prof.	American Literature	08	03
Ms.J.Sheila	M.A., M.Phil.	Teaching Assistant	Canadian Literature	14	04
Mr. G. Anand Binod Singh	M.A., M.Phil.	Teaching Assistant	Indian Writing in English	09	05
Ms. M. Kohila	M.A., M.Phil.	Teaching Assistant	American Literature	09	04

Faculty Associated with Civil Department

Name	Qualification	Designation	Specialization	No. of Years of Experience	Ph.D./M.Phil. students guided for the last 4 years
Dr.K.M.Arun	M.A., M.Phil., Ph.D.	Assistant Prof.	Indian Writing in English	04	03

Faculty Associated with Mechanical Department

Name	Qualification	Designation	Specialization	No. of Years of Experience	Ph.D./M.Phil. students guided for the last 4 years
Mr.M.Rakesh Babu	M.A., M.Phil.	Teaching Assistant	Canadian Literature	07	05
Dr.R.Pranesh Kumar	M.A., M.Phil., Ph.D.	Assistant Prof.	ELT	05	05

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information :

Nil

14. Programme- wise Student Teacher Ratio :

Sl. No.	Name of the Programme	Teacher - Student ratio
1	M.A.	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Sanctioned : 01
Filled : 01
and actual : 01

16. Research thrust areas as recognized by major funding agencies :

British Literature, American Literature, Indian Writing in English, Canadian Literature, Commonwealth Literature, English Language Teaching, Modern Literature and New Literatures in English

17. Number of faculty with ongoing projects from a)national b)international funding agencies and c)Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Sl.no.	Name of the faculty	Funding agency	Project title	Grants received	Duration
(i)	Nil	Nil	Nil	Nil	Nil

18. Inter-institutional collaborative projects and associated grants received :

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Sl.no.	Name of the faculty	Funding agency	Project title	Grants received	Duration
(i)	Nil	Nil	Nil	Nil	Nil

20. Research facility/centre with:

Nil

21. Special Research Laboratories sponsored by / created by Industry or Corporate bodies :

Not Applicable

22. Publications :

- Number of papers published in peer reviewed journals(National/International)
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range /Average
- h-index

The following table provides the details of the publications of faculty members of Department of English during the period from 2009 to 2015.

Sl. No	Authors, Title of the paper	Vol. No., Page No. Year	Name of the Journal	Impact factor SNIP / SJR H-index
1	A. Khaleel Rahuman, Mary Vinola Jenefer , Self-Exile as Reaction to Marginalization: A Study of Kiran Desai's Hullabaloo in the Guava Orchard	Vol.5, 17- 21 Apr. 2014	New Trends in English Literature and Language	-
2	A. Khaleel Rahuman, Dilsha Zanam, From Disaster to Redemption; A Study of John Barth's The Floating Opera	17- 21 2015	ICCBDM	-
3	M. Ilankumaran, P.Venugopalan, 'Critical Thinking in Creative Communication Skills',	Volume 3, Issue 1, 89-94, Jan, 2012,	Contemporary Discourse	-
4	M. Ilankumaran, P.Venugopalan, 'Communication Skills in English through Developmental Speaking'	Volume 3, Issue 2, 61-67, July, 2012	Contemporary Discourse	-

5	M. Ilankumaran, P.Venugopalan, 'The Need of English for the Students of Engineering Studies',.	Volume 1, Issue 1, July -Aug 2012	Research Today	-
6	M. Ilankumaran, P.Venugopalan, 'The Transition of English as a Language for Communication from Gutless Past to Glorious Present'	Volume 1, Issue 1, 31-36, 2012	Research Access	-
7	M. Ilankumaran, 'The Role of Effective Communication in Comprehensive Disaster Management Ensuring Preparedness and Resilience'	Vol.1 2012	ICCDM – 2012	-
8	Dr. M. Ilankumaran, 'Effective Speaking and Effective Listening' Innovation and Best practices in Teaching and Learning,	Volume II, 16, Jan. 2014,	Journal of Teacher, Learner and Researcher	-
9	Dr. M. Ilankumaran, 'Think Creatively and Speak Effectively' ,	Volume II, , 156 - 160, Feb 2014	Journal of Teacher, Learner and Researcher	-
10	Abilasha.R, Dr. M. Ilankumaran, 'Virtual Realia – ICT Tools used for Developing Communicative Abilities in English'	Volume II, 16-18, Feb. 2014	Journal of Teacher, Learner and Researcher,	-
11	Vimal.S, Dr. M. Ilankumaran, 'Communication Skills in English through Cognitive Factors – An Analysis'	Volume II, 39-57, Feb. 2014	Journal of Teacher, Learner and Researcher,	-
12	Suma Maduri Devi.L, Dr. M. Ilankumaran, 'Acquisition of Communication Skills: Challenges and Strategies',	Volume II, 13-15, Feb. 2014	Journal of Teacher, Learner and Researcher	-
13	Abilasha.R, Dr. M. Ilankumaran, 'Developing Communication Competence of the Students of Engineering Courses'	67-71, April 2014	New Trends in English Literature and Language	-

14	Suma Maduri Devi.L, Dr. M. Ilankumaran, 'Problems and Approaches in Communication Skills Acquisition', New Trends in English Literature and Language'	231-234, April 2014	New Trends in English Literature and Language	-
15	Vimal.S, Dr. M. Ilankumaran, ' Acquisition of Languages during the Childhood Period', New Trends in English Literature and Language,	245-247 April 2014	New Trends in English Literature and Language	-
16	R. Abilasha, Dr. M. Ilankumaran, 'New Trends in English Language Teaching – A Novel Perspective'	Volume 2, Issue 11, PP 46–52, November, 2014	International Journal on Studies in English Language and Literature (IJSELL)	Impact Factor 3.537
17	R. Abilasha, Dr. M. Ilankumaran, 'Trends in Teaching Based on Emerging Technologies– A New Perspective'	Volume 4, Issue 12, PP 2832–2834, December, 2014,	International Journal of Development Research	Global Impact Factor 0.471 (Calculated IF 1.120)
18	R. Abilasha, Dr. M. Ilankumaran, 'Incarnation of ICT in English Language Teaching'	Volume 2, Issue 4, PP 216– 220, 2014	Research Journal of English Language and Literature (RJELAL)	Impact Factor 0.475
19	R. Abilasha, Dr. M. Ilankumaran, 'The Need of Professional Communication in English for Engineering Students'	Volume x, Issue XX, PP XX December, 2014	Research Scholar: An International Refereed e-Journal of Literary Explorations	Impact Factor 0.793 (Indexed & Open Access)
20	Dr. M.Ilankumaran, 'K. Balachander – The Champion of Radical Feminism, A Critical Review of KB's Select Films'	Volume 3, Issue 12, PP 39 -44 December, 2014	The International Research Journal of Social Sciences And Humanities	Impact Factor 0.989

21	R. Abilasha, Dr. M. Ilankumaran, 'New Trends in English Language Teaching – A Novel Perspective', with	Volume 2, Issue 11, PP 46–52, November, 2014	3134 (Online) International Journal on Studies in English Language and Literature (IJSELL)	Impact Factor 3.537
22	R. Abilasha, Dr. M. Ilankumaran, 'Trends in Teaching Based on Emerging Technologies– A New Perspective'	Volume 4, Issue 12, PP 2832–2834, December, 2014,	International Journal of Development Research	Global Impact Factor 0.471 (Calculated IF 1.120)
23	R. Abilasha, Dr. M. Ilankumaran, 'Incarnation of ICT in English Language Teaching'	Volume 2, Issue 4, PP 216– 220, 2014	Research Journal of English Language and Literature (RJELAL)	Impact Factor 0.475
24	R. Abilasha, Dr. M. Ilankumaran, 'The Need of Professional Communication in English for Engineering Students'	Volume x, Issue XX, PP XX December, 2014	Research Scholar: An International Refereed e-Journal of Literary Explorations	Impact Factor 0.793 (Indexed & Open Access)
25	R. Abilasha, Communication Skills through Classroom Activities,	Vol-2 , 16 -18,	Journal of Teacher Learner and Researcher	-
26	Abilasha.R, Dr. M. Ilankumaran, 'Virtual Realia – ICT Tools used for Developing Communicative Abilities in English'	Volume II, 16-18, Feb. 2014	Journal of Teacher, Learner and Researcher,	-
27	Abilasha.R, Dr. M. Ilankumaran, 'Developing Communication Competence of the Students of Engineering Courses'	67-71, April 2014	New Trends in English Literature and Language	-
28	P. Deepa, The Study of Himalayan Tsunami in Uttarakand	Volume-2 Apr. 2014	NISMA	-

29	The Impact of Multimedia Language Lab in Communicative Language Teaching,	Vol-1 , 67- 71' 2014	New Trends in English Literature and Language	-
30	P. Deepa, Mahesh Dattani's The Fatalistic Feminine Tara	April 2014	New Trends in English Literature and Language	-
31	P. Deepa, A Critical Reading of Aravind Adiga's The White Tiger	April 2014	New Trends in English Literature and Language	-
32	P. Deepa, Immigrant Experience and Dilemma in Jhumpa Lahiri's The Namesake,	Feb.2014	ICCDBM	-
33	J.Sheila , Existential Crisis and Affirmation in Margaret Laurence's *The Fire Dwellers*	Apr. 2014	New Trends in English Literature and Language	-
34	G.Anand Binod Singh, "The Historical Sense in *The Shadow Lines* by Amitav Ghosh".	Vol.4, Issue 2, 6-12. Sept. 2014	Research Drops	-
35	G.Anand Binod Singh, "Cultural Statements in *The Hungry Tide* by Amitav Ghosh".	Vol. III, Issue V, July 2015,	IJELLH	-
36	M.Kohila , Struggle for Searching the Self – A Scrutiny of Bharati Mukherjee's Novels,	Volume 2 2014	NISMA	-
37	M.Kohila, Feminine Mystique in Bharati Mukherjee's *Jasmine*	Apr. 2014	New Trends in English Literature and Language	-
38	M.Rakesh Babu, History of a steamer in The Blue Canadian Waters: A Reading of Sharon Pollock's The Komagata Maru Incident	Apr.2014	NISMA, TeLeR	-

39	Dr. R.Pranesh Kumar *Learner-Centeredness: An Ideal Option to Foster Language Learning Among Adult Learners*, (English Language Teaching: Techniques and Hurdles	2013	English Language Teaching: Methods and Challenges,	-
40	Dr. R.Pranesh Kumar , *Women as writers*	Vol. 2, Feb. 2014,	International Journal of Current Research and Academic Review	-
41	Dr. R.Pranesh Kumar ,*Cognitive Strategy to Enhance L2 Learning*	Volume-2 , pp 117-120 Feb. 2014,	NISMA-Journal of Teacher Learner and Researcher,	-
42	Dr. R.Pranesh Kumar , *CPH and Age Effects in Language Acquisition Process*	Vol.2 pp 115-116 Feb. 2014	NISMA-Journal of Teacher Learner and Researcher,	-
43	Dr. R.Pranesh Kumar , *Reading as an Effective Cognitive Strategy to Enhance L2 Learning*	Vol.2, pp117-120 Feb. 2014	NISMA-Journal of Teacher Learner and Researcher	-
44	Dr. R.Pranesh Kumar , *Existentialist Reflections on Contemporary Society*	pp 73-79. Mar. 2015	Journal of Teacher Learner and Society	-
45	Dr. R.Pranesh Kumar, Handling Errors in L2 Class Room	pp 44-45 Feb. 2015	NISMA-Journal of Language and Literature	-
46.	Dr. R.Pranesh Kumar, The Optimism of Existentialism	pp 46-49 Feb. 2015	NISMA-Journal of Language and Literature	-

Year	No. of Publications in Peer Reviewed Journals
2009	Nil
2010	Nil
2011	Nil
2012	06
2013	02
2014	10
2015	04

Total Number of papers published in peer reviewed journals : 22/46
Monographs : Nil
Chapters in Books : Nil
Edited Books : Nil
Books with ISBN with details of publishers:

Sl. No.	Name of the Faculties	Title	ISBN	Year
1.	Dr.M.Ilanku maran	Technical English for Engineering Students -I	ISBN 978-81-8472-181-2	2011
2.	Dr.M.Ilanku maran	Technical English for Engineering Students -II	ISBN-9788184721966	2012
3.	Dr.M.Ilanku maran	Technical English for Engineering Students -I	ISBN 978-93-84295/07/03	2015
4.	Ms. R. Abilasha	Technical English for Engineering Students -I	ISBN 978-81-8472-181-2	2011
5.	Ms. R. Abilasha	Technical English for Engineering Students -II	ISBN-9788184721966	2012
6.	Ms. R. Abilasha	Technical English for Engineering Students -I	ISBN 978-93-84295/07/03	2015
7.	Ms. P. Deepa	Technical English for Engineering Students -II	ISBN-9788184721966	2012
8.	Ms. V.S. Bindhu	Technical English for Engineering Students -I	ISBN 978-81-8472-181-2	2011
9.	Ms. V.S. Bindhu	Technical English for Engineering Students -II	ISBN-9788184721966	2012

23. Details of Patents and income generated
Nil

24. Areas of consultancy and income generated
Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :
Nil

26. Faculty serving in :

a) National committees : Nil

b) International committees Nil

c) Editorial Boards:

1. Dr. M. Ilankumaran : Editorial Board Member - Journal of Higher Education & Research Society (A Refreed International Journal ISSN- 2321-9432)

2) Dr.R.Pranesh Kumar : Editorial Board Member - Journal of English Language and Literature -JELAL - ISSN- 1111 - 1114

d) **any other (please specify):** Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Title	**Workshop/ Training Programs/ Seminar**	**Organized**	**Date, month & Year**	**Faculties participated**
Train the Trainer	**Training Program**	Infosys, Bangalore	December 2010	J.Sheila
Orientation Programme	**Training Program**	NICE, Kumaracoil	June 2007	J.Sheila
Train the Trainer	**Training Program**	Infosys, Bangalore	December 2010	G. Anand Binod Singh
Orientation Programme	**Training Program**	NICE, Kumaracoil		G. Anand Binod Singh
Deep Drive II	**Training Program**	Infosys, Thiruvanantha puram	2012	G. Anand Binod Singh

Train the Trainer	**Training Program**	Infosys, Bangalore	December 2010	M. Kohila
Orientation Programme		NIU	June 2011	M. Kohila
Intensive Training Programme on Aptitude and Reasoning	**Training Program**	NIU	2011	M. Kohila
Deep Drive I	**Training Program**	Trivandrum	2012	M. Rakesh Babu
. Orientation Programme		NIU		M. Rakesh Babu
Intensive Training Programme on Aptitude and Reasoning.	**Training Program**	NIU	2011	M. Rakesh Babu
Deep Drive II	**Training Program**	Infosys, Thiruvanantha puram	2013	M. Rakesh Babu
Deep Drive I	**Training Program**	Infosys, Thiruvanantha puram	2012	Dr. R. Pranesh Kumar
Orientation Programme	**Training Program**	NIU		Dr. R. Pranesh Kumar
Intensive Training Programme on Aptitude and Reasoning.	**Training Program**	NIU	2011	Dr. R. Pranesh Kumar
Deep Drive II	**Training Program**	Infosys, Thiruvanantha puram	2013	Dr. R. Pranesh Kumar

28. Student Project :

S.No	Year	Course	Project	Percentage
1	2014-2015	M.Phil	Dissertation	100
2	2014-2015	M.A.	Project	100
3	2013-2014	M.Phil	Dissertation	100
4	2012-13	M.Phil	Dissertation	100

29. Awards / recognitions received at the national and international level by :

Nil

30. Seminars / Conferences / Workshops Organized :

Sl.No.	Program	Topic	Grant Received	Date
(i)	Seminar	National Seminar On New Trends In English Language And Literature (Nastell-2014)	Self -Funded	April 30th, 2014

31. Code of ethics for research followed by the departments:

The research should encapsulate the essence of genuineness and explore areas hitherto neglected and unexplored in general and of relevance and validity in particular. The research initiated and undertaken should be fruitful to society by adding to existing knowledge and be beneficial to humanity at large. The Code of ethics for research is thus the quintessence and embodiment of the ethical principles and standards that govern the professional work of researchers.

32. Student profile programme-wise :

Name of the Programme (refer to question no. 4)	**Applications received**	**Selected** Male/ Female	**Pass percentage** Male / Female
M.Phil (2012-13)	12	Female -03 Male-01	25/75 %
M.Phil(2013-14)	52	Female -21 Male-04	18/82 %
M.Phil(2014-15)	61	Female -17 Male-09	38/62%
M.Phil(2015-16)	66	Male – 05 Female -26	17/83 %
M.A(2013-14)	24	Male – 1 Female -10	9/91 %
M.A(2014-15)	22	Male – 01 Female -10	9/91 %
M.A. (2015-16)	85	Male –09 Female -35	22/78 %
Ph.D. Full time	04	Male –1 Female -Nil	100/0 %
Ph.D. Part time	11	Male – 03 Female -03	50/50 %

33. Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Phil (2012-13)	0	100	Nil	0
M.Phil(2013-14)	0	85	15	0
M.Phil(2014-15)	0	80	20	0
M.Phil(2015-16)	2	100	100	0
M.A(2013-14)	0	100	Nil	0
M.A(2014-15)	0	78	10	0
M.A. (2015-16)	0	96	04	0
Ph.D. Full time	0	100	0	0
Ph.D.Part time	0	100	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

Nil

35. Student Progression :

Student progression	**Percentage against enrolled**
UG to PG	Nil
PG to M.Phil	18%
PG to Ph.D	0%
Ph.D. to post doctoral	Nil
Employed • Campus selection • Other than campus recruitment	 Nil 80%

36. Diversity of staff :

Percentage of faculty who are graduates	
of the same university	0
from other universities within the State	92%
from universities from other States	8%
from universities outside the country	0

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

S.No	Name of the Faculty	University	Awarded Year	Programme
1	Dr.M.Ilankumaran	Noorul Islam University	2013	Ph.D.
2	Dr.R.Pranesh Kumar	Manonmaniam Sundaranar University	2012	Ph.D.

38. Present details of departmental infrastructural facilities with regard to

a) Library

The department has a well furnished library. The details of the library are given below:

S.No	Items	Count
1	Books in Department Library	932
2	Dissertation Reports	53
3.	Thesis	01

b) Internet facilities for staff and students

The faculties and the students are provided with internet connectivity by means of MKN project from BSNL with a speed of 1 GBPS with which they can access the resources 24x7.

c) Total number of class rooms

There are 3 class rooms in the Department.

d) Class rooms with ICT facility:

Nil

e) Students' laboratories :

Nil

f) Research laboratories :

Nil

39. List of doctoral, post-doctoral students and Research Associates
a) from the host institution/university
b) from other institutions/universities

PART TIME RESEARCH SCHOLARS					
Sl. No	Batch	Name of the Scholar	Address of the Scholar	Title of Research Topic	Name of the Supervisor
1	August 2010	Mr. A.Khaleel Rahuman Reg. No.0109912202 (Internal)	Dept. of English NICHE Mobile No. 9486507559	Perceptions of Patriarchy : A Study of the Select Novels of Thomas Hardy and	Dr.P.Venugopalan Professor Dept. of English Noorul Islam University
2	August 2012	Ms .R.Abilasha Reg. No. 0113912201 (Internal)	Dept. of English NICHE Mobile No. 7598225001	Developing Communicative Competence in English Among the Engineering Students of Ruaral And Semi-Urban Areas in	Dr.M.Ilankumaran Associate Professor, Dept. of English Noorul Islam University
3	July 2015	Ms. P.Deepa Reg. No.15101070013 (Internal)	Dept. of English NICHE Mobile No. 9994850845	Developing English Communication Skills through Literature – A Study with Reference to	Dr.M.Ilankumaran Associate Professor, Dept. of English Noorul Islam University
4	January 2011	Ms. V.S.Bindhu Reg. No.011191220 2	Dept. of English NICHE Mobile No. 944364135	Entrapment , Alienation and Isolation in Anita	Dr.R.Pranesh Kumar, A.P. , Dept. of English Noorul Islam

5	August 2011	Mr. G.Anand Binod Singh Reg. No.0111912201 (Internal)	Assistant Professor Dept. of English NICHE Mobile No. 9994588	Colonialism , Culture, Religion and Reason in the Select Novels of Amitav	Dr.P.Venugopalan Professor Dept. of English Noorul Islam University
6	January 2011	Mr.M.Rakesh Babu. (External)	Dept. of English NICHE Mobile No. 9543440488	Symptom of Identity Crisis : A Reading of Sharom Pollock and	Dr. Pramila Professor of English K ottayam University,Kottayam , Kerala

40. Number of post graduate students getting financial assistance from the university :

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

Yes. The need for contribution from external experts has been recognized. In the formation of the curriculum and syllabi of M.Phil. English and M.A. English Literature programmes, distinguished experts and veteran professors from other universities and colleges have been invited to frame an innovative curriculum and syllabi of the Programmes and their knowledge and expertise utilised .

42. Does the department obtain feedback from :

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

No

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. No negative feedback has been received regarding teaching-learning-evaluation process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

No negative feedback regarding the programme offered by alumni. Library visit has been implemented in the interest of the M.Phil. and M.A. students on suggestion from alumni and it proves to be productive , contributing and very useful to the students in their studies and dissertation work.

43. List the distinguished alumni of the department (maximum 10):

Nil

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Program: **Workshop: Nil**

	Special Lectures :		
Sl.No.	Invitee	Title	Date
(i)	Dr. B. Manivannan Associate Professor Dept. of English V.O.Chidambaram College of Arts and Science, Thoothukkudi, Tamil Nadu	Taste Cultivation	17-09-2014
(ii)	Dr. Jebamalai Vinanchiarachi Former UNO Employee Thiruvanandahapuram , Kerala State	Language Proficiency and Personality Development	07-10-2014

45. List the teaching methods adopted by the faculty for different programmes :

- Traditional chalk & talk method
- ICT Enabled Teaching
- Problem solving sessions
- OHP
- Smart Class Room Sessions
- Audio And Video Sessions

46. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Programme objectives are constantly met by upgrading the syllabi according to present day needs. Learning Outcomes are monitored by continuous internal assessment tests, classroom interaction, feedback, class committee meeting, programme committee meeting etc.

47. Highlight the participation of students and faculty in extension activities:

Nil

48. Give details of "beyond syllabus scholarly activities" of the department :

Beyond Syllabus Activities are taken up by the Literary Association of the Department wherein Guest Lectures on important literary giants of English Literature and areas of literature and similar activities are held.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Accredited by International Accreditation Organization,
ISO 9001:2008 Certified Institution (Certified by S.T.Q.C., Ministry of Communication and Information Technology, Govt.of India)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Innovative Student Projects with new ideas as part of curriculum
- Making students a part of the research ambience of the department

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strengths

- Department offers M.A., M.Phil. and Ph.D. (Full Time and Part Time) courses
- Soft Skills Courses like Career Skills and Presentation Skills offered to II and III Year B.E./B.Tech. Programmes, M.Sc. Software Engineering and MCA
- Well-qualified ,experienced and dedicated faculty
- Number of Ph.D. degree holders is 5 (out of 14) and number of staff pursuing Ph.D is 6.
- Foreign Language courses in French, German and Japanese

Weaknesses

- No separate Smart Class Room for the Department
- The Library infrastructure facility of the Department is to be improved.
- No of computers and clerical support staff inadequate
- absence of funded projects
- Lack of Audio–visual Aids exclusively for the department

Opportunities

- Establishment of Full-Fledged Research Center
- To aspire and strive for UGC Research and Project Grants
- Training for New Technology awareness
- To design courses that would benefit society more in future

- To organize International Seminars and Conferences based on areas of global importance today as well as pertaining to literature

Challenges

- Uplifting of students who have little mettle and low performance in their previous academic performances
- The infrastructure and research facilities development to be on par with national and international standards
- To create awareness about personality development and soft skills programmers of the department and encourage students to take up the course with interest is a challenge.
- To place competent students in reputed institutions and create for them a challenging as well as satisfying career
- To encourage students from various other colleges to enroll for higher studies in our department

52. Future plans of the department :

i. To convert the Department into a full-time Research Centre
ii. To equip the Department classrooms with full-fledged ICT Enabled
iii. Teaching Learning Aids
iv. Upgrading the Department Library to a full-fledged library which can cater to the research requirements of scholars
v. To get projects from funded agencies

DECLARATION AND COMPLIANCE CERTIFICATES

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)
Kumaracoil-629180, Thuckalay, Kanyakumari District., Tamilnadu
Ph: 04651-250467, Mobile: 9444022063
E-Mail: info@niceindia.com website: www.niceindia.com

Prof. Dr.R.Perumalsamy
Vice Chancellor

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the Peer team visit.

Place : Kumaracoil
Date : 17-09-2015

Signature of the Head of the Institution with seal:

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)
Kumaracoil-629180, Thuckalay, Kanyakumari District., Tamilnadu
Ph: 04651-250467, Mobile: 9444022063
E-Mail: info@niceindia.com website: www.niceindia.com

Prof. Dr.R.Perumalsamy
Vice Chancellor

Statement of Compliance

(Deemed Universities)

This is to certify that **Noorul Islam Centre for Higher Education**, a Deemed to be University has complied with all the provisions of the following Regulations governing it:

* UGC (Institutions Deemed-to-be-Universities) Regulations 2010 and further amendments, notified by the UGC.

*DEC approval for distance education programme.

*Approved by the UGC and MHRD for main campus, off-campus and off-shore-as applicable.

Any false or misleading information provided by the institution, will be viewed seriously by NAAC and the accreditation given is liable to be withdrawn.

Date: 17-09-2015

Name and signature with seal
of the Vice Chancellor

ANNEXURE - I



தமிழ் நாடு
எண் : 3274
நாள் : 14.6.2005
மு. : 20 ரூ.

எஸ். [illegible]
முத்திரை [illegible]
உரிமம் எண். 21/97
A.P. மஜீதிகனி
குமரகோவில்

Memorandum of Association

1. Name :

The Name of the Society shall be "Noorul Islam Centre for higher Education", herein after referred to as "the Institute". As soon as the "Noorul Islam College of Engineering" is conferred the status of Deemed to be University, the "Deemed University" will be called and known as "Noorul Islam Centre for higher Education (NICE)".

All the movable and immovable assets of the "Noorul Islam College of Engineering" stands in the name of newly formed Society.

2. Office :

The Registered office of the Institute shall be situated in 10/47A, Hajee Manzil, Kollenvilai, Thuckalay, Kanyakumari District, Tamil Nadu

3. Objectives :

The objectives for which the Institute is established are :

a. to provide for instruction and training in such branches of learning like various disciplines in Engineering & Technology , Management, Applied Science, Medical Sciences, Dental Science and Para Medical Sciences, etc. as it may deem fit.
b. to provide for research and for the advancement of and dissemination of knowledge.
c. to undertake extra mural studies, extension programmes and field outreach activities to contribute to the development of society.
d. to do all such other acts and things as may be necessary or desirable to further the objectives of the Institute.

4. Powers and Functions of the Institute

To carry out the above objectives and for the management of properties, the Institute shall have the following powers :

i. to establish courses of study and research and to provide instruction in such branches of study as the Institute deems appropriate for the advancement of learning and dissemination of knowledge in such branches.

ii. to confer Degrees and to grant Diplomas and/or Certificates to persons who have satisfactorily completed the approved courses of study and/or research as may be prescribed and shall have passed the prescribed examinations;

iii. to institute and award visitorship, fellowship, exhibits, prizes and medals;

iv. to conduct Young Student Scientist Adoption Programme (YSSAP) throughout the state

v. to impart free Computer Education for School Children hailing from Rural areas

vi. to promote Research activities in socially relevant areas like prediction of Tsunami, Earthquake etc.

5. Interpretation of the Objectives

The Institute is established for public benefit and accordingly the objectives of the Institute as set forth above will be interpreted and restricted to mean such objectives and purposes as are regarded in law to be a public charitable institute in nature.

6. Institute Open to All

(ii) The Institute shall be open to all persons of whatever race, religion, creed, caste, class and geographical area of the country. No test or condition shall be imposed as to religious belief or occupation in admitting or appointing members, students, teachers, workers or in any other connection whatsoever.

(iii) No capitation fee shall he charged in any-form in consideration for admission.

(iv) In the case of self-financing institutions, fees to be prescribed shall be as per regulations prescribed under the UGC Act, Section 26 (l)(i).

(v) No benefaction that involves conditions and obligations opposed to the spirit and objects of the Institution shall be accepted by the Institute.

7. Admissions

Admissions shall be made on an all India basis to the identical courses in all deemed to be universities through a common entrance test conducted either by the University Grants Commission or by an Institution/Agency identified and approved by the UGC. This shall apply also to those institutions, which have already been given the deemed to be university status.

8. Income And Property of the Institute to be applied for the Objectives Only

The income and property of the Institute, howsoever derived, shall be applied towards the promotion of the objectives as set forth in this Memorandum of Association.

2nd page correction: Nil

9. Income and property of the Institute not to be paid or transferred by way of profit.

NO portion of the income and property of the Institute shall be paid or transferred directly or indirectly by way of profit, to the persons, who at any time, or have been members of the Institute or to any of them, provided that nothing herein contained shall prevent the payment in good faith or remuneration to any member thereof or other person in return for any service rendered to the Institute or far travelling, halting and other similar charges.

10. Management of the Institute

The names and addresses and occupations of the first members of the Board of Management to whom under rules, the management of the institute is entrusted till the various authorities in accordance with the rules are constituted, are given below as required under the Societies Registration Act, 1975

Sl.No Name	Address	Occupation	Designation
1. Dr. A.P. Majeed Khan	10/47 A, Hajee Manzil Kollenvilai, Thuckalay Kanyakumari District, Tamil Nadu	Chairman	President
2. Mr.M.S.Faizal	-do-	Researcher	Vice-President
3. Mr.M.M. Ali	23-53, Makkapalayam Mettukadai, Thuckalay, K.K. Dist.	Social Worker	Executive Committee
4. Mr.Mohamed Abdul Khader	NILSHAD, RV Puram, Near P.D. Pillai Mandapam, Cape Road, Nagercoil	Teacher	Executive Committee
5. Dr.Shafeek Salim	Lecester Shire, M.M.Road, Calicut	Doctor	Joint Secretary
6. Mrs.S.Ansa Shabnam	Asoka, Pattom, Trivandrum	Interior Decorator	Treasurer
7. Mrs.Saifunnisa	Vellemkulam, Aralumoodu, Trivandrum.	House Wife	Secretary

Witness :-

1. Mr.K.A.Janardhanan	"Rohini", Aryambacode Kulasekharam, K.K. Dist.

11. Review & Inspection

The Central. Government/UGC shall have the right to cause an inspection to be made of the Institute, its buildings, laboratories, its examinations, teaching and other work conducted or done by the Institute; and to cause an enquiry to be made, if considered necessary by the Central Government/UGC, in respect of any matter of the Institution (deemed to be university).

3rd page correction : Nil

Annexure - I

Following the inspection, the Central Government/UGC may issue, directions, to the Institution (deemed to be university) which shall be binding on the Institution (deemed to be university).

In case, the Institution (deemed to be university) fails to comply with the direction(s) of the Central Government/UGC and/or fail to perform as per expectations of the Central Government/UGC, the deemed to be university status conferred on the Institution can be withdrawn by the Central Government on the recommendation of the UGC.

We the undersigned on 1-4-2005 requested that the society called Noorul Centre for Higher Education may please be registered as a society under the Tamil Nadu societies Act 1975.

Sl. No	Name	Designation	Signature
1.	Dr. A.P. Majeed Khan	President	Sd/-
2.	Mr.M.S.Faizal	Vice-President	Sd/-
3.	Mr.M.M. Ali	Executive Committee	Sd/-
4.	Mr.Mohamed Abdul Khader	Executive Committee	Sd/-
5.	Dr.Shafeek Salim	Joint Secretary	Sd/-
6.	Mrs.S.Ansa Shabnam	Treasurer	Sd/-
7.	Mrs.Saifunnisa	Secretary	Sd/-

Witness

Mr.K.A.Janardhanan

4 th page correction: Nil

No. of Society : 79/2005

Name of society : Noorul Islam Centre for Higher Education

Name of document : Memorandum

serial No. 1/05

Date of Registration : 14.6.05

Sd.

Registrar

/True copy/

5 th last page correction : Nil

Total corrections : Nil

prepared by :

Examined by { Reader :
Examiner :

22605

சங்கங்களின் பதிவாளர்

கன்னியாகுமரி (இ) நாகர்கோவில்.

Application No: 14/05

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Annexure - I

20 Rs.





தமிழ் நாடு
எண் : 3276
நாள் : 14-6-2005
ரூ. : 20 பை. -

எஸ். கோபால கிருஷ்ணன்
முத்திரைத்தாள் விற்பனையாளர்
குமரி
உரிமம் எண். 21/97
A.P. முஹம்மது இஸ்மாயில்

Rules of the Institute

1. Short Title

These, rules shall be called, the rules of the " Noorul Islam Centre for higher Education" – a Deemed to be University

2. Address of the Institute

a. The registered office of the Institute shall be situated at : 10/47A, Hajee Manzil, Kollenvila Thuckalay, Kanyakumari District, Tamil Nadu. With in the Jurisdiction of District Registrar Kanyakumari.

b. Date of formation – 01.04.2005

3. Definitions (to be in alphabetical order)

In these Rules unless the Context otherwise requires :

Annexure - I

a. "Academic Council" means the Academic Council of the Institute.

b. "Authorities" means the authorities of the Institute.

c. "Board of Management" means the Board of Management of the Institute.

d. "President" means President of the Institute. (Equivalent to Chancellor of a University)

e. "Central Govt." means the Govt. of India.

f. "Vice-Chancellor" means Vice-Chancellor of the Institute.

4. Authorities of the Institute

The following shall be the authorities of the Institute :

1. President
2. Board of Management
3. Academic Council
4. Planning and Monitoring Board
5. Finance Committee
6. Advisory Committee
7. Such other authorities as may be declared by the bye-laws to be authorities of the Institute

5. Powers & Composition of the Board of Management

The Board of Management shall be the principal organ of management in the Institute. It shall be a compact and homogenous body enabling it promptly to take and implement well considered decisions and to effectively handle crisis situations.

a. Powers

The Board of Management shall be the principal executive body of the Institute and shall, in addition to all powers vested in it have the following powers namely :

i) To manage and administer the revenues and properties of the Institute and to conduct all administrative affairs of the Institute not otherwise specifically provided for.

ii) To create teaching and academic posts, to determine number, qualifications and cadres thereof as approved by the University Grants Commission and the emoluments of such posts in consultation with the Finance Committee.

iii) To appoint such Professors, Associate Professors, Readers, Asstt. Professors, Lecturers and other academic, staff as may be necessary on the recommendation of the Selection Committee.

iv) To lay down the duties and conditions of service of the Professors, Associate Professors, Asstt. Professors and other academic staff maintained by the Institute, in consultation with the Academic council,

v) To provide for appointment of Visiting Fellows and Visiting Professors.

2nd page correction : Nil

vi) TO create administrative, ministerial and other necessary posts in terms of the cadres laid down or otherwise and to make appointment thereof in consultation with the Finance Committee.

vii) To grant leave of absence to the Vice-Chancellor or any other officer of the Institute and to make necessary arrangements for carrying on the functions of the officers proceeding on leave during their absence.

viii) To regulate and enforce, discipline among the employees of the Institute and to take appropriate disciplinary action, wherever necessary.

ix) To manage and regulate the finance, accounts, investments, property and all other administrative affairs of the Institute and for that purpose to appoint such agent or agents as it may deem fit.

x) To entertain and adjudicate upon and, if thought fit, to redress any grievances of the employees and students of the Institute

xi) To select an emblem and to have, a common seal for the Institute and to provide for the custody and use of such seal.

xii) To institute, Fellowships, including Travelling, Fellowships, Scholarships, Studentships, Medals and Prizes in accordance with the bye-laws to be framed for the purpose.

xiii) To amend and receive payment of fees and other charges.

xiv) To appoint such committees for such purpose and with such powers as the Board of Management may think fit and to co-opt such persons on these committees as it thinks fit.

xv) To appoint Auditors for the ensuing year.

xvi) To open account or accounts of the Institute with any one or more scheduled banks and to lay-down the procedure for operating the same.

xvii) To manage the Finances accounts, investments, moveable properties, business and all other administrative affairs of the Institute.

xviii) To issue appeals for funds for carrying out the objectives of the Institute and consistent with the provisions of the objectives clause of the Institute, to receive grants, donations, contributions, gifts, prizes, scholarships, fees and other moneys, to give grants and donations, to award prizes, scholarships etc.

xix) To purchase, take on lease or accept as gift or otherwise any land or buildings or works which may be necessary or convenient for the purpose of the Institute, and, on such terms and conditions as it may deem fit and proper and to construct or alter and maintain any such buildings or works.

xx) To draw and accept and make and endorse discount and negotiate Government of India and other promissory notes, bills and exchange, cheques or other negotiable instruments.

xxi) To transfer or accept transfers of any moveable property on behalf of the Institute.

xxii) To advise the Holding Trustees (if any) on matters regarding acquisition, management and disposal of any immovable property on behalf of the Institute.

xxiii) To provide building or buildings, premises, furniture, fittings, equipment, appliances and other facilities required for carrying on the work of the Institute.

3rd page correction: Nil

Annexure - I

xxiv) To execute in consultation with the Holding Trustees (if any) conveyance, transfer, Government Securities, re-conveyances, mortgages, leases, bonds, licenses and agreements in respect of property, moveable or immovable belonging to the institute or to be acquired for the purposes of the Institute.

xxv) To appoint, in order to execute an instrument or transact any business of the Institute, any person as attorney of the Institute with such powers as it may deem fit.

xxvi) In consultation with the Holding Trustees (if any), to raise and borrow money on bonds, mortgages, promissory notes or other obligations or securities founded or based on any of the properties and assets of the Institute or without any securities and upon such terms and conditions as it may think fit and to pay out of the funds of the Institute, all expenses, incidental to the raising of money and to repay and redeem any money borrowed.

xxvii) To invest the funds of the Institute or money entrusted to the Institute in or upon such securities and in such manner as it may deem fit and from time to time transpose any investment.

xxviii) To maintain a fund to which shall be credited :

a. All moneys provided by the Central or State Governments/University Grants Commission.
b. All fees and other charges received by the Institute.
c. All moneys received by the Institute as grants, gifts, donations, benefactions, bequest or transfers and
d. All money received by the Institute in any other manner or from any other source.

xxix) To deposit all moneys credited to the fund in scheduled banks or to invest them in consultation wilh the Finance Committee.

xxx) To maintain proper accounts and other relevant records and prepare Annual Statements of Accounts including the Balance-sheet for every previous financial year, in such, form as may be prescribed by the Regulations/Bye-laws.

xxxi) To constitute for the benefit of the teaching, academic, technical, administrative, and other staff, in such manner and subject to such conditions as may be prescribed by the Rye-laws such pension, insurance, provident fund and gratuity as it may deem fit for the benefit of the employees of the institute and to aid in the establishment and support of Association, Institutions, Funds, Trusts, and conveyances calculated to benefit the staff and the students of the Institute.

xxxii) To delegate all or any of its powers to any committee or sub-committee constituted by it or the Vice-Chancellor of the Institute or any other person,

xxxiii) To establish, on the advice of the Academic Council Divisions and Departments far the academic work and functions of the Institute and to allocate areas of Study, Teaching and Research, to them.

xxxiv) To conduct examinations or tests for admission to the courses taught in the institute to conduct examinations for Degrees and diplomas and to declare the results of such

4 th page correction Nil

examinations and tests and to confer, grant or award Degrees, Diplomas^ Certificates and other academic titles and distinctions.

xxxv) To establish, maintain and manage hostels for the students of the Institute.

xxxvi) To fix the emoluments and travelling and other allowances of examiners, moderators, tabulators and such other personnel appointed for examinations in consultation with the Academic Council and the Finance Committee.

xxxvii) To recognise and maintain control and supervision on hostels, owned and managed by other agencies for the students of the Institute and to rescind such recognition.

xxxviii) The Board of Management shall be the principal executive body of the Institute and shall have the powers to take all necessary decisions for the smooth and efficient functioning of the Institute.

(b) Composition of the Board of Management

The Board of Management shall consist of :-

1. Vice-Chancellor ... .Chairman
2. Deans of Faculties (if any) not exceeding three by rotation and on seniority.
3. Three nominees of the President of the Institute.
4. One nominee of the Chairman, UGC
5. One nominee of the Government of India
6. One nominee of the funding agency/agencies.
7. Three Teachers (Professor, Reader, Lecturer) (by rotation) according to seniority
8. One nominee of the sponsoring Society
9. The Registrar shall be the non-Member Secretary,

Note :- (The Chairman of the Board of management shall ordinarily be the Vice-Chancellor of the Institute. However, while suggesting the. composition of the Board of Management, alternate proposals for appointment of a Chairman of the Board could be made).

(c) Terms of Membership

All the members of the above, body other than ex-officio and the members of the teaching staff shall hold office for a term of three years and shall be eligible for reappointment.

Members of teaching staff in the above body shall hold office for a period of 2 years or till such time as they continue to be members of the teaching staff, whichever is less.

(d) Meetings of the Board of Management

(i) The Board of Management shall meet atleast four times a year. Not less than 15 days notice shall be given of a meeting of the Board of Management and a copy of the proceedings of each meeting shall be furnished to the President of the Institute as soon as possible after the meeting.

5 th page correction : Nil

(ii) Each member of the above Body including its Chairman shall have one vote, and decisions at the meeting of the Board shall be taken by simple majority. In case of a tie the Chairman shall have a casting vote.

(iii) Every meeting of the above Body shall be presided over by its Chairman, and in his absence by a member chosen by the members present from amongst themselves shall preside over the meeting.

(iv) Any business which it may be necessary for the above Body to perform may be carried out by circulating appropriate resolution thereon among its members and any resolution so circulated and approved by a simple majority shall be as effective and binding as if such resolution had been passed at the meeting of the Board.

If a member other than the Vice-chancellor or those representing the teachers accepts a full time appointment in the Institute or he does not attend three consecutive meetings of the Board of Management without proper leave of absence, he shall cease to be a member of the above Body.

6. Constitution of Standing Committee and Appointment of Ad-Hoc Committee by the Board of Management

(i) Subject to the provision of the Rules/Bye-laws of the institute, the Board of Management may by a resolution constitute such standing Committee or co-Committee or Ad-hoc Committee or Committees for such purposes and with such powers as the Board may think fit for exercising any power or powers or discharging any functions of the Institute or for inquiring into reporting and advising upon any matter of the Institute.

(ii) The Board of Management may co-opt such persons on the standing Committees or ad-hoc Committees as it may consider suitable.

7. Delegation of Powers of the Board of Management

The Board of Management may by a resolution, delegate to the President, Vice-Chancellor or any other officer of the Standing Committee or the Ad-hoc Committee such of its powers as it may deem fit, subject to the condition that the action taken by the President or the Vice-Chancellor or the officer concerned or the Standing Committee or the Ad-hoc Committee concerned in the exercise of the powers so delegated shall be reported at the next meeting of the Board of Management,

8. Academic Council

The Academic Council shall be the principal academic body of the Institute and shall, subject to the provisions of the Memorandum of Association and the Rules and Bye-laws shall have the control over and be responsible for the maintenance of standards of education, teaching^ and training, inter-departmental co-ordination, research, examinations and tests within the Institute and shall exercise such other powers and perform such other duties and functions as may be prescribed or conferred upon it by the Rules and Bye-laws.

(a) Membership of the Academic Council

(i) The Academic Council shall consist of the following persons, namely :

6 th page correction : Nil

(a) Vice-Chancellor of the Institute ....Chairman

(b) Dean of Faculties, if any

(c) Heads of the Departments of the Institute

(d) Ten Professors other than the Heads of the Departments (by rotation and on seniority)

(e) Three. Readers from the Departments other than the Heads of the Departments by rotation in the order of seniority nominated by the Vice-Chancellor

(f) Three Lecturers from the Departments by rotation in the order of seniority nominated by the Vice-Chancellor.

(g) Three persons from amongst educationists of repute or persons from any other field related to the activities of the Institute who are not in the service of the Institute, nominated by the President.

(h) Three persons who are not members of the teaching staff co-opted by the Academic Council for their specialised knowledge.

The term of members other than ex-officio members shall be two years. They shall not be eligible further unless every one has completed one term.

Note : The representation of different categories should be only through rotation and not through election. It may also be ensured that no particular faculty dominates the membership of the council.

(b) Powers and Functions of the Academic Council

The Academic Council shall be the principal academic body of the Institute and shall, in addition to all other powers, and duties vested in it, have the following powers and duties viz :

a. to exercise general supervision over the academic work of the Institute and to give direction regarding methods of instructions, evaluation or research or improvements in academic standards.

b. to promote research within the Institute, acquire reports on such researches from time to time.

c. to consider matters of academic interest either on its own initiative or at the instance of the Board of Management and to take proper action thereon.

d. to make arrangements for the conduct of examinations in conformity with the bye-laws.

e. to maintain proper standards of the examinations.

f. to recognise diplomas and degrees of Universities and other Institutions and to determine equivalence with the diplomas and degrees of the Institute.

g. to prescribe courses of study leading to degrees and diplomas of the Institute.

h. To appoint examiners, moderators, tabulators and such other personnel for different examinations.

i. To suggest measures for departmental co-ordination.

7 th page correction Nil

j. To make recommendations to the Board of Management on :

1. Measures for improvement of standards of teaching, training and research.
2. Institution of Fellowships, Travelling Fellowships, Scholarships, Medals, Prizes etc.
3. Establishment or abolition of departments/centres and
4. Bye-laws covering the academic functioning of the Institute, discipline, residence, admissions, examinations, award of fellowships and studentships, freeships, concessions, attendance etc.

k. to appoint sub-committees to advise on such specific matters as may be referred to it by the Board of Management.

l. To consider the recommendations of the sub-committees and to take such action (including making of recommendations to the Board of Management) as the circumstances on each case may require.

m. To take periodical review of the activities of the Departments/Centres and to take appropriate action (including making of recommendations to the Board of Management) with a view to maintaining and improving the standards of instruction.

n. To exercise such other powers and perform such other duties as may be conferred or imposed upon it by the rules and bye-laws.

o. To recommend institution of Teaching posts, Professors, Readers, and Lecturers to the Board of Management.

(c) Meeting of the Academic Council

i The Academic Council shall meet as often as may be necessary but not less than three times during the academic year.

ii. One third of the total members of the Academic Council shall constitute the quorum for the meeting of the Academic Council.

iii. Any business which it may be necessary for the Academic Council to perform except such as may be placed before its meeting, may be carried out by circulation of the resolution among all its members and the resolution so circulated and approved by a simple majority shall be effective and binding as if such resolution had been passed in the meeting of the Academic Council, provided that atleast one half of the total number of the members of the Academic Council have recorded their views on the Resolution.

9. Finance Committee

the finance Committee shall consist of the following members :

i. Vice-Chancellor of the Institute - Chairman.
ii. A person nominated by the President.
iii. Two nominees of the Board of Management, one of whom shall be a member of the Board.
iv. A representative of the UGC.
v. A representative of the Central Govt./State Govt.

8 th page correction : Nil

(a) Terms of Office of the Members of the Finance Committee

All members of the Finance Committee other than ex-officio members shall hold office for a term of three years.

(b) Powers and Functions of the Finance Committee

(a) The Finance Committee shall meet atleast twice a year to Examine the accounts and to scrutinise proposals for expenditure.

(b) The annual accounts and financial estimates of the Institute shall be placed before the Finance Committee for consideration and thereafter submitted to the Board of Management together with the comments of the Finance Committee for approval.

(c) The Finance Committee shall fix limits of the total recurring expenditure and the total non recurring expenditure of the year based on the income and resources of the Institute. No expenditure shall be incurred by the Institute in excess of the limits so fixed.

(d) No expenditure other than that provided in the budget shall be incurred by the Institute without the approval of the Finance Committee.

(e) To recommend to the Board of Management the creation of all types of posts.

10. Advisory Committee

For a period of first ten years the institution will have an Advisory Committee under the Chairmanship of a person nominated by the Commission from among members of the Commission including Vice Chairman. The Advisory Committee, will include the Head of the Institution and its senior faculty alongwith one/two experts nominated by the UGC to help its academic planning and growth.

10. Planning & Monitoring Board

The Planning & Monitoring Board shall be the principal Planning Body of the Institute and shall be responsible for the monitoring of the development programmes of the Institute.

The Vice-Chancellor of the Institute shall be the Chairman of the Planning & Monitoring Board It may include six or seven internal members and a few outside experts, including one nominee of the UGC.

The constitution, powers and functions of the Planning & Monitoring Board shall be prescribed by the Bye-laws.

The Planning & Monitoring Board would have the right to advise the Board of Management and the Academic Council on any matter which it considers necessary for the fulfillment of the objectives of the Institute.

The recommendations of the Planning & Monitoring Board shall be placed before the Board of Management for consideration and approval. Proposals relating to academic matters may be processed through the Academic Council.

9th page correction : Nil

12. Selection Committee

I. There shall be a Selection Committee for making recommendations to the Board of Management for appointment to the posts of Professors, Associate professors and Asstt. Professors in the Institute and such other posts as may be prescribed by the Bye-laws.

II. Every selection Committee shall consist of the following members

(a) **For Appointment of Professors**

i. Vice-Chancellor of the Institute as Chairman.
ii. A person nominated by the President.
iii. Dean of Faculty/Head of the Deptt /Chairman, Board of Studies, provided he is a Professor,
iv. Three outside experts nominated by the President from a panel of not less than six names recommended by the Academic Council and approved by the Board of Management.

(c) **For Appointment** of **Readers and** Lecturers

i Vice-Chancellor -Chairman.
ii A person nominated by the President of the Institute.
iii. Dean of Faculty/Head of the Deptt./Chairman, Board of Studies, provided he is a Professor, or Reader.
iv. Two outside experts nominated by the President from a panel of not less than six names recommended by the Academic Council and approved by the Board of Management.

III Meetings

(a) The meetings of the Selection Committee will be convened by the Chairman of the Selection Committee as and when necessary.
(b) Four members of the Selection Committee shall form the quorum, consisting, of atleast two experts.
(c) If the Board of Management is unable to accept the recommendations of the Selection Committee, it shall record its reasons about it and submit the case to the President whose decision shall be Final in the matter.

13. Board of Studies

I. There shall be one Board of Studies for each Department of the Institute.

II. The Board of Studies of each Department shall consist of:

(a) Head of the Department ..... Chairman
(b) All Professors of the Department.
(c) Two Readers of the Department by rotation according to seniority.
(d) Two Lecturers of the Department by rotation according to seniority.
(e) Not more than 2 persons to be co-opted for their expert knowledge including those belonging to the concerned profession or industry.

The powers and functions of the Board of Studies shall be prescribed by the Bye-laws of the Institute.

14. Grievance Redressal Machinery

For individual grievance and complaint, every Institution shall have a Grievance Redressal Machinery as may be prescribed in the Bye-laws.

10 th page correction: Nil

15. Officers of the Institute

The following shall be the officers of the Institute :

i. Vice-Chancellor
ii. Registrar
iii. Finance Officer and such other officers as may be prescribed in the Bye-laws.

(a) President

The Institute shall have a President who by virtue of his office be the Head of the Institute and shall when present preside over the convocations of the Institute. He shall be appointed by the sponsoring Society/Govt. and shall hold office for a period of 3 years.

Where power is conferred upon the President to nominate persons to authorities, the President shall to the extent necessary nominate persons to represent the various interests for the furtherance of the objectives of the institute.

i. The President has absolute powers in the conduct of the Institute.

ii. The President has full authority to avail loan for conducting courses, constructing Buildings and purchasing machineries etc. in any of the areas of learning as specified above under the Institute

iii. It is made known that the President shall have the option to alter, rectify and add to this memorandum and rules of the Institute anything which the President deems necessary in the working of the Institute amending or altering the clauses of this Deed. Under intimation to the UGC Income Tax and other mandatory organization

iv. The President shall have the right to alienate the properties of the Insitute for the benefit of the Institute or purchase properties for the Institute.

The President shall operate the accounts of the Trust with any Bank / Organization and shall have powers to avail loans from any financial institutions and accept contributions or gifts or donations for the Trust.

v. The Institute shall have a Minutes Book to record the proceedings and resolutions of the Institute. The Board of members shall meet at least twice in a year, preferably before the commencement of academic year and closure of the academic year. The Institute may make rules in the conduct of various courses as may be necessary or expedient.

vi. Proper accounts of all transactions receipts and expenditure etc. shall be maintained correctly and accurately.

vii. The accounts shall be audited by two members of the Board nominated by the President.

viii. The President shall preside over all the meetings of the Institute Governing Body.

ix. The following will be Memorandum of Association / Rules of the Institute

For the purpose Sec. 15 (1) of the Tamilnadu societies Registration Act the committee shall consist of 4 members. Apart from Dr.A.P.Majeed Khan who is the President the other three members are (1) Mr.M.S.Faizal, (2) Mr.M.M.Ali (3) Mr.Mohammed Abdul Kadar.

11 th page correction: Nil

(b) Vice-Chancellor

The Vice-Chancellor shall be a whole time salaried officer of the Institute and shall be appointed by the President from a panel of three names suggested by a Search Committee The composition of the above Committee would be –

i A nominee of the President of the Institute.
ii. A nominee of the State Government/Central Government.
iii. A nominee of the Chairman, UGC.

Provided further that if the President does not approve of any of these persons so recommended he shall call for a fresh panel.

The Vice-Chancellor shall hold office for a term of 5 years. He shall not be eligible for reappointment.

Provided that notwithstanding the expiry of the said period of 5 years, he can continue in office till his successor is appointed and assumes office, but not beyond six months.

Provided further that a person appointed as Vice-Chancellor shall retire from office during the tenure of his office of extension, thereof, if any, he completes the age of 65 years.

If the office of the Vice-Chancellor becomes vacant due to death, resignation or otherwise and in his absence due to illness or any other cause, the Dean or if there is no Dean, the senior most Professor shall perform the duties of Vice-Chancellor until a new Vice-Chancellor is appointed or as the case may be, the existing Vice-Chancellor resumes duties.

i) The Vice-Chancellor, shall be the Principal and executive officer of the Institute and shall exercise general supervision or control over the affairs of the Institute and implement the decisions of all the authorities of the Institute.

ii) The Vice-Chancellor may, if he is of the opinion that immediate action is called for on any matter exercise any power conferred upon any authority of the Institute under the Memorandum of Association and the Rules and Regulations/Bye-laws, take such action or proceed to take such action and shall report to the concerned authority on the action taken by him on such matters.

Provided that if the authority concerned as mentioned in clause (i) above is of the opinion that such action ought not to have been taken, it may refer the matter to the President whose decision thereon shall be final.

Provided further that any person in the service of the Institute is aggrieved by the action taken by the Vice-Chancellor under the said clause he shall have the right to appeal against such action to the Board of Management within 30 days from the date on which such action is communicated to him and thereupon the Board of Management may confirm, modify or reverse the action taken by the Vice-chancellor.

iii. The Vice-Chancellor, unless otherwise provided, shall be the Ex-officio Chairman of the Board of Management, the Academic Council and the Finance Committee.

iv. It shall be the duty of the Vice-Chancellor to ensure that the Memorandum of Association, the Rules, Bye-laws and Regulations of the Institute are duly observed and implemented and he shall have all the necessary powers in this regard.

12 th page correction. Nil

v. The Vice-Chancellor shall exercise general control over the affairs of the Institute and shall be mainly responsible for implementation of the decisions of the various authorities of the Institute

vi. All powers relating to the proper maintenance and discipline of the Institute shall be

vii. vested in the Vice-Chancellor

viii. The Vice-Chancellor shall exercise such other powers and perform such other functions as may be prescribed by the Rules and Bye laws and Regulations.

ix. The Vice-Chancellor shall exercise all other powers as may be delegated to him by the Board of Management.

x. The Vice-Chancellor shall have the power to re-delegate some of his powers to any of his subordinate officers with the concurrence and approval of the Board of Management.

xi. The Vice-Chancellor shall have the power to convene or cause to be convened meetings of the various bodies of the Institute.

(c) Head of the Department

i. There shall be a Head of the Department for each of the Departments in the Institute who shall be appointed by the Vice-Chancellor from amongst the Professors of the Department.

ii. Provided that if there is no Professor in the Department the Vice-Chancellor may appoint a Reader as Head of the Department.

iii. The term of appointment of the Head of the Department shall normally be 3 years and he shall be eligible for reappointment for one more term.

iv. The powers and function of the Head of the Department shall be prescribed by the bye-laws of the Institute.

(d) Registrar

(a) The Registrar shall be a whole-time salaried officer of the Institute and shall be appointed by the Board of Management on the recommendations of the Selection Committee consisting of the. following :-

i. Vice-Chancellor Chairman.

ii. One nominee of the President of the Institute.

iii. One nominee of the Board of Management.

iv. One expert appointed by the Board of Management who is not an employee of the Institute.

(b) The emoluments and other terms and conditions of service of the Registrar shall be as may be prescribed by the Bye-laws.

(c) When the office of the Registrar is vacant or when the Registrar is absent by reason of illness or any other reason the duties and functions of the Registrar shall be performed by such other person as the Vice Chancellor may appoint for the purpose.

(d) The Registrar shall be ex-officio Secretary of the Board of Management, the Academic Council, Planning and Monitoring Board but shall not be deemed to be a member of any of these authorities.

(e) The Registrar shall be directly responsible to the Vice-Chancellor of the Institute.

(f) The following shall be the duties of the Registrar

i. To be Custodian of the records, the funds of the Institute and such, other property of the Institute as the Board of Management may commit to his charge.

ii. To conduct the official correspondence on behalf of the authorities of the Institute.

iii. To issue notices convening meetings of the authorities of the institute and all Committees and Sub-Committees appointed by any of these authorities.

13 th page correction: Nil

iv. To keep the minutes of the meetings of all the authorities of the Institute and of all the committees and sub-committees appointed by any of these authorities.
v. To make arrangements for and supervise the examinations conducted by the Institute.
vi. To represent the Institute in suits or proceeding by or against the Institute sign powers of attorney and perform pleadings or depute his representatives for this purpose.
vii. To enter into agreement, sign documents and authenticate records on behalf of the institute.
viii. To hold in special, custody books and documents of the Institute.
ix. To safeguard and maintain the buildings, gardens, office, canteen, cars and other vehicles, laboratories, libraries, reading rooms, equipment and other properties, of the Institute.
x. To perform such other duties as may be specified in the Rules and Bye-laws or as may be specified by the Board of management or the Vice-chancellor from time to time.

(e) Finance Officer

The Finance Officer shall be whole time salaried officer of the Institute and shall be appointed by the Board of Management preferably on deputation from a panel of names submitted by the State Govt./Central Govt. The emoluments and other terms and conditions of service of the Finance Officer shall be as may be prescribed by the Bye-laws.

The Finance Officer shall work under the supervision of the Vice-Chancellor and is accountable to the Board of Management through the Vice-Chancellor. He would be the Ex-officio non-Member Secretary of the Finance Committee. He would be an advisor to the Vice-Chancellor for financial matters.

Subject to the control of the Board of Management to manage properly and investment of the institute, he shall be responsible for the preparation of annual estimates and statements of account for submission to the Finance Committee and the Board of Management.

16. Seniority List

(a) Whenever in accordance with these Rules, any person is to hold an office or to be a member of an authority of the Institute by rotation according to seniority, such seniority shall be determined, according to the length of the continuous service of such person in grade and in accordance with such other principles as the Board of Management may from time to time prescribe.

(b) It shall be the duty of the Registrar to prepare and maintain in respect of each class of persons to whom the provisions of these rules apply, a complete and up-to-date seniority list in accordance with the provisions of the foregoing clause.

(c) If two or more persons have equal length of continuous service in a particular grade or the relative seniority of any person or persons is in doubt, the Registrar may on his own notion and shall at the request of any such person, submit the matter to the Board whose decision shall be final.

17. Delegation of Powers

Subject to the provisions of these Rules and Bye-laws any officer or authority of the Institute may delegate his or its power to any other officer or authority or person under their respective control and subject to the conditions that the overall responsibility for exercise of the powers so delegated shall continue to rest in the officer or Authority delegating such powers.

14 th page Correction : Nil

18. Dispute as to Membership

If any question arises, whether any person has been duly elected or appointed as or is entitled to be a member of any authority or any Committee to the Institute, the matter shall be referred to the President of the Institute, whose, decision thereon shall be final.

19. Right of Central Government to Inspect the Institution

i) The Government of India, shall have the right to cause an inspection to be made by such person or persons as it may direct, of the Institute, its buildings, fixtures and fittings, laboratories and equipment as also examinations, teaching and other work carried on or done by the Institute and, if necessary, to cause an inquiry to be made in respect of any matter connected with the administration or finances of the Institute.

ii) The Government of India, shall, in every case, give notice to the Institute of its intention to cause an inspection or inquiry to be made and on receipt of such a notice the Institute shall have the right to make such representations to the Government of India as it may consider necessary.

iii) Where an inspection or inquiry has been caused to be made by the Government of India the Institute shall be entitled to appoint a representative who shall have the right to be present and to be heard at such inspection or inquiry.

iv) The Government of India may communicate die result of such inspection or inquiry together with such advice as it may be pleased to offer as to the action to be taken by the Institute, to the Vice-Chancellor of the Institute who shall communicate the same to the Board of Management

v) The Board of Management shall give proper consideration to the said communication regarding the result of inspection or inquiry and the proposals for action by the Institute and communicate to the Government of India the action, if any, which it proposes to take or has taken upon the result of such inspection or inquiry

vi) Where the Board of Management does not within a reasonable time, take any action to the satisfaction of the Government of India, the Government of India may after giving due consideration to the explanation furnished or representation made by the Board of Management to it, issue such directions as it may think fit and the Board of Management shall comply with such directions.

20. Review of the Academic Activities of the Institute

i) The functions of the Institute shall be reviewed after a period of every 5 years or even earlier, if necessary, by a Committee appointed by the University Grants Commission.

ii) The report of the Committee shall be considered by the Commission. In the event of an adverse appraisal of the Institute, the Commission shall direct the Institute to take immediate remedial measures. In the event of non-compliance of the Commission's directions within the specified period as determined by-the UGC in this respect^ the Commission shall have the right to recommend to the Government of India for the revocation of the Notification issued earlier declaring an Institution as deemed to be university.

21. Resignation

Any member other than an ex-officio member of any authority may resign by a letter addressed to the Registrar and the resignation shall take effect as soon as it is accepted by the President as the case may be or the Chairman of the Board of Management.

15 th page correction: Nil

22. Acting Chairman of the Meetings

Where no provision is made for a Chairman to preside over a meeting of an authority of the Institute or any Committee of such authority, or if the Chairman so provided is absent, the members shall select one from amongst themselves to preside at such meeting.

23. Validation of Certain Acts, Decisions

No Act or proceedings of any authority or any body or any Committee of the Institute shall be invalid merely by reason of:

a) any vacancy therein or any defect in the constitution thereof; or
b) any defect in the nomination of appointment of a person acting as a member thereof; or
c) any irregularity in its procedure not affecting the merits of the case.

24. Disqualification

(a) A person shall be disqualified for having chosen as and for being a member of any of the authorities of the Institute.
   i. If he is of unsound mind or is deaf or mute:
   ii. If he is an undischarged insolvent.
   iii. If he has been convicted by a court of law of an offence involving moral turpitude.

(b) If any question arises as to whether a person is or has been subjected to any disqualifications mentioned above, the question shall be referred for decision to the President and his decision shall be final and no suit or proceeding shall lie in any civil court against such decision.

25. Filling of Casual Vacancies

Casual vacancies among the members (other than ex-officio members) of any authority or any other Committee of the Institute shall be filled as soon as it may be convenient by the person or the authority who appointed or co-opted the member whose place has become vacant and the person appointed or co-opted to a casual vacancy shall be member of such authority or Committee for the residual term for which the person whose place he fills would have been a member.

26. Bye-Laws

Subject to the provisions of the Memorandum of Association and the Rules and By-laws, the Board of Management shall in addition to all other powers vested in it, have the power to frame Bye-laws which may provide for all or any of the following matters :

(a) establishment of Departments of teaching and halls of residence;
(b) the admission of students to the Institute and their enrolment as such :
(c) the courses of study to be laid down for all degrees, diplomas and certificates of the Institute ;
(d) the grand of academic awards (such as degrees and diplomas) and distinctions ;
(e) the fees to be charged for courses of study in the institute and for admission to the examination, degrees, diplomas and certificates of the Institute.
(f) the institution of and prescription of the conditions of the award of fellowships, scholarships, studentships, medals and prizes ;
(g) the conduct of examinations,, appointment of examiners and approval and publication of results thereof ;"

16 th page correction: Nil

(h) the maintenance of discipline, among the students;
(i) the maintenance of discipline among the employees of the Institute ;
(j) the conditions of residence and health of students of the Institute;
(k) the classification, emoluments, method of appointment, and the determination of the terms and conditions of service of the teaching staff of the Institute ; (I) the constitution of pension, provident fund, insurance etc. for the benefit of the officers, teachers Academic Staff and the other staff of the Institute .
(m) the establishment of special centres ;
(n) the creation, composition and functions of any committees or body, which is considered necessary for the work of the Institute;
(o) the preparation and submission of budget estimates ;
(p) the procedure for convening of meeting of any authority or committee;
(q) the laying down of procedures to be observed at any meeting of any authority or any committees ;
(r) to constitute any other body as an authority of the Institute.
(s) all other matters which by this Memorandum or the Rules may be provided for by the Bye-Laws provided that no Bye-laws shall be made affecting the condition of residence, health of disciplines of student, admission or enrolment of students, conditions, mode of appointment or duties of examiners or the conduct or standard of examinations or any course of study without consulting the Academic Council.

27. Interpretation Clause

In the event of conflict of opinion with regard to interpretation of Memorandum of Association or the Rules and Bye-laws, the opinion of the UGC shall be final.

28. Income and Property of the Institute to be Utilised for its object only

The income and property of the Institute howsoever derived shall be utilised solely for promoting the objects of the Institute as set out in this Memorandum of Association.

29. Bar on Payment of Transferring of the Income and Property of the Institute by way of Profit

No portion of the income and property of the Institute shall be paid or transferred directly or indirectly, by way of dividend, bonus or otherwise howsoever by way of profit to the persons who were at any time or are members of the Institute or to any of them or any persons claiming through them or any of them provided that nothing herein contained shall prevent the payment in good faith of remuneration to any member thereof or other person as consideration for any service rendered to the Institute or for travelling or other allowances and such other charges,

30. Adjustment of Income and Property on Dissolution of the Institute

After, on the winding up or dissolution of the Institute there shall remain after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid or distributed among the members of the Institute or any of them but shall be transferred to the Institute, or other bodies in consultation with the agencies concerned who have helped in creation of those assets.

31. Legal Proceedings

i. Societies Registration Act, 1975, the person in whose name the Institute may sue or be sued shall be the Registrar.

17 th page correction : Nil

ii. No suitor legal proceedings shall lie against the Central Government or UGC or the Institute or an Officer of the Institute or a member of the authority of the Institute in respect of anything done or purported or intended to be done in pursuance or any article of Memorandum of Association or the Rules of Bye-laws made there under.

32. Alteration, Amendments, and Additions in the Rules

The Rules and Bye-laws of the Institute may be altered, amended and added to by the Board of Management in accordance with the provision of the Societies Registration Act, 1975, as in force for the time being provided any such alterations, amendments and additions in the Rules of the Institute shall become effective only after the receipt of concurrence of the Government of India.

33. Funds, Accounts, Audits and Annual Report

(i) The funds of the Society shall be utilised solely for the purpose of the Society.

(ii) The accounts of the Institute shall be maintained in the name of the Institute and not in the name of a particular trust or Society whether financing or sponsoring the Institute or hot. The accounts of the Institute shall be kept in such forms as may be laid down by the Board of Management and shall conform to the rules, if any, prescribed by the University Grants Commission/the Government of India. The accounts of the Institute will be open to examination by the Comptroller and Auditor General of the Government of India.

(iii) All funds belonging to the Institute or under the control of the Board of Management, shall be shown separately in the accounts of the Institute.

(iv) Annual Reports and the Audit Reports shall be submitted to the Government of India within nine months of the closure of the accounting year for the purpose of being laid down on the table of the Parliament.

(v) The accounts of income and expenditure as also the annual financial statement and annual accounts shall be audited by the Comptroller and Auditor General of India through the Accountant General of the State concerned.

34. Annual General Body Meeting

The annual general body meeting shall be covered in the month of September every year in which the audited receipt and expenditure account and balance for the preceding financial shall be placed for approval. The financial year shall be from 1st April to 31st March.

Sl. No	Name	Designation	Signature
1.	Dr. A.P. Majeed Khan	President	Sd/-
2.	Mr.M.S.Faizal	Vice-President	Sd/-
3.	Mr.M.M. Ali	Executive Committee	Sd/-
4.	Mr.Mohamed Abdul Khader	Executive Committee	Sd/-
5.	Dr.Shafeek Salim	Joint Secretary	Sd/-
6.	Mrs.S.Ansa Shabnam	Treasurer	Sd/-
7.	Mrs.Saifunnisa	Secretary	Sd/-

Witness :-

1.	Mr.K.A.Janardhanan	"Rohini", Aryambacode Kulasekharam, K.K. Dist.	Sd/-

Annexure - I

18 th page correction: Nil

No. of society : 79/2005

Name of society : Noorul Islam Centre for Higher Education

Name of document : Bye Law

Serial No. 2/05

Date of filing : 14.6.05

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Registrar

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சங்கங்களின் பதிவாளர்
கன்னியாகுமரி (இ) நாகர்கோவில்.

Application No: 14/05

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சங்கங்களின் பதிவாளர்
கன்னியாகுமரி (இ) நாகர்கோவில்.

Annexure - I

ANNEXURE - II

Noorul Islam Centre for Higher Education-NAAC SSR

रजिस्ट्री सं. डीएल(एन)-04/0007/2003--05

REGISTERED No. DL(N)-04/0007/2003—05



भारत का राजपत्र
The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

विषय-सूची

भाग I—खण्ड-1—(रक्षा मंत्रालय को छोड़कर) भारत सरकार के मंत्रालयों और उच्चतम न्यायालय द्वारा जारी की गई विधितर नियमों, विनियमों, आदेशों तथा संकल्पों से सम्बन्धित अधिसूचनाएं 1

भाग I—खण्ड-2—(रक्षा मंत्रालय को छोड़कर) भारत सरकार के मंत्रालयों और उच्चतम न्यायालय द्वारा जारी की गई सरकारी अधिकारियों की नियुक्तियों, पदोन्नतियों, छुट्टियों आदि के सम्बन्ध में अधिसूचनाएं 1

भाग I—खण्ड-3—रक्षा मंत्रालय द्वारा जारी किए गए संकल्पों और असांविधिक आदेशों के सम्बन्ध में अधिसूचनाएं 1

भाग I—खण्ड-4—रक्षा मंत्रालय द्वारा जारी की गई सरकारी अधिकारियों की नियुक्तियों, पदोन्नतियों, छुट्टियों आदि के सम्बन्ध में अधिसूचनाएं ... 1

भाग II—खण्ड-1—अधिनियम, अध्यादेश और विनियम ..... *

भाग II—खण्ड-1क—अधिनियमों, अध्यादेशों और विनियमों का हिन्दी भाषा में प्राधिकृत पाठ ..... *

भाग II—खण्ड-2—विधेयक तथा विधेयकों पर प्रवर समितियों के बिल तथा रिपोर्ट ..... *

भाग II—खण्ड-3—उप खण्ड (i)—भारत सरकार के मंत्रालयों (रक्षा मंत्रालय को छोड़कर) और केन्द्रीय प्राधिकरणों (संघ शासित क्षेत्रों के प्रशासनों को छोड़कर) द्वारा जारी किए गए सामान्य सांविधिक नियम (जिनमें सामान्य स्वरूप के आदेश और उपविधियां आदि भी शामिल हैं)..... *

भाग II—खण्ड-3—उप खण्ड (ii)—भारत सरकार के मंत्रालयों (रक्षा मंत्रालय को छोड़कर) और केन्द्रीय प्राधिकरणों (संघ शासित क्षेत्रों के प्रशासनों को छोड़कर) द्वारा जारी किए गए सांविधिक आदेश और अधिसूचनाएं..... *

भाग II—खण्ड-3—उप खण्ड (iii)—भारत सरकार के मंत्रालयों (जिसमें रक्षा मंत्रालय भी शामिल है) और केन्द्रीय प्राधिकरणों (संघ शासित क्षेत्रों के प्रशासनों को छोड़कर) द्वारा जारी किए गए सामान्य सांविधिक नियमों और सांविधिक आदेशों (जिनमें सामान्य स्वरूप की उपविधियां भी शामिल हैं) के हिन्दी प्राधिकृत पाठ (ऐसे पाठों को छोड़कर जो भारत के राजपत्र के खण्ड 3 या खण्ड 4 में प्रकाशित होते हैं)..... *

भाग II—खण्ड-4—रक्षा मंत्रालय द्वारा जारी किए गए सांविधिक नियम और आदेश ..... *

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भाग III—खण्ड-3—मुख्य आयुक्तों के प्राधिकार के अधीन अथवा द्वारा जारी की गई अधिसूचनाएं ..... *

भाग III—खण्ड-4—विधिक अधिसूचनाएं जिनमें सांविधिक निकायों द्वारा जारी की गई अधिसूचनाएं, आदेश, विज्ञापन और नोटिस शामिल हैं 1

भाग IV—गैर-सरकारी व्यक्तियों और गैर-सरकारी निकायों द्वारा जारी किए गए विज्ञापन और नोटिस 1

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*आंकड़े प्राप्त नहीं हुए।

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01-07-2015
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Department of Publication
Civil Lines, Delhi-54

Annexure - II

Noorul Islam Centre for Higher Education-NAAC SSR

मानव संसाधन विकास मंत्रालय
(उच्चतर शिक्षा विभाग)

नई दिल्ली, दिनांक 8 दिसम्बर 2008

सं. एफ. 9-51/2004-यू.3--

जबकि केन्द्र सरकार को विश्वविद्यालय अनुदान आयोग की सलाह पर किसी उच्चतर अध्ययन संस्था को विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की धारा 3 के तहत "समविश्वविद्यालय" के रूप में घोषित करने का अधिकार प्राप्त है!

2. और जबकि नुरुल इस्लाम इंजीनियरी कालेज, कुमारकोइल, थकले, कन्याकुमारी जिला, तमिलनाडु से एक प्रस्ताव प्राप्त हुआ था जिसमें समविश्वविद्यालय का दर्जा देने का अनुरोध किया गया है;

3. और जबकि विश्वविद्यालय अनुदान आयोग ने उक्त प्रस्ताव की जांच की है और अपने दिनांक 11 अगस्त, 2008 के पत्र संख्या एफ. 6-2/2005(सीपीपी-I) के द्वारा नुरुल इस्लाम उच्चतर शिक्षा केन्द्र, कुमारकोइल, थकले को पांच वर्ष के बाद समीक्षा की शर्त के अधीन 'सम-विश्वविद्यालय' का दर्जा प्रदान करने की सिफारिश की है;

4. अब विश्वविद्यालय अनुदान आयोग की सलाह पर केन्द्र सरकार विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की धारा 3 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए एतदद्वारा घोषणा करती है कि "नुरुल इस्लाम उच्चतर शिक्षा केन्द्र", कुमारकोइल, थकले, कन्याकुमारी जिला, तमिलनाडु उपर्युक्त अधिनियम के उद्देश्यार्थ निम्नलिखित शर्तों को पूरा करने की शर्त के अधीन पांच वर्ष की अवधि के लिए अनंतिम "सम-विश्वविद्यालय संस्था" होगा :

(i) नुरुल इस्लाम उच्चतर शिक्षा केन्द्र, कुमारकोइल, थकले, कन्याकुमारी जिला (तमिलनाडु) स्थित "नुरुल इस्लाम इंजीनियरी कालेज" को अपनी शिक्षण संघटक यूनिट के रूप में शामिल करेगा;

(ii) उपर्युक्त घोषणा के तहत नुरुल इस्लाम इंजीनियरी कालेज के केवल उन अकादमिक पाठ्यक्रमों/कार्यक्रमों को ही शामिल किया जाएगा जो अखिल भारतीय तकनीकी शिक्षा परिषद (ए.आई.सी.टी.ई.) से अनुमोदित हो;

(iii) नुरुल इस्लाम उच्चतर शिक्षा केन्द्र संबंधित संबंधन विश्वविद्यालय अर्थात अन्ना विश्वविद्यालय, चेन्नई/तिरुनेल्वेली से नुरुल इस्लाम इंजीनियरी कालेज का संबंधन समाप्त होने की तारीख से "सम-विश्वविद्यालय" होगा;

(iv) नुरुल इस्लाम उच्चतर शिक्षा केन्द्र को प्रदान किए गए दर्जे की पाँच वर्ष की अवधि के बाद समीक्षा की जाएगी।

9—391 GI/2008

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Department of Publication
Civil Lines. Delhi-54

Annexure - II

5. विशेषज्ञ समिति के माध्यम से विश्वविद्यालय अनुदान आयोग द्वारा की गई समीक्षा तथा इसके संबंध में विश्वविद्यालय अनुदान आयोग की सिफारिश के आधार पर पाँच वर्ष की अवधि के बाद नुरूल इस्लाम उच्चतर शिक्षा केन्द्र को प्रदान किए गए दर्जे की पुष्टि की जाएगी;

6. उपर्युक्त पैरा 4 में की गयी उद्घोषणा उन शर्तों को पूरा करने/अनुपालन करने के अधीन भी है जिनका उल्लेख इस अधिसूचना के पृष्ठांकन 4 में किया गया है।

7. न तो भारत सरकार और न ही विश्वविद्यालय अनुदान आयोग नुरूल इस्लाम उच्चतर शिक्षा केन्द्र अथवा इसकी किसी अंगीभूत शिक्षण यूनिट को योजनागत और योजनेतर के रूप में कोई सहायता अनुदान प्रदान करेंगे।

सुनिल कुमार
संयुक्त सचिव

Attested 01-07-2015
Asstt. Controller (Business)
Govt of India
Department of Publication
Civil Lines, Delhi-54

Noorul Islam Centre for Higher Education-NAAC SSR

मानव संसाधन विकास मंत्रालय
(उच्चतर शिक्षा विभाग)

नई दिल्ली, दिनांक 8 दिसम्बर 2008

सं. एफ. 9-51/2004-यू.3--

जबकि केन्द्र सरकार को विश्वविद्यालय अनुदान आयोग की सलाह पर किसी उच्चतर अध्ययन संस्था को विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की धारा 3 के तहत "समविश्वविद्यालय" के रूप में घोषित करने का अधिकार प्राप्त है!

2. और जबकि नुरूल इस्लाम इंजीनियरी कालेज, कुमारकोइल, थकले, कन्याकुमारी जिला, तमिलनाडु से एक प्रस्ताव प्राप्त हुआ था जिसमें समविश्वविद्यालय का दर्जा देने का अनुरोध किया गया है;

3. और जबकि विश्वविद्यालय अनुदान आयोग ने उक्त प्रस्ताव की जांच की है और अपने दिनांक 11 अगस्त, 2008 के पत्र संख्या एफ. 6-2/2005(सीपीपी-I) के द्वारा नुरूल इस्लाम उच्चतर शिक्षा केन्द्र, कुमारकोइल, थकले को पांच वर्ष के बाद समीक्षा की शर्त के अधीन 'सम-विश्वविद्यालय' का दर्जा प्रदान करने की सिफारिश की है;

4. अब विश्वविद्यालय अनुदान आयोग की सलाह पर केन्द्र सरकार विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की धारा 3 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए एतदद्वारा घोषणा करती है कि "नुरूल इस्लाम उच्चतर शिक्षा केन्द्र", कुमारकोइल, थकले, कन्याकुमारी जिला, तमिलनाडु उपर्युक्त अधिनियम के उद्देश्यार्थ निम्नलिखित शर्तों को पूरा करने की शर्त के अधीन पांच वर्ष की अवधि के लिए अनंतिम "सम-विश्वविद्यालय संस्था" होगा :

(i) नुरूल इस्लाम उच्चतर शिक्षा केन्द्र, कुमारकोइल, थकले, कन्याकुमारी जिला (तमिलनाडु) स्थित "नुरूल इस्लाम इंजीनियरी कालेज" को अपनी शिक्षण संघटक यूनिट के रूप में शामिल करेगा;

(ii) उपर्युक्त घोषणा के तहत नुरूल इस्लाम इंजीनियरी कालेज के केवल उन अकादमिक पाठ्यक्रमों/कार्यक्रमों को ही शामिल किया जाएगा जो अखिल भारतीय तकनीकी शिक्षा परिषद (ए.आई.सी.टी.ई.) से अनुमोदित हो;

(iii) नुरूल इस्लाम उच्चतर शिक्षा केन्द्र संबंधित संबंधन विश्वविद्यालय अर्थात अन्ना विश्वविद्यालय, चेन्नई/तिरुनेल्वेली से नुरूल इस्लाम इंजीनियरी कालेज का संबंधन समाप्त होने की तारीख से "सम-विश्वविद्यालय" होगा;

(iv) नुरूल इस्लाम उच्चतर शिक्षा केन्द्र को प्रदान किए गए दर्जे की पाँच वर्ष की अवधि के बाद समीक्षा की जाएगी।

9—391 GI/2008

Attested
01-07-2015
Asstt. Controller (Business)
Govt. of India
Department of Publication
Civil Lines. Delhi-54

Annexure - II

Noorul Islam Centre for Higher Education-NAAC SSR

MINISTRY OF HUMAN RESOURCE DEVELOPMENT
(DEPARTMENT OF HIGHER EDUCATION)

New Delhi, the 8th December 2008

No. F. 9-51/2004-U.3—

Whereas the Central Government is empowered under Section 3 of the University Grants Commission (UGC) Act, 1956 to declare, on the advice of the UGC, an Institution of Higher Learning as an "Institution Deemed-to-be-University".

2. And whereas, a proposal was received from Noorul Islam College of Engineering, Kumaracoil, Thuckalay, Kanyakumari District, Tamil Nadu seeking status of 'Deemed-to-be-University';

3. And whereas, the University Grants Commission (UGC) has examined the said proposal and vide its communication bearing F.No.6-2/2005(CPP-I) dated the 11th August, 2008 has recommended conferment of status of 'deemed to be university' to Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay subject to review after five years;

4. Now, therefore, in exercise of the powers conferred by Section 3 of the UGC Act, 1956, the Central Government, on the advice of the UGC, hereby declare "Noorul Islam Centre for Higher Education", Kumaracoil, Thuckalay, Kanyakumari District, Tamil Nadu, as an "Institution Deemed-to-be-University", for the purposes of the aforesaid Act, provisionally for a period of five years, subject to the following conditions:

(i) The Noorul Islam Centre for Higher Education shall comprise "Noorul Islam College of Engineering" located at Kumaracoil, Thuckalay in Kanyakumari District (Tamil Nadu), as its constituent teaching unit;

(ii) The declaration as made above shall cover only those academic courses/programmes of the Noorul Islam College of Engineering that are approved by the All India Council for Technical Education (AICTE);

(iii) The Noorul Islam Centre for Higher Education shall become an "Institution Deemed-to-be-University" with effect from the date of disaffiliation of Noorul Islam College of Engineering from the respective affiliating university, viz., Anna University, Chennai/Tirunelveli;

(iv) The status conferred on Noorul Islam Centre for Higher Education shall be reviewed after a period of five years.

5. The status conferred on the Noorul Islam Centre for Higher Education shall be confirmed after a period of five years on the basis of review to be conducted by the UGC through an Expert Committee, and recommendation of the UGC thereof;

Attested

01-07-2015
Asstt. Controller (Business)
Govt. of India
Department of Publication
Civil Lines, Delhi-54

Annexure - II

6. The declaration as made in para 4 above is further subject to fulfillment / compliance of the conditions mentioned at Sr. No.4 of the endorsement to this Notification;

7. Neither the Government of India nor the UGC shall provide any Plan or Non-Plan grant-in-aid to Noorul Islam Centre for Higher Education or its constituent unit.

SUNIL KUMAR
Joint Secy.

01-07-2013

Attested Asstt. Controller (Business)
Govt. of India
Department of Publication
Civil Lines. Delhi-54

प्रबंधक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित एवं प्रकाशन नियंत्रक, दिल्ली, द्वारा प्रकाशित 2009
PRINTED BY THE MANAGER, GOVT. OF INDIA PRESS, FARIDABAD AND PUBLISHED BY THE CONTROLLER OF PUBLICATION, DELHI, 2009

ANNEXURE - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Southern/1-2456180476/2015/EOA Date: 07-Apr-2015

To,
The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2456180476
		Permanent Id	1-10525271
Name of the Institute	NOORUL ISLAM COLLEGE OF ENGINEERING	Institute Address	NOORUL ISLAM COLLEGE OF ENGINEERING KUMARACOIL TEMPLE ROAD KALKULAM VILLAGE THUCKALAY KANYAKUMARI DISTRICT, THUCKALAY, KANYAKUMARI, Tamil Nadu, 629180
Name of the Society/Trust	NOORUL ISLAM EDUCATIONAL TRUST	Society/Trust Address	10/47 A, HAJI MANZIL, KOLLANVILAI,,THUCKALAY,KANYAKUMARI,Tamil Nadu,629175
Institute Type	Deemed University(Private)		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456180476			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	AERONAUTICAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	APPLIED ELECTRONICS	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	AUTOMOBILE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Thuckalay (Kanyakumari)	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATION SYSTEMS	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER INTEGRATED MANUFACTURING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONTROL AND INSTRUMENTATION	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456180476			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CYBER SECURITY	FULL TIME	Noorul Islam Centre for Higher Education, Thuckalay (Kanyakumari)	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	NANO TECHNOLOGY	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	THERMAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AERONAUTICAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AERO SPACE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456180476			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AIRCRAFT MAINTENANCE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AUTOMOBILE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	BIOMEDICAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456180476			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	90	90	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	FIRE TECHNOLOGY & SAFETY	FULL TIME	Noorul Islam Centre for Higher Education, Thuckalay (Kanyakumari)	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MARINE ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	NANO TECHNOLOGY	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456180476			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION (HUMAN RESOURCE MANAGEMENT)	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Noorul Islam Centre for Higher Education, Kanyakumari	60	60	NA	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that NOORUL ISLAM COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Avinash S Pant
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Shastri Bhawan 26, Haddows Road
   Chennai - 600 006, Tamil Nadu

Note: This is a Computer generated Letter of Approval.No signature is required. Letter Printed On:13 April 2015

Printed By : AE9110171

Annexure - III

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

2. **The Director Of Technical Education,**
   Tamil Nadu

3. **The Registrar,**
   Noorul Islam Centre for Higher Education, Thuckalay (Kanyakumari)

4. **The Principal / Director,**
   NOORUL ISLAM COLLEGE OF ENGINEERING
   NOORUL ISLAM COLLEGE OF ENGINEERING
   KUMARACOIL TEMPLE ROAD
   KALKULAM VILLAGE
   THUCKALAY
   KANYAKUMARI DISTRICT,
   THUCKALAY,KANYAKUMARI,
   Tamil Nadu,629180

5. **The Secretary / Chairman,**
   NOORUL ISLAM EDUCATIONAL TRUST
   10/47 A, HAJI MANZIL, KOLLANVILAI,,
   THUCKALAY,KANYAKUMARI,
   Tamil Nadu,629175

6. **Guard File(AICTE)**

Annexure - III

ANNEXURE - IV

FRANK & CO
CHARTERED ACCOUNTANTS
KALLUVEETTIL TEENU CENTRE
82, COURT ROAD, NAGERCOIL - 629 001, INDIA
OFF : (04652) 231889, 230504
FAX : (04652) 232085
RES : (04651) 230504, 230604
Email : franknco@gmail.com

Ref. Fc IN-71427

FORM NO. 10B
[See rule 17B]
Audit report under section 12A(b) of the Income-tax Act, 1961, in the case of charitable or religious trusts or institutions

We have examined the balance sheet of NOORUL ISLAM CENTRE FOR HIGHER EDUCATION – THUCKALAY [name of the trust or institution] as at 31/03/2015 and the Income and Expenditure Account for the year ended on that date which are in agreement with the books of account maintained by the said Trust or institution.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of the audit. In our opinion, proper books of account have been kept by the head office and the Nil branches of the above named institution visited by us so far as appears from our examination of the books, and proper Returns adequate for the purposes of audit have been received by us, subject to the comments given below:

In our opinion and to the best of our information, and according to information given to us, the said accounts give a true and fair view-

(i) in the case of the balance sheet, of the state of affairs of the above named institution as at 31/03/2015 and

(ii) in the case of the Income and Expenditure Account, of the ~~profit or~~ loss of its accounting year ending on 31/3/2015

The prescribed particulars are annexed hereto.

Place: NAGERCOIL
Date: 03.09.2015

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

for **FRANK & CO**
Chartered Accountants

FRANKLIN FERNANDEZ FCA
Membership No.012517

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION – THUCKALAY
ACCOUNTING YEAR ENDED 31.03.2015

ANNEXURE
STATEMENT OF PARTICULARS

I. **Application of Income for charitable or religious purposes.**	
1. Amount of income of the previous year applied to charitable or religious purpose in India during that year	Rs. 36,26,86,577/-
2. Whether the trust / institution has exercised the option under clause (2) of the Explanation to Section 11 (1) If so, the details of the amount income deemed to have bee n supplied to charitable or religious purpose in India during the previous year.	No
3. Amount of income Accumulated or set apart / finally set apart for application to charitable or religious purposes, to the extent it does not exceed 15 percent of the income derived from property held under trust Wholly / in part only for such purposes	Nil
4. Amount of income eligible for exemption under Section 11 (1) (c) (Give details)	Nil
5. Amount of income, in addition to the amount referred to in item above, accumulated or set apart for specified purposes under section 11(2)	Nil
6. Whether the amount of income mentioned in item 5 above has been invested or deposited in the manner laid down in Sec 11 (2) (b)? If so, the details there of.	NOT APPLICABLE
7. Whether any part of the income in respect of which an option was exercised under clause (2) of the Explanation to section 11 (1) in any earlier year is deemed to be income of the previous year under section 1(B) ? If so, the details there of	No
8. Whether during the previous year, any part of income accumulated or set apart for specified purposes under section 11 (2) in any earlier year	No
a. has been applied for purposes other than charitable or religious purposes or has ceased to be accumulated or set apart for application thereto, or	No
b. has ceased to remain invested in any security referred to in sec 11 (2) (b) (i) or deposited in any account referred to in sec 11 (2) (b) (ii) or Sec 11 (2) (b) (iii), or	No
c. has not been utilised for purpose for which it was accumulated or set apart during the period for which it was to be accumulated or set apart, or in the year immediately following the expiry thereof? If so, details thereof.	No

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

II. Application of use of income or property for the benefit of persons referred to in Sec 13 (3)	
1. Whether any part of the income or property of the trust / institution was lent, or continuous to be lent, in the previous year to any person referred to in Sec.13 (3) (herein after referred to in his Annexure as such person) ? If so, give details of the amount, rate of interest charged and the nature of security if any	No
2. Whether any land, building or other property of the trust / institution was made, or continued to be made, available for use of any such person during he previous year? If so, give details of the property and the amount of rent or compensation charged, if any	No
3. Whether any payment was made to any such person during the previous year by way of salary allowance or otherwise? If so, give details	No
4. Whether the services of the trust / institution were made available to any such person during the previous year? If so, give details there of together with remuneration or compensation received, if any	No
5. Whether any share, security or other property was purchased by or on behalf of the trust / institution during the previous year from any such person? If so give details thereof together with consideration paid	No
6. Whether any share, security or other property was sold by or on behalf of the trust / institution during the previous year to any such person? If so, give details thereof together with the consideration received.	No
7. Whether any income or property of the trust / institution was diverted during the previous year in favour of any such person? If so, give details thereof together with the amount of income or value of property so diverted	No
8. Whether the income or property of the trust / institution was used or applied during the previous year for the benefit of any such person in any other manner? If so, give details	No

III. Investment held at any time during the previous year (s) in concerns in which persons referred to in Section 13 (3) have a substantial interest.

Sl. No.	Name and address of the Concern	Where the concern is a Company No. and class of Shares held	Nominal Value of the investment	Income from investment	Whether the amount in Col.4 exceeded 5 % of the capital of the concern during the previous year say Yes / No
1	2	3	4	5	6
			NIL		
Total					

Place: NAGERCOIL
Date: 03/09/2015

for **FRANK & CO**
Chartered Accountants

FRANKLIN FERNANDEZ FCA
Membership No.012517

Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

10-47A, HAJI MANZIL
KOLLENVILAI, THUCKALAY
KANYAKUMARI DIST

BALANCE SHEET AS AT 31st MARCH, 2015

Note No	LIABILITIES	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
1	CAPITAL ACCOUNT	348,384,625.76	358,620,404.17
2	LOANS AND ADVANCES	44,711,439.67	28,655,817.41
3	CURRENT LIABILITIES	46,486,995.22	37,880,143.83
	TOTAL	439,583,060.65	425,156,365.41
	ASSETS		
4	FIXED ASSETS	349,879,372.36	359,858,055.62
5	CURRENT ASSETS, LOANS AND ADVANCES:		
	1. Deposits	1,927,065.00	1,806,538.00
	2. Staff Advances	25,200.00	40,000.00
	3. Other Advances	11,849,744.00	1,153,500.00
	4. Cash and Bank Balances	75,792,922.29	62,291,151.79
	5. Tax Deducted at Sources	108,757.00	7,120.00
	TOTAL	439,583,060.65	425,156,365.41

03/09/2015
Nagercoil

VIDE OUR REPORT ATTACHED
FOR FRANK & CO
CHARTERED ACCOUNTANTS

FRANKLIN FERNANDEZ FCA
M. NO.012517

FRANK & CO
CHARTERED ACCOUNTANTS
NAGERCOIL

Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

10-47A, HAJI MANZIL
KOLLENVILAI, THUCKALAY
KANYAKUMARI DIST

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2015

Note No	EXPENDITURE	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
6	To Salary & Allowances	153,759,254.00	153,377,838.00
7	" Administrative Expenses	15,700,303.20	14,420,001.20
8	" Annual Day & Celebrations	943,260.50	1,438,415.00
9	" Bus Service Expenses	19,258,020.18	18,388,932.37
10	" Establishment Expenses	38,311,574.66	33,904,302.94
11	" Examination Expenses	9,099,456.00	6,685,526.50
12	" Expert Committee's Expenses	180,249.00	276,445.25
13	" Book Store	3,329,830.50	2,724,241.00
14	" Facilities to Students	9,252,729.00	1,689,722.50
15	" Promotional Expenses	237,600.00	57,671.00
16	" Repairs & Maintenance	5,715,750.00	6,704,334.50
17	" Research & Faculty Trainning	11,504,222.00	18,987,269.00
18	" Educational Welfare Activities	11,951,349.00	11,647,042.00
19	" Staff Welfare Expenses	8,527,816.00	8,069,550.00
20	" Hostel Expenses	42,238,262.00	36,366,011.00
4	" Depreciation	42,404,992.00	41,775,501.00
	" Excess of Income over Expenditure	-	3,037,518.38
	TOTAL	372,414,668.04	359,550,321.64
	INCOME		
21	By Fee Collection	271,699,942.00	278,783,393.00
22	" Projects Funds	6,542,486.00	5,346,378.00
23	" Hostel Income	48,110,512.45	43,642,838.00
24	" Annual Day & Celeberation Collection	503,750.00	486,250.00
25	" Other Receipts	20,784,660.18	17,161,037.64
26	" Exam Fee	14,537,539.00	14,130,425.00
	" Excess of Expenditure over Income	10,235,778.41	-
	TOTAL	372,414,668.04	359,550,321.64

03/09/2015
Nagercoil

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

VIDE OUR REPORT ATTACHED
FOR FRANK & CO
CHARTERED ACCOUNTANTS

FRANKLIN FERNANDEZ FCA
M. NO.012517

Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

10-47A, HAJI MANZIL
KOLLENVILAI, THUCKALAY
KANYAKUMARI DIST

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2015

Note No	RECEIPTS	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
	To OPENING BALANCES	62,291,151.79	73,825,694.86
21	" Fee Collection	271,699,942.00	278,783,393.00
22	" Projects Funds	6,542,486.00	5,346,378.00
23	" Hostel Income	48,110,512.45	43,642,838.00
24	" Annual Day & Celeberation Collection	503,750.00	486,250.00
25	" Other Receipts	20,784,660.18	17,161,037.64
26	" Exam Fee	14,537,539.00	14,130,425.00
27	" Loans & Advances:	36,753,107.00	20,248,701.00
28	" Sundry Creditors	11,772,616.00	3,845,989.07
29	" Staff Advances	14,800.00	7,000.00
30	" Other Advances	3,000.00	4,528,734.41
	" Mess Advance	2,037,100.55	6,097,742.00
	" Civil Service Coure Fee	17,500.00	-
	TOTAL	475,068,164.97	468,104,182.98
	PAYMENTS		
6	By Salary & Allowances	153,759,254.00	153,377,838.00
7	" Administrative Expenses	15,700,303.20	14,420,001.20
8	" Annual Day & Celebrations	943,260.50	1,438,415.00
9	" Bus Service Expenses	19,258,020.18	18,388,932.37
10	" Establishment Expenses	38,311,574.66	33,904,302.94
11	" Examination Expenses	9,099,456.00	6,685,526.50
12	" Expert Committee's Expenses	180,249.00	276,445.25
13	" Book Store	3,329,830.50	2,724,241.00
14	" Facilities to Students	9,252,729.00	1,689,722.50
15	" Promotion of Science	237,600.00	57,671.00
16	" Repairs & Maintenance	5,715,750.00	6,704,334.50
17	" Research & Faculty Trainning	11,504,222.00	18,987,269.00
18	" Educational Welfare Activities	11,951,349.00	11,647,042.00
19	" Staff Welfare Expenses	8,527,816.00	8,069,550.00
20	" Hostel Expenses	42,238,262.00	36,366,011.00
31	" Loans & Advances	20,697,484.74	13,323,553.62
32	" Sundry Creditors	5,129,365.16	10,850,437.26
33	" Other Advances	10,699,244.00	1,872,361.00
4	" Fixed Assets	32,426,308.74	64,756,757.05
	" Hostel Deposit	4,000.00	33,000.00
	" Caution Deposit	87,000.00	44,000.00
	" Tax Deducted at Sources	101,637.00	6,520.00
34	" Electricity Deposit	120,527.00	189,100.00
5.4	" Cash and Bank Balances	75,792,922.29	62,291,151.79
	TOTAL	475,068,164.97	468,104,182.98

03/09/2015
Nagercoil

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

VIDE OUR REPORT ATTACHED
FOR FRANK & CO
CHARTERED ACCOUNTANTS

FRANKLIN FERNANDEZ FCA
M. NO.012517

Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION - KUMARACOIL

SCHEDULE TO BALANCE SHEET AS AT 31-03-2015

Annexure - XV

NOTE No. 4

ASSETS : FIXED ASSETS

Sl No.	Name of the Assets	W.D.V. as on 01-04-2014	Additions during the year		Deletion	Total	Rate of Depreciation	Depreciation	W.D.V.as on 31-03-2015
			01.04.2014 to 30.09.2014	01.10.2014 to 31.03.2015					
			Addition	Addition less than 180 days					
		₹	₹	₹	₹	₹		₹	₹
1	LAND	35,860,021.00	-	-	-	35,860,021.00	-	-	35,860,021.00
2	BUILDINGS	203,795,282.40	6,833,475.00	5,053,290.00	-	215,682,047.40	10%	21,315,540.00	194,366,507.40
3	COMPUTER & SOFTWARE	2,163,817.00	224,150.00	1,014,487.74	93,600.00	3,308,854.74	60%	1,680,967.00	1,627,887.74
4	ELECTRONIC EQUIPMENTS	12,331,878.90	1,770,468.00	585,900.00	36,700.00	14,651,546.90	15%	2,153,790.00	12,497,756.90
5	FURNITURE & FITTINGS	32,869,202.00	3,382,622.00	1,733,580.00	-	37,985,404.00	10%	3,711,861.00	34,273,543.00
6	LAB EQUIPMENTS	8,736,615.10	18,120.00	-	-	8,754,735.10	15%	1,313,210.00	7,441,525.10
7	LIBRARY BOOKS	342,996.00	1,043,002.00	316,922.00	-	1,702,920.00	100%	1,544,459.00	158,461.00
8	MACHINERY & EQUIPMENTS	28,410,888.17	18,883.00	25,000.00	-	28,454,771.17	15%	4,266,341.00	24,188,430.17
9	MOTOR VEHICLE - ANNEXURE	20,012,762.00	-	1,952,749.00	120,292.00	21,845,219.00	15%	3,130,327.00	18,714,892.00
10	NANO EQUIPMENTS	4,933,644.00	-	-	-	4,933,644.00	15%	740,047.00	4,193,597.00
11	ROAD WORKS	4,485,543.00	-	-	-	4,485,543.00	10%	448,554.00	4,036,989.00
12	FIRE & SAFETY EQUIPMENTS	250,403.05	-	-	-	250,403.05	15%	37,560.00	212,843.05
13	CYBER SECURITY	487,930.00	-	-	-	487,930.00	15%	73,190.00	414,740.00
14	SATELITE CENTRE	5,177,073.00	7,463,547.00	1,240,705.00	-	13,881,325.00	15%	1,989,146.00	11,892,179.00
	TOTAL	359,858,055.62	20,754,267.00	11,922,633.74	250,592.00	392,284,364.36		42,404,992.00	349,879,372.36
	PREVIOUS YEAR	336,876,799.57	32,282,506.00	32,795,166.05	320,915.00	401,633,556.62		41,775,501.00	359,858,055.62

FRANK AIYAR & CO CHARTERED ACCOUNTANTS KUMARACOIL

Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION - KUMARACOIL

SCHEDULE TO BALANCE SHEET AS AT 31-03-2015

NOTE No. 4

ASSETS : FIXED ASSETS - GROSS BLOCK

Sl No.	Name of the Assets	Balance as on 01/04/2014	Additions during the year	Deletion	Balance as on 31/03/2015	Depreciation as on 01/04/2014	Depreciation during the year	Accumulated depreciation	W.D.V as on 31/03/2015
		₹	₹	₹	₹	₹	₹	₹	₹
1	LAND	35,860,021.00	-	-	35,860,021.00	-	-	-	35,860,021.00
2	BUILDINGS	300,685,187.40	11,886,765.00	-	312,571,952.40	96,889,905.00	21,315,540.00	118,205,445.00	194,366,507.40
3	COMPUTER & SOFTWARE	17,833,511.00	1,238,637.74	93,600.00	18,978,548.74	15,669,694.00	1,680,967.00	17,350,661.00	1,627,887.74
4	ELECTRONIC EQUIPMENTS	22,018,437.90	2,356,368.00	36,700.00	24,338,105.90	9,686,559.00	2,153,790.00	11,840,349.00	12,497,756.90
5	FURNITURE & FITTINGS	45,661,957.00	5,116,202.00	-	50,778,159.00	12,792,755.00	3,711,861.00	16,504,616.00	34,273,543.00
6	LAB EQUIPMENTS	13,431,700.10	18,120.00	-	13,449,820.10	4,695,085.00	1,313,210.00	6,008,295.00	7,441,525.10
7	LIBRARY BOOKS	4,923,396.00	1,359,924.00	-	6,283,320.00	4,580,400.00	1,544,459.00	6,124,859.00	158,461.00
8	MACHINERY & EQUIPMENTS	57,087,540.17	43,883.00	-	57,131,423.17	28,676,652.00	4,266,341.00	32,942,993.00	24,188,430.17
9	MOTOR VEHICLE	37,738,443.00	1,952,749.00	120,292.00	39,570,900.00	17,725,681.00	3,130,327.00	20,856,008.00	18,714,892.00
10	NANO EQUIPMENTS	8,760,419.00	-	-	8,760,419.00	3,826,775.00	740,047.00	4,566,822.00	4,193,597.00
11	ROAD WORKS	6,152,152.00	-	-	6,152,152.00	1,666,609.00	448,554.00	2,115,163.00	4,036,989.00
12	FIRE & SAFETY EQUIPMENTS	270,706.05	-	-	270,706.05	20,303.00	37,560.00	57,863.00	212,843.05
13	CYBER SECURITY	549,955.00	-	-	549,955.00	62,025.00	73,190.00	135,215.00	414,740.00
14	SATELITE CENTRE	5,721,476.00	8,704,252.00	-	14,425,728.00	544,403.00	1,989,146.00	2,533,549.00	11,892,179.00
	TOTAL	556,694,901.62	32,676,900.74	250,592.00	589,121,210.36	196,836,846.00	42,404,992.00	239,241,838.00	349,879,372.36
	PREVIOUS YEAR	491,938,144.57	65,077,672.05	320,915.00	556,694,901.62	155,061,345.00	41,775,501.00	196,836,846.00	359,858,055.62

FRANK & CO NAGERCOIL CHARTERED ACCOUNTANTS

Noorul Islam Centre for Higher Education-NAAC SSR

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

10-47A, HAJI MANZIL
KOLLENVILAI, THUCKALAY
KANYAKUMARI DIST

Notes form part of Balance Sheet as at 31st March, 2015

Note No	LIABILITIES	Figures as at 31-03-2015 ₹	Figures as at 31-03-2014 ₹
1	**A. CAPITAL ACCOUNT:**		
	As per Last Balance Sheet	351,028,206.17	347,990,687.79
	Add: Excess of Expenditure over Income	-10,235,778.41	3,037,518.38
		340,792,427.76	351,028,206.17
	B. STUDENTS WELFARE FUND:		
	As per Last Balance Sheet	7,592,198.00	7,592,198.00
		7,592,198.00	7,592,198.00
	Total	**348,384,625.76**	**358,620,404.17**
2	**LOANS AND ADVANCES:**		
	Dr.Shafeek Salim	6,800,000.00	6,800,000.00
	HDFC V.Loan A\c No:80662828	825,180.51	1,144,976.64
	HDFC V Loan A\c No:80667383	333,152.16	462,139.77
	Loan From Mrs.Rajeena.	600,000.00	-
	TMB LOD -026700400103021	-	20,248,701.00
	TMB LOD-026700400103033	165,533.00	-
	TMB LOD-026700400103034	164,978.00	-
	TMB LOD-026700400103131	35,822,596.00	-
		44,711,439.67	**28,655,817.41**
3	**CURRENT LIABILITIES:**		
	Caution Deposits	3,258,702.00	3,345,702.00
	Civil Service Coure Fee	17,500.00	-
	Hostel Deposit	1,542,000.00	1,546,000.00
	Library Deposit	10,000.00	10,000.00
	Mess Adavance	20,179,773.65	18,142,673.10
	Sundry Creditors - As per Annexure - I	21,479,019.57	14,835,768.73
		46,486,995.22	**37,880,143.83**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

Annexure - IV

Note No	LIABILITIES	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
3	**Current Liabilities - Annexure - I - Sundry Creditors:**		
	Chandrika Daily	230,000.00	30,000.00
	Earnest Advertising	754,548.90	3,317,552.30
	Janmabhumi	25,000.00	-
	Kal Publication	-	45,000.00
	Hayyak Communication	-318,322.00	-
	Rozgar Samachar	33,120.00	33,120.00
	Soori Combines	52,674.00	24,720.00
	The Daily Thanthi	51,944.00	-
	Thoppilsurendran	70,000.00	96,000.00
	Abhishek Electrical Agency	795,361.50	-3,050.50
	Aeon Renewable Energy Solution Pvt Ltd	499,055.00	-
	A.J.S.Plywood&Glasses	55,268.00	125,166.00
	Alampara Aluminum Fabricatiors	772,415.00	211,800.00
	Arasu Paper Mart	1,934.00	-
	Associated Agencies	-22,935.93	419,070.83
	Brito Saw Mill& Timber	846,622.00	909,537.00
	Current Books (India)Pvt.Ltd	-	90,869.00
	Dhruva Space Pvt Ltd	-516,840.00	-
	DATA Patterns	2,742,000.00	-
	Ellipse Technologies Pvt,Ltd	452,610.00	-
	Greety Traders	1,818,061.85	2,280,222.85
	G.S.Communications	110,768.00	-
	Guru Tailors	45,150.00	6,450.00
	HCL Infosystems Ltd	465,472.00	465,472.00
	Higgin Bothams Ltd	3,184.00	3,184.00
	Info Palace	-	36,000.00
	J.R.Book Agencies	10,090.00	10,090.00
	Kochu Pillai	-100,000.00	-
	Kumaresan	-	20,250.00
	Nathan Agencies	2,853,308.25	2,419,840.25
	Padma Electricals	204,750.00	-
	Perfect Power System	905,490.00	-
	Pothys	-20,371.00	-
	Balance C/F	12,820,357.57	10,541,293.73



Balance B/F	12,820,357.57	10,541,293.73
Pravasi Bharathi	20,000.00	20,000.00
Queens	98,410.00	-
Rainbow Printers	779,059.00	619,828.00
RetnaSwamy Tiles	165,704.00	123,487.00
Salary Payable	3,917,982.00	-
DST Payable	257,600.00	-
TDS Payable	14,882.00	-
ScholarShip Payable	30,455.00	5,455.00
Star Industry	74,092.00	-
Sultan Pillai	1,376,070.00	1,171,520.00
TBH Chennai	-2,000.00	-2,000.00
Thara Traders	709,576.00	709,576.00
Ubal Raj Agency	649,378.00	649,334.00
United Scientific Supplies.	58,900.00	99,300.00
Yamini Associates	-	152,640.00
Yesh Bio-System	50,000.00	50,000.00
Universl Motion Inc	-	85,781.00
Axenic Systems	458,554.00	458,554.00
Gems International Machines	-	115,000.00
The Precision Scientific	-	36,000.00
	21,479,019.57	**14,835,768.73**



Annexure - IV

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

10-47A, HAJI MANZIL
KOLLENVILAI, THUCKALAY
KANYAKUMARI DIST

Notes form part of Balance Sheet as at 31st March, 2015

Note No	ASSETS	Figures as at 31-03-2015 ₹	Figures as at 31-03-2014 ₹
5.	**CURRENT ASSETS, LOANS AND ADVANCES:**		
1	**Deposits (Asset)**		
	Elelctricity Deposit	1,453,347.00	1,332,820.00
	Gas Deposit	11,000.00	11,000.00
	MILK Deposit	150,000.00	150,000.00
	Telephone Deposit	298,468.00	298,468.00
	Water Depsoit	14,250.00	14,250.00
		1,927,065.00	**1,806,538.00**
2	**Loans & Advances (Staff)**		
	Krishnan	-	3,500.00
	Mr.Kumarapillai	6,000.00	18,000.00
	Padmanabha Pillai	2,500.00	8,500.00
	Ramachandran T	6,700.00	-
	Ramesh Kumar R.	10,000.00	10,000.00
		25,200.00	**40,000.00**
3	**Other Advances:**		
	Indian Academy of Science	56,182.00	-
	Science and Engineering Research Board	100,000.00	-
	AR.A.S.Motors Pvt Ltd	2,562.00	-
	C.K.Shaji	-	3,000.00
	Global Aviation	350,000.00	350,000.00
	Department of Bio-Technology	200,000.00	200,000.00
	Innocorp Ltd	225,000.00	225,000.00
	Mr.Dharmaraj-PD	-	25,500.00
	V.K.N.Aviation Academy	10,000,000.00	-
	P.Manikandan-Lift Service	100,000.00	-
	Oka-Basu's Metal Technologies Pvt Ltd	50,000.00	-
	Palpap Ichinichi Software International Ltd	201,000.00	-
	Zuji Elevator	215,000.00	-
	Inspire Programme - Dept. Science & Technology	350,000.00	350,000.00
		11,849,744.00	**1,153,500.00**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

4	Cash and Bank Balances:		
	Cash-in-hand	323,297.05	1,509,135.05
	HDFC Bank S.BA/cNo:18781450000068	939,350.64	189,906.93
	Indian Bank - IB TDR No:0048007	124,972.00	124,972.00
	Indian Overseas Bank-017702000000315	22,587.67	102,785.67
	Indian Overseas Bank-017702000000316	195,814.50	195,894.50
	Indian Overseas Bank SB A\c No;017701000025316	264,028.00	253,775.00
	State Bank of India-11206265259	853,330.17	-773,561.83
	State Bank of India-11206265260	48,832.00	4,997.00
	State Bank of India-11206265271	61,116.75	61,271.75
	State Bank of India-11206269865	5,117.24	4,796.24
	State Bank of India-11206271137	27,514.91	76,522.91
	State Bank of India -30766890656	886,031.00	447,766.00
	Syndicate Bank -61802200033582	500,943.59	115,760.90
	Syndicate Bank-61802200033597	2,473,343.60	3,543,663.11
	Tamilnad Mercantile Bank-026100050307516	116,308.00	38,142.00
	Tamilnad Mercantile Bank-026150050302543	20,339.58	190,546.58
	Tamilnad Mercantile Bank-026150050303415	311,903.06	81,630.06
	Tamilnad Mercantile Bank-026150050304193	41,470.54	241,028.54
	Tamilnad Mercantile Bank-026150050304400	36,630.11	49,141.11
	Tamilnad Mercantile Bank-026150050800192	200,176.00	200,187.00
	Tamilnad Mercantile Bank-026150050800193	9,876.00	9,887.00
	Tamilnad Mercantile Bank -026150050800194	3,003,002.00	393.00
	Tamilnad Mercantile Bank-026150050800195	89,076.00	89,087.00
	Tamilnad Mercantile Bank -026150050800196	275,113.00	73,845.00
	Tamilnad Mercantile Bank -026150050800200	403,866.50	527,781.50
	Tamilnad Mercantile Bank-026150320885001	1,704.70	5,749.70
	Tamilnad Mercantile Bank A\c No:026150050800309	90,237.00	-
	Tamilnad Mercantile Bank Ltd. - 026150050800131	9,739.68	-3,617,031.93
	TMB-026200400104991	128,552.00	117,148.00
	TMB-026200400105061	47,678.00	43,704.00
	TMB -026200400105084	-	136,781.00
	TMB -026200400105110	-	75,744.00
	TMB-026200400105128	-	203,924.00
	TMB-026200400105175	-	15,711.00
	TMB -026200400105204	-	13,064.00
	TMB-026200400105219	149,472.00	136,455.00
	TMB-026200400105226	172,784.00	157,436.00
	TMB-026200400105227	51,917.00	47,305.00
	TMB-026200400105234	132,562.00	120,682.00
	TMB-026200400105238	168,384.00	153,333.00
	TMB-026200400105245	-	152,333.00
	Balance C/F	12,187,070.29	5,121,691.79

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

Balance C/F	12,187,070.29	5,121,691.79
TMB-026200400105262	192,975.00	176,111.00
TMB-026200400105354	199,257.00	181,211.00
TMB FD No:026200050104678	1,000,000.00	-
FBLTD-14400300016728	12,007,066.00	11,104,923.00
TMB 026200050103423	50,206,554.00	45,707,215.00
	75,792,922.29	**62,291,151.79**

5 Tax Deducted at Sources:

Tax deducted during the Fin. year 2012-13	-	600.00
Tax deducted during the Fin. year 2013-14	6,520.00	6,520.00
Tax deducted during the Fin. year 2014-15	102,237.00	-
	108,757.00	**7,120.00**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

Notes form part of Income and Expenditure Account for the year ended 31st March, 2015

Note No	EXPENDITURE	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
6	**Salary & Allowances:**		
	Salary & Allowances	153,759,254.00	153,377,838.00
		153,759,254.00	**153,377,838.00**
7	**Administrative Expenses:**		
	ISO /Crisil	222,937.00	259,128.00
	Audit Fee	617,980.00	561,800.00
	Bank Charges	45,888.86	99,883.12
	Bank Interest Paid	3,591,596.26	1,512,002.41
	Entrance Exam Remuneration	43,000.00	35,980.00
	Land & Building Tax	283,557.00	245,765.00
	Legal Expenses	1,936,000.00	2,645,000.00
	Membership Fee	411,550.53	160,000.00
	Miscellaneous Expenses	169,460.59	542,911.00
	Postage	258,957.00	258,236.00
	Printing & Stationery	3,860,418.00	4,243,571.00
	Professional Fee	1,245,560.00	1,285,660.00
	Public Relation Expenses	1,687,700.00	1,462,350.00
	Recognition Fee	-	7,000.00
	Refereshment Expenses	54,334.00	69,531.00
	Registration & Inspection Expenses	1,271,363.96	1,031,183.67
		15,700,303.20	**14,420,001.20**
8	**Annual Day & Celebrations:**		
	Convocation A\c	911,308.00	1,370,698.00
	Inaguration Expenses	31,952.50	26,567.00
	Magazine Payments.	-	26,150.00
	Social Day &FIne Arts Day	-	15,000.00
		943,260.50	**1,438,415.00**
9	**BUS Service Expenses:**		
	Staff Salary	6,346,662.00	6,005,864.00
	Compensation	8,400.00	4,500.00
	Diesel - Bus Service	8,997,870.18	8,471,473.37
	Insurance &Taxes-Bus	2,020,861.00	2,652,523.00
	Maintenance -Bus Service.	1,868,017.00	1,189,006.00
	Permit & Entry Fee	16,210.00	65,566.00
		19,258,020.18	**18,388,932.37**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

10	**Establishment Expenses:**		
	Consultancy Service Expenses	28,780.00	7,540.00
	Electricity Charges	6,598,167.00	6,012,789.00
	Fuel	1,863,862.06	2,497,567.70
	Advertisement Expenses.	28,021,562.60	23,327,656.24
	Guest Expenses	105,404.00	361,468.00
	Telephone Charges	443,562.00	471,769.00
	Transportation Expenses	25,535.00	70,073.00
	Travelling Expenses	745,523.00	1,009,540.00
	Uniform Expenses	476,539.00	145,900.00
	Water Charges	2,640.00	-
		38,311,574.66	**33,904,302.94**
11	**Examination Expenses:**		
	Answer Script -Cost	107,450.00	146,538.00
	Bank Charges -Exam	1,412.00	1,817.50
	Central Valuation of Theory	1,050,415.00	923,470.00
	Central Valuation TA&DA	241,634.00	207,762.00
	Exam Remuneration	179,395.00	33,031.00
	General Expenditure - Exam	2,209,487.00	1,581,649.00
	Practical Exam Remuneration	844,502.00	748,110.00
	Practical Exam TA&DA	216,694.00	205,823.00
	Printing&Stationery -Exam.	300,805.00	504,873.00
	Theory Exam Remuneration.	433,900.00	452,536.00
	Theory Exam TA&DA	73,800.00	60,850.00
	Viva Voce	442,375.00	147,071.00
	Staff Salary	2,997,587.00	1,671,996.00
		9,099,456.00	**6,685,526.50**
12	**Expert Committee's Expenses:**		
	Academic Council	27,500.00	39,504.00
	Board of Studies	152,749.00	236,941.25
		180,249.00	**276,445.25**
13	**Book Store Payment:**		
	Book Store Payment	3,027,572.50	2,448,206.00
	Staff Salary	302,258.00	276,035.00
		3,329,830.50	**2,724,241.00**
14	**Facilities to Students:**		
	Educational Softwaes	-	80,000.00
	Health Centre Expenses	1,443,296.00	122,978.00
	Job Fair-2014	551,691.00	-
	Periodicals & Journels	4,814,710.00	206,046.50
	Placement Expenses	340,693.00	408,398.00
	Sports Expenses	278,593.00	222,770.00
	Uniform to Student	1,784,311.00	649,530.00
	Students Alumni Association Expenses	39,435.00	-
		9,252,729.00	**1,689,722.50**
15	**Promotional Expenses:**		
	Inspire Fellowship Programme	237,600.00	57,671.00
		237,600.00	**57,671.00**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

16	**Repairs & Maintenance:**		
	Building Maintenance	1,463,260.00	1,591,893.00
	Equipment Maintenance	1,183,695.00	1,289,501.00
	Furniture Maintenace	58,584.00	308,300.00
	Garden Maintenance	993,600.00	1,080,150.00
	Insurance Premium	318,720.00	282,450.00
	Lab Components	304,905.00	833,201.50
	Land Development	640,150.00	897,496.00
	Road-Maintenance	45,585.00	69,200.00
	Vehicle Maintenance	707,251.00	352,143.00
		5,715,750.00	**6,704,334.50**
17	**Research & Faculty Trainning:**		
	Appreciation & Awards	190,587.00	-
	Conference Expenses	13,190.00	324,580.00
	Doctoral Committee	1,481,216.00	1,380,737.00
	Inspire FellowShip-Dalmia	79,200.00	-
	Inspire Internship Programme	1,928,399.00	1,604,000.00
	Lecture Workshop Programme	139,619.00	10,450.00
	NIU SAT	3,394,694.00	10,562,497.00
	R & D Expenses	4,106,201.00	3,636,879.00
	SERB Project Exp	155,304.00	1,461,126.00
	Staff Training Expenses	15,812.00	7,000.00
		11,504,222.00	**18,987,269.00**
18	**Educational Welfare Activities:**		
	Adoption of Govt.School	468,495.00	491,820.00
	Donation Paid	383,660.00	509,500.00
	Eductional Welfare For Tribal Children	42,200.00	40,400.00
	Fee Concession to Merit Students	5,850,000.00	5,850,000.00
	Fee Concession to Students	4,624,950.00	3,141,170.00
	Help to Cancer Patient	130,500.00	114,000.00
	Help to Poor	65,000.00	167,161.00
	Medical Help	8,000.00	74,000.00
	Other Welfare Activities	92,108.00	178,700.00
	Public Awareness Programme	-	1,930.00
	Social Welfare Activities	286,436.00	1,078,361.00
		11,951,349.00	**11,647,042.00**
19	**Staff Welfare Expenses**		
	Festival Allowance to Staff	332,500.00	520,700.00
	Management Cont'bn to EPF.	4,609,066.00	3,681,541.00
	Management Cont'bn to ESI	2,053,323.00	2,332,361.00
	Management Cont'bn to Gratuity	500,000.00	500,000.00
	Management Cont'bn to LIC	832,188.00	797,418.00
	Management Cont'bn to Mediclaim	200,739.00	228,530.00
	Other Welfare Scheme	-	9,000.00
		8,527,816.00	**8,069,550.00**
20	**Hostel Expenses**		
	Staff Salary	7,378,998.00	7,029,938.00
	Mess Expenses	34,859,264.00	29,336,073.00
		42,238,262.00	**36,366,011.00**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

Annexure - IV

Note No	INCOME	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
21	**Fee Collection:**		
	Amenities Fee	40,608,620.00	44,090,330.00
	Bus Fee Collection	14,044,153.00	12,265,321.00
	Fee Collection	456,500.00	297,500.00
	Marine Training Fee	1,969,019.00	3,016,000.00
	Medical Fee	1,107,265.00	1,107,350.00
	Miscellaneous Fee & ID Card	143,505.00	165,672.00
	Periodical Fee	1,090,200.00	1,217,450.00
	Placement Income	1,112,750.00	1,165,320.00
	Tuition Fee	208,754,375.00	212,934,950.00
	V-Sat Income	2,413,555.00	2,523,500.00
		271,699,942.00	**278,783,393.00**
22	**Projects Funds:**		
	CSIR Extra Mutual Research	222,205.00	-
	Department of Atomic Energy (BRNS)	-	237,268.00
	Dept of Science & Technology	2,294,206.00	1,857,600.00
	Dept.of Space	308,000.00	-
	DRDO Grant	166,000.00	926,000.00
	Inspire grant - Department of Science & Technology	1,950,000.00	
	Grant from other Agencies	262,575.00	-
	IIT - Bombay	-	-77,490.00
	Indian Academy of Science	82,000.00	
	Science & Engineering Research Board	1,250,000.00	2,200,000.00
	Tamilnadu State Council for Science&Technology	7,500.00	203,000.00
		6,542,486.00	**5,346,378.00**
23	**Hostel Income**		
	Hostel Admn. & Entrance Fee	1,907,290.00	1,863,950.00
	Hostel Rent	11,193,958.00	12,442,815.00
	Mess Income	35,009,264.45	29,336,073.00
		48,110,512.45	**43,642,838.00**
24	**Annual Day & Celeberation Collection**		
	Convocation Collection	503,750.00	486,250.00
		503,750.00	**486,250.00**



25	**Other Receipts**		
	Advance Written Off	-	36,400.00
	Alumini Account	54,500.00	67,500.00
	Book Fee	1,544,450.00	2,177,219.00
	Book Store Receipts	3,991,924.00	2,102,004.50
	Collection of Mech.Dept	1,476,431.00	-
	Conference Income	-	25,000.00
	Consultancy Service	124,016.00	99,165.00
	Electricity - Staff Quarters	60,060.00	61,990.00
	Interest on Electricity Deposit	-	3,600.00
	Interest on TDS	60.00	-
	Laptop Cost from Student	-	-30,000.00
	Magazine Receipts	376,585.00	412,100.00
	Migration Certificate Fee	11,200.00	15,600.00
	Miscellaneous Income	6,321,419.00	5,118,571.00
	Sale of Application Form	503,400.00	905,045.00
	Telephone - Users Collection	52,185.00	66,905.01
	Youth Red Cross Program	73,062.00	79,347.00
	Dept of Chemistry	71,000.00	-
	Exam Remuneration	155,735.00	-
	Bank Interest	5,968,633.18	6,020,591.13
		20,784,660.18	**17,161,037.64**
26	**Exam Fee**		
	Exam Fee	14,259,539.00	13,788,125.00
	Exam Fee - DC Meeting & Viva Voce	278,000.00	342,300.00
		14,537,539.00	**14,130,425.00**

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

Notes form part of Receipts and Payments Account for the year ended 31st March, 2015

Note No	RECEIPTS	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
27	**Loans & Advances:**		
	TMB LOD-026700400103131	35,822,596.00	20,248,701.00
	TMB LOD-026700400103033	165,533.00	-
	TMB LOD-026700400103034	164,978.00	-
	Rejeena	600,000.00	-
	Total	36,753,107.00	20,248,701.00
28	**Sundry Creditors:**		
	Janmabhumi	25,000.00	-
	The Daily Thanthi	51,944.00	-
	Nathan Agencies	433,468.00	-
	Abhishek Electrical Agency	798,412.00	-
	Aeon Renewable Energy Solution Pvt Ltd	499,055.00	-
	Soori Combines	27,954.00	24,720.00
	Current Books (India)Pvt.Ltd	-	90,869.00
	DATA Patterns	2,742,000.00	-
	Brito Saw Mill& Timber	-	750.00
	Eureka Forbes Ltd	-	(1,190.00)
	Ellipse Technologies Pvt.Ltd	452,610.00	
	G.S.Communications	110,768.00	-
	Perfect Power System	905,490.00	-
	Arasu Paper Mart	1,934.00	-
	Padma Electricals	204,750.00	-
	Pravasi Bharathi	-	15,000.00
	Queens	98,410.00	-
	Sultan Pillai	204,550.00	-
	Ubal Raj Agency	44.00	-
	Greety Traders	-	1,097,512.00
	Chandrika Daily	200,000.00	-
	Alampara Aluminum Fabricatiors	560,615.00	211,800.00
	A.J.S.Plywood&Glasses	-	125,166.00
	Info Palace	-	36,000.00
	Associated Agencies	-	278,715.07
	Rainbow Printers	159,231.00	190,865.00
	Thoppilsurendran	-	96,000.00
	United Scientific Supplies.	-	99,300.00
	Hayyak Communication	-	1,000.00
	Guru Tailors	38,700.00	11,400.00
	RetanaSwamy Tiles	42,217.00	121,487.00
	Yamini Associates	-	152,640.00
	Salary Payable	3,917,982.00	-
	DSTPayable	257,600.00	-
	TDS Payable	14,882.00	-
	Scholarship	25,000.00	1,293,955.00
	Tota	11,772,616.00	3,845,989.07

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

29	**Staff Advances:**		
	Krishnan	3,500.00	6,000.00
	Mr.Kumarapillai	12,000.00	(18,000.00)
	Padmanabha Pillai	6,000.00	6,000.00
	T Ramachandran	(6,700.00)	5,500.00
	Krishna Kumar K.		2,000.00
	Nagaru Pillai-Cook		1,000.00
	Ramesh Kumar R.		1,000.00
	Selvakumar-Asst.Wardern		2,500.00
	Sukumar		1,000.00
	Total	14,800.00	7,000.00
30	**Other Advances:**		
	Prof.S.N.Nair	-	40,000.00
	C.K.Shaji	3,000.00	-
	Axenic Systems	-	857,377.00
	FTD Automation Pvt-Ltd	-	213,522.00
	Gems International Machines	-	415,000.00
	Universl Motion Inc	-	785,781.00
	M.N.Communications	-	200,000.00
	M/S.Mosima	-	313,938.00
	The Precision Scientific	-	36,000.00
	Seyyadu Ali	-	60,000.00
	HDFC V.Loan A\c No:80662828	-	1,144,976.64
	HDFC V Loan A\c No:80667383	-	462,139.77
	Total	3,000.00	4,528,734.41

Note No	PAYMENTS	Figures as at 31-03-2015	Figures as at 31-03-2014
		₹	₹
31	**Loans & Advances:**		
	HDFC V.Loan A\c No:80662828	319,796.13	
	HDFC V Loan A\c No:80667383	128,987.61	
	TMB LOD -026700400103021	20,248,701.00	
	Total	20,697,484.74	

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

32	Sundry Creditors:	₹	₹
	Earnest Advertising	2,563,003.40	2,079,049.76
	Hayyak Communication	318,322.00	-
	Brito Saw Mill & Timber	62,915.00	-
	Kal Publication	45,000.00	33,076.00
	A.J.S.Plywood&Glasses	69,898.00	-
	Thoppilsurendran	26,000.00	-
	Current Books (India)Pvt.Ltd	90,869.00	-
	Dhruva Space Pvt Ltd	516,840.00	-
	Associated Agencies	442,006.76	-
	Info Palace	36,000.00	-
	Ellipse Technologies Pvt,Ltd	-	1,163,297.50
	Kumaresan	20,250.00	-
	Pothys	20,371.00	-
	Greety Traders	462,161.00	-
	Gems International Machines	115,000.00	
	Kochu Pillai	100,000.00	26,800.00
	Yamini Associates	152,640.00	-
	Nathan Agencies	-	345,027.00
	Novel Technologies	-	9,600.00
	Sultan Pillai	-	29,910.00
	Ubal Raj Agency	-	408,703.00
	United Scientific Supplies.	40,400.00	-
	Bharath Clothing Company	-	1,191,430.00
	Nethaji Stores	-	637,695.00
	The Hindu	-	1,858,729.00
	Kalaimagal	-	25,000.00
	Abhishek Electrical Agency	-	1,448,065.00
	Higgin Bothams Ltd	-	646,152.00
	Thara Traders	-	102,500.00
	Thejus Engineering Works	-	400,000.00
	Kumaresan	-	26,405.00
	Fine Engineering	-	50,000.00
	Padma Electricals	-	108,935.00
	RMKV Farics Ltd	-	87,598.00
	Signature Marketing	-	43,700.00
	Universl Motion Inc	85,781.00	-
	The Precision Scientific	36,000.00	-
	Star Industry	(74,092.00)	128,765.00
	Total	5,129,365.16	10,850,437.26

FRANK & CO CHARTERED ACCOUNTANTS NAGERCOIL

ANNEXURE - V

Government of India
Ministry of Human Resource Development
Department of Higher Education
Statistics Division
New Delhi

Certificate

Reference No. U-0468-2014

This is to certify that Sulaipher - - of Noorul Islam Centre for Higher Education, Kanyakumari has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2014-2015.

(B N Tiwari)
Deputy Director General

Dated: 10/07/2015

ANNEXURE - VI

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION
NOORUL ISLAM UNIVERSITY

(Deemed University declared under section 3 of UGC act 1956)
Kumaracoil, Thuckalay, Kanyakumari, Tamilnadu, India- 629 180.

Academic Year 2015-16 (ODD Semesters)
Academic Schedule – S3,S5,S7 UG & PG and S9 M.Sc Classes

Academic Activities

Instruction begins for S3,S5 &S67UG & PG , S9 M.Sc. Classes	1st July 2015 , Wednesday
Formation of Class /Programme / Course Committees and forwarding the committee members list to the Academic Affairs office	Before 10th July 2015, Friday
First Class Committee Meeting for informing the Regulations and Course Committee Meeting to decide the scheme of evaluation	Before 15th July 2015, Wednesday
First Programme Committee Meeting to review the syllabus coverage details	7rd August 2015, Friday
Forwarding the syllabus coverage details to the concerned Authorities	10th August, 2015 Monday
Commencement of First Series Test for S3&S5,S7 UG & PG and S9 M.Sc. Classes	12th August, 2015Wednesday
Review of First Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	31st August 2015, Monday
Forwarding the academic performance of students and attendance details to the University Authorities by class committee chairman	1st September 2015, Tuesday
Commencement of First Internal Practical Test	2nd September 2015, Wednesday
Payment of Even Semester Examination Fee	7th September 2015 to 11th September 2015
Payment of Even Semester Examination Fee with fine	14th September 2015 to 19th September 2015
Second Programme Committee Meeting to review the syllabus coverage details	22nd September 2015, Tuesday
Forwarding the syllabus coverage details to the concerned Authorities	23rd September 2015,Wednesday
Commencement of Second Series Test for S3&S5,S7 UG & PG and S9 M.Sc. Classes	25th September 2015, Friday
Review of Second Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	7th October 2015, Wednesday
Forwarding the academic performance of students and attendance details to the University Authorities by class committee chairman	8th October 2015, Thursday
Commencement of Second Internal Practical Test	16th October 2015, Friday
Third Programme Committee Meeting to review syllabus coverage details	30th October 2015, Friday
Forwarding the syllabus coverage details to the concerned Authorities	2nd November 2015,Monday
Commencement of Third Series Test for S3&S5,S7 UG & PG and S9 M.Sc. Classes	4th November 2015, Wednesday
Review of Model Examination Performance of Students (Class Committee & Course Committee Meetings)	11th November 2015, Wednesday
Last day of Instruction for S3&S5,S7 UG & PG and S9 M.Sc. Classes	13th November 2015, Friday
Commencement of End Semester Practical Examination	16th November 2015,Monday
Commencement of End Semester Theory Examination	26rd November 2015, Thursday
Commencement of Odd Semester Classes	4th January 2016, Monday

30/10/15

Director (Academic Affairs)

To:

1. All HODs, Deans and Directors

Prof. Dr. A. Shajin Nargunam, M.E., Ph.D.,
Director-Academic Affairs
Noorul Islam Centre for Higher Education
Kumaracoil, Thuckalay.

Copy To:

1. PA to President
2. PA to Advisor
3. PA to Advisor – Research, Projects & Quality Assurance
4. PA to Vice-Chancellor
5. PA to Pro-Vice-Chancellor
6. The Registrar

Annexure - VI

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION
NOORUL ISLAM UNIVERSITY

(Deemed University declared under section 3 of UGC act 1956)
Kumaracoil, Thuckalay, Kanyakumari, Tamilnadu, India- 629 180.

Academic Year 2015-16 (Even Semesters)
Academic Schedule – S4,S6 UG & PG and S8 M.Sc Classes

Academic Activities

Instruction begins for S4&S6 UG & PG , S8 M.Sc. Classes	4th January, 2016, Monday
Formation of Class /Programme / Course Committees and forwarding the committee members list to the Academic Affairs office	Before 8th January 2016, Friday
First Class Committee Meeting for informing the Regulations and Course Committee Meeting to decide the scheme of evaluation	Before 20th January 2016, Wednesday
First Programme Committee Meeting to review the syllabus coverage details	5th February, 2016, Friday
Forwarding the syllabus coverage details to the concerned Authorities	8th February, 2016 Monday
Commencement of First Series Test for S4&S6 UG and S4 MCA & S8 M.Sc. Classes	10th February, 2016 Wednesday
Review of First Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	19th February 2016, Friday
Forwarding the academic performance of students and attendance details to the University Authorities by class committee chairman	22nd February 2016, Monday
Commencement of First Internal Practical Test	25th February 2016, Thursday
Payment of Even Semester Examination Fee	29th February 2016 to 5th March, 2016
Payment of Even Semester Examination Fee with fine	7th March 2016 to 11th March 2016
Second Programme Committee Meeting to review the syllabus coverage details	9th March 2016, Wednesday
Forwarding the syllabus coverage details to the concerned Authorities	10th March 2016,Thursday
Commencement of Second Series Test for S4, S6 UG, PG ,S8 M.Sc Classes	14th March 2016, Monday
Review of Second Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	24th March 2016, Thursday
Forwarding the academic performance of students and attendance details to the University Authorities by class committee chairman	28th March 2016, Monday
Commencement of Second Internal Practical Test	7th April 2016, Thursday
Third Programme Committee Meeting to review syllabus coverage details	15th April 2016, Friday
Forwarding the syllabus coverage details to the concerned Authorities	18th April 2016,Monday
Commencement of Model Examination for S4, S6 UG ,S8 M.Sc , PG Classes	19th April 2016, Tuesday
Review of Model Examination Performance of Students (Class Committee & Course Committee Meetings)	28th April, 2016, Thursday
Last day of Instruction for S4&S6 UG and PG Classes,	29th April, 2016, Friday
Commencement of End Semester Practical Examination	2nd May 2016', Monday
Commencement of End Semester Theory Examination	16th May, 2016, Monday
Commencement of PG Project Viva Voce Examination	25th May 2016, Wednesday
Commencement of Odd Semester Classes	4st July, 2016, Monday

30/4/15

Director (Academic Affairs)

To:

1. All HODs, Deans and Directors

Prof. Dr. A. Shajin Nargunam, M.E., Ph.D.,
Director-Academic Affairs
Noorul Islam Centre for Higher Education
Kumaracoil, Thuckalay.

Copy To:

1. PA to President
2. PA to Advisor
3. PA to Advisor – Research, Projects & Quality Assurance
4. PA to Vice-Chancellor
5. PA to Pro-Vice-Chancellor
6. The Registrar

Annexure - VI

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION
NOORUL ISLAM UNIVERSITY

(Deemed University declared under section 3 of UGC act 1956)
Kumaracoil, Thuckalay, Kanyakumari, Tamilnadu, India- 629 180.

Academic Year 2015-16 (Odd Semester)

Academic Schedule – First Year Classes

Academic Activities

First day of Instruction	5th August, 2015, Wednesday
Formation of Class /Programme / Course Committees and forwarding the committee members list to the Academic Affairs office	Before 19th August 2015, Wednesday
First Class Committee Meeting for informing the Regulations and Course Committee Meeting to finalize the scheme of evaluation	Before 1st September 2015, Tuesday
First Programme Committee Meeting to review the syllabus coverage details	23rd September, 2015,Wednesday
Forwarding the syllabus coverage details to the concerned Authorities	25th September 2015, Friday
Commencement of First Series Test	28th September 2015, Monday
Review of First Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	7th October 2015, Wednesday
Forwarding the academic performance of students and attendance details to the concerned Authorities by class committee chairman	8th October 2015, Thursday
Commencement of First Internal Practical Test	15th October, 2015, Thursday
Payment of Odd Semester Examinations Fee	26th October 2015 to 31st October 2015
Payment of Odd Semesters Examination Fee with fine	2nd Nov 2015 to 7th Nov 2015
Third Course/Class Committee Meeting to review the syllabus coverage details	29th October 2015, Thursday
Forwarding the syllabus coverage details to the concerned Authorities	30th October, 2015 Friday
Commencement of Second Series Test	2nd November, 2015 Monday
Review of Second Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	9th November, 2015, Monday
Forwarding the academic performance of students and attendance details to the concerned Authorities by class committee chairman	11th November, 2015, Wednesday
Commencement of Second Internal Practical Test	19th November, 2015, Thursday
Fourth Class/Course Committee Meeting to review syllabus coverage details	26th November 2015, Thursday
Forwarding the syllabus coverage details to the concerned Authorities	27th November 2015, Friday
Commencement of Model Examinations	30th November 2015, Monday
Review of Model Examination Performance of Students (Class Committee & Course Committee Meetings)	9th December 2015, Wednesday
Last day of Instruction	9th December, 2015, Wednesday
Commencement of End Semester Practical Examination	10th December, 2015, Thursday
Commencement of End Semester Theory Examination	4th January, 2016, Monday
Commencement of Even Semester Classes	27th January 2016, Wednesday

Director (Academic Affairs)
Prof. Dr. A. Shajin Nargunam, M.E., Ph.D.,
Director-Academic Affairs
Noorul Islam Centre for Higher Education
Kumaracoil, Thuckalay.

Annexure - VI

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION
NOORUL ISLAM UNIVERSITY

(Deemed University declared under section 3 of UGC act 1956)
Kumaracoil, Thuckalay, Kanyakumari, Tamilnadu, India- 629 180.

Academic Year 2015-16 (Even Semesters)
Academic Schedule – First Year Classes

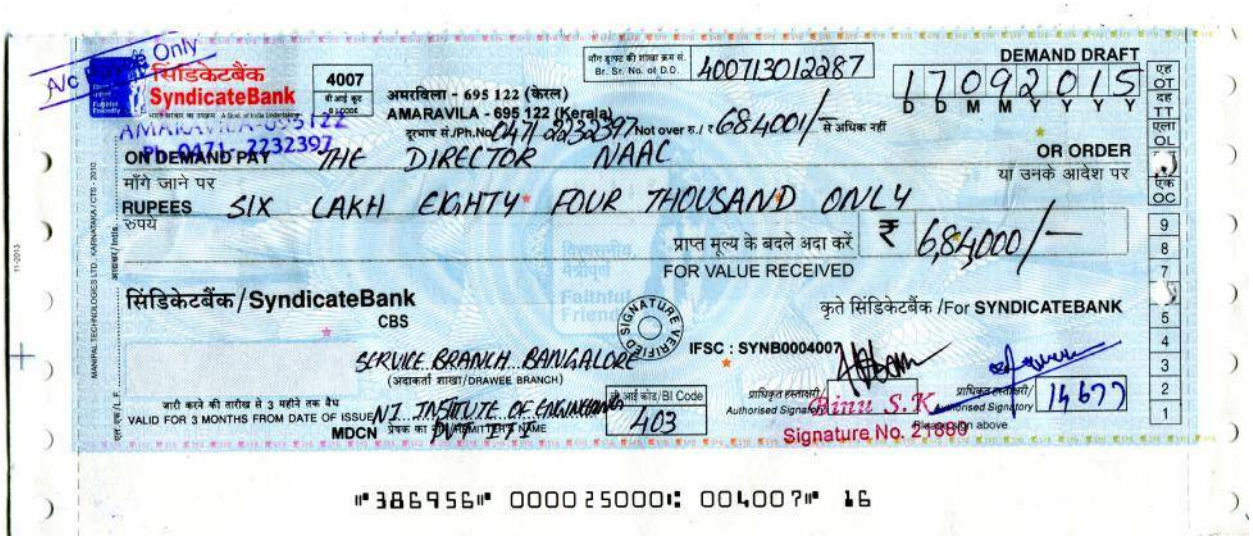
Academic Activities

Instruction begins for S2 Classes	27th January 2016, Wednesday
Formation of Class / Course Committees and forwarding the committee members list to the Academic Affairs office	8th February 2016,Monday
First Class Committee Meeting for informing the Regulations and Course Committee Meeting to finalize the scheme of evaluation	11th February 2016, Thursday
Second Course/Class Committee Meeting to review the syllabus coverage details	25th February 2016, Thursday
Forwarding the syllabus coverage details to the concerned Authorities	26th February 2016, Friday
Commencement of First Series Test	29th February 2016, Monday
Review of First Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	9th March 2016, Wednesday
Forwarding the academic performance of students and attendance details to the concerned Authorities by class committee chairman	10th March 2016, Thursday
Commencement of First Internal Practical Test	16th March 2016, Wednesday
Third Class/Course Committee Meeting to review the syllabus coverage details	31st March 2016, Thursday
Forwarding the syllabus coverage details to the concerned Authorities	1st April 2016, Friday
Commencement of Second Series Test	4th April 2016, Monday
Review of Second Series Test Performance of Students and reporting academically poor students to the Student Mentor (Class Committee & Course Committee Meetings)	13th April 2016, Wednesday
Forwarding the academic performance of students and attendance details to the concerned Authorities by class committee chairman	15th April 2016, Friday
Commencement of Second Internal Practical Test	25th April 2016, Monday
Payment of Even Semester Examination Fee	11th April 2016 to 16th April , 2016
Payment of Even Semesters Examination Fee with fine	18th April 2016 to 23rd April 2016
Fourth Class/Course Committee Meeting to review syllabus coverage details	4th May 2016 , Wednesday
Forwarding the syllabus coverage details to the concerned Authorities	6th May 2016, Friday
Commencement of Model Examinations	9th May 2016, Monday
Review of Model Examination Performance of Students (Class Committee & Course Committee Meetings)	18th May 2016, Wednesday
Last day of Instruction	19th May 2016, Thursday
Commencement of End Semester Practical Examination	20rd May 2016, Friday
Commencement of End Semester Theory Examination	3rd June 2016,Friday
Commencement of Odd Semester Classes	4th July 2016, Monday

Director (Academic Affairs)
Prof. Dr. A. Shajin Nargunam, M.E., Ph.D.,
Director-Academic Affairs
Noorul Islam Centre for Higher Education
Kumaracoil, Thuckalay.

Annexure - VI

ANNEXURE - VII


DEMAND DRAFT
SyndicateBank
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AMARAVILA - 695 122 (Kerala)
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(अदाकर्ता शाखा/DRAWEE BRANCH)
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VALID FOR 3 MONTHS FROM DATE OF ISSUE
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Biju S.K
Signature No. 21880
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NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Declared as Deemed University U/s 3 of UGC act 1956)
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E-mail:info@niceindia.com, Web: ww.niceindia.com