

Annual Quality Assurance Report

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**Annual Quality Assurance Report**  
**AQAR 2017-2018**  
**Submitted to NAAC**



**By**  
**Internal Quality Assurance Cell**  
**Of**  
**Rajagiri School of Engineering & Technology**  
**Rajagiri Valley, Kakkanad, Kochi, Kerala -682 039**

# Annual Quality Assurance Report

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## The Annual Quality Assurance Report (AQAR) of the IQAC

### Rajagiri School of Engineering & Technology

July 1, 2017 – June 30, 2018

#### PART A

##### 1. Details of the Institution

1.1 Name of the Institution

Rajagiri School of Engineering & Technology

1.2 Address Line 1

Rajagiri Valley

Address Line 2

Kakkanad

City/Town

Kochi

State

Kerala

Pin Code

682 039

Institution e-mail address

office@rajagiritech.edu.in

Contact Nos.

0484 2660999

Name of the Head of the Institution:

Dr. A. Unnikrishnan

Tel. No. with STD Code:

0484 2427160

Mobile:

94464 16148

Name of the IQAC Co-ordinator:

Dr. John M. George

Mobile:

98472 72789

IQAC e-mail address:

iqac.rset@rajagiritech.edu.in

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1.3 NAAC Track ID

08030/KLCOGN 14027

1.4 NAAC Executive Committee No. & Date:

EC(SC-22)/DO/2017/25.2 Date 22-02-2017

*(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)*

1.5 Website address:

www.rajagiritech.ac.in

Web-link of the AQAR:

<https://www.rajagiritech.ac.in/Home/naac/>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.79	2009	5 years
2	2 <sup>nd</sup> Cycle	A	3.03	2017	5 years

1.7 Date of Establishment of IQAC:

07/10/2008

1.8 AQAR for the year

2017-2018

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

Not applicable as this is the first AQAR since the 2<sup>nd</sup> Cycle of Assessment in 2017.

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## 1.10 Institutional Status

University      State  Central  Deemed  Private

Affiliated College      Yes  No

Constituent College      Yes  No

Autonomous college of UGC      Yes  No

Regulatory Agency approved Institution      Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution      Co-education  Men  Women

Urban  Rural  Tribal

Financial Status      Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

## 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

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1.12 Name of the Affiliating University (*for the Colleges*)

APJ Abdul Kalam Technological University, Trivandrum, Kerala

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR  
etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

### **2. IQAC Composition and Activities**

2.1 No. of Teachers

16

2.2 No. of Administrative/Technical staff

10

2.3 No. of students

0

2.4 No. of Management representatives

2

2.5 No. of Alumni

1

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2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: Total no.

Faculty  Non-Teaching Staff  Students

Alumni  Others

2.12 Has IQAC received any funding from UGC during the year?

Yes  No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.

International  National  State  Institution Level

(ii) Themes

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### 2.14 Significant Activities and contributions made by IQAC

- (1) Implemented an online Course Registration Mechanism through RSMS for the students
- (2) Computerized the internal audit of the academic files, and coordinated the internal audits
- (3) Organized Faculty Induction Programme for new faculty recruits – from July 24 to 28, 2017
- (4) Took the initiative to launch Special Merit Awards to students who score A, A+ and O grades in university examinations
- (5) Organized Distinguished Lectures
- (6) Ensured timely collection of feedback from all stakeholders
- (7) Has been actively involved in the NBA accreditation preparation of the Department of Mechanical Engineering, and the reaccreditation/extension of accreditation of the Departments of Applied Electronics & Instrumentation, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, and Information Technology. The latter was successfully completed on March 3, 2018
- (8) Annual reports for 2016-'17 were collected from all clubs and departments. Further, departments submitted the plan of action for the next one year
- (9) Has monitored the planning and implementation of the academic and administrative activities, and suggested quality improvement measures, which were suitably put into practice

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### 2.15 Plan of Action by IQAC/Outcome

Plan of action	Achievements
(1) Automate processes such as Course Registration and Academic Audit	(1) Successfully implemented an online Course Registration Mechanism, and an Audit Process through RSMS
(2) Draw up a 5 Year Plan for the institution	(2) Vision 2022 which encapsulates the plans from various departments, cells, clubs and associations was completed in December 2017
(3) NBA accreditation /reaccreditation /extension of accreditation preparations	(3) The peer team visit for NBA reaccreditation/extension of accreditation of five departments was completed on March 3, 2018. Department of Mechanical Engineering will be submitting its Self Study Report in June 2018
(4) Conduct timely academic audits	(4) Two academic audits per semester were conducted and the reports presented to the Principal for corrective action
(5) Collect feedback from all stakeholders	(5) Feedback has been collected. It is being compiled and analyzed for further action
(6) Regular updating of institutional website	(6) Committee has been constituted for the same and the work is in progress
(7) Conduct FDPs, trainings and workshops	(7) Has been successful in conducting FDPs, workshops and training programmes
(8) Improve academic performance	(8) Tutorial sessions and remedial programmes were conducted

*\* Academic Calendar of 2017-'18 attached as Annexure.*



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## PART - B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added/ career oriented programmes
PhD	4	1	5	0
PG	6	0	6	0
UG	7	0	7	0
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
<b>Total</b>	<b>17</b>	<b>1</b>	<b>18</b>	<b>0</b>
Inter-disciplinary				
Innovative				

##### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

Flexibility of the Curriculum	Yes
Choice Based Credit System	
Core	Yes
Elective Option	Yes
Open Options	

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(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	18
Trimester	
Annual	

1.3 Feedback from stakeholders\* (*On all aspects in numbers*)

Alumni	Parents	Employers	Students
327	777	10	465

**Mode of feedback:**

- a) Alumni : Online
- b) Parents: Manual
- c) Employers: e-mail
- d) Students: Manual

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes.  
Only KTU curriculum and syllabus was revised. In Semester II, a course CS100 Computer Programming was introduced as the knowledge in C programming language was recognized as an important pre-requisite for proceeding to higher semesters. A non-departmental course was hence replaced with the course CS100 Computer Programming in 2016. This modified curriculum & syllabus is applicable for 2016-2020 and later batches.  
Elective and curriculum syllabus modification takes place for fifth and sixth semester students (under KTU) in the year 2017-18(December to January).

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

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### Criterion – II

#### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Asst. Professors	Associate Professors	Professors	Others (Adjunct)	Total
167	11	16	6	200

2.2 No. of permanent faculty with Ph.D.

21
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
24						2 (1 Adjunct Professor & 1 Student Welfare Officer)		26	

2.4 No. of:

Guest Faculty	1
Visiting faculty	
Temporary faculty	

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	29	29	122
Presented papers	34	5	1
Resource Persons	3	6	29

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### 2.6 Innovative processes adopted by the Institution/Department in Teaching and Learning:

The departments have conducted various faculty development programmes mostly in the area of recent technologies. The students were supported by several Add-On Courses to help them in improving their soft skills. They are also given a pre placement training to refresh the topics they have studied. In addition to their curriculum coverage, other technical activities like Quiz, Seminars etc were conducted as part of Association Activities.

Encourage Peer to peer learning

Other processes include:

- Mentoring
- Guest Lectures / Expert Talks
- Industrial Visit / Training
- Digital library
- Group Discussion
- Self-learning
- E learning
- NPTEL
- Quizzes
- Micro-projects
- Design projects

### 2.7 Total No. of actual teaching days during this academic year

MGU:118

KTU:139

2.8 Examination/ Evaluation Reforms initiated by the Institution/Department (for example: Open Book examination, Bar Coding, Double Valuation, Photocopy, and Online Multiple Choice Questions)

Nil

### 2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development

<b>As member of Board of Study</b>	<b>As Faculty</b>	<b>As Curriculum Development workshop</b>
2	5	4

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### 2.10 Average percentage of attendance of students

MGU: 86.57  
KTU: 90.5185

### 2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	First %	Second %	Third %	Pass %
B.Tech in CE	62	19.35	50	1.61	NA	70.96
B.Tech CSE	123	14.63	64.23	0.81	NA	79.67
B.Tech in IT	59	3.39	57.63			61.02
B.Tech in EE	62	29.09	48.38	1.60		79.07
B.Tech in ECE	123	13.01	53.66	19.51		86.18
B.Tech in ME	58	10.34	70.69			81.03
B.Tech in AEI	62	4.84	54.84	3.23		62.91
M.Tech in NE (DIT)	8	37.5	62.5			100
M.Tech in IDAC (DEE)	11	72.7	27.3			100
M.Tech in COME (DEC)	21	4.76	61.91	33.33		100
M.Tech in VAES (DEC)	23	43.48	47.83	8.69		100
M.Tech in SP (DAEI)	2	100				100
M.Tech in CSIS (DCS)	9	77.78	22.22			100

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2.12 How does IQAC (if any at department level) Contribute/Monitor/Evaluate the Teaching & Learning processes:

<ul style="list-style-type: none"> <li>➤ All the faculty members are asked to enter the day to day activities in the RSMS and the same is monitored.</li> <li>➤ Course coverage is monitored and if there is any deviation, IQAC seeks clarification from the concerned staff through HOD.</li> <li>➤ Audits are done to see all the activities are done on time.</li> <li>➤ Feedbacks are studied and improvements are suggested.</li> <li>➤ IQAC evaluates the report and suggest improvements by discussing with the faculty.</li> <li>➤ By conducting audit at the starting of the semester and after the closing of semester helps to improve the course delivery.</li> <li>➤ Remedial Cell</li> <li>➤ Talent Cell</li> </ul>
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2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	1
UGC – Faculty Improvement programmes (AICTE Sponsored)	2
HRD programmes	6
Orientation programmes (FIP)	9
Faculty exchange programmes	3
Staff training conducted by the university	10
Staff training conducted by other institutions	75
Summer / Winter schools, Workshops, etc.	133
Others	

2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant positions</b>	<b>Number of permanent positions filled during the year</b>	<b>Number of positions filled temporarily</b>
Administrative staff	43			
Technical staff	58			

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## Criterion - III

### 3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC (if any at department level) in Sensitizing/Promoting Research Climate in the institution

- Research groups are formed and a list of research projects is given to the students. Most of the projects are chosen from the research projects.
- Conducted research presentations

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	3		
Outlay in Rs. Lakhs	1.5 lakhs	8.848 lakhs		

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		5		
Outlay in Rs. Lakhs		1.4 lakhs		

3.4 Details on research publications

	International	National	Others
Peer Review Journals	21		
Non-Peer Review Journals	6		
e-Journals			
Conference proceedings	60	1	

3.5 Details on Impact factor of publications:

Range	3.1524	9.237
Average	6.1947	
h-index	1	
Nos. in SCOPUS	26	

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3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the Funding Agency	Total grant sanctioned	Received
Major projects	3yrs(DBSH)	SERB-DST	18 LAKHS	1.515 lakhs
	1 yr	KSCSTE	2.2 lakhs	
Minor Projects	3 yrs	KTU- SEED	1 lakh	No
	1 yr	CERD	0.24 lakhs	0.19lakhs
Inter disciplinary Projects				
Industry sponsored				
Projects sponsored by the University/College	1yr(DAE)	KTU - CERD	Rs. 40,000/-	
Students research projects (other than compulsory by the University)				
Any other (Specify)	1	IEDC	Rs 40000/-	Rs 40000/-
Total			22.24 lakhs	2.105 lakhs

3.7 No. of books published

I. With ISBN No.	Nil
II. Chapters in Edited Books	Nil
III. Without ISBN No	Nil

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### 3.8 No. of University Departments receiving funds from

UGC-SAP	
CAS	
DST-FIST	
DPE	
DBT Scheme/funds	

### 3.9 For colleges

Autonomy	
CPE	
DBT Star Scheme	
INSPIRE	
CE	
Any Other (specify)	

### 3.10 Revenue generated through consultancy - Rs. 11,14,113/-

### 3.11 No. of conferences organized by the Institution/Department

Level	International	National	State	University	College
Number	2	3	0	0	0
Sponsoring Agencies	KSCSTE, CIAL, NEST, NTPC, COCHIN SHIPYARD LTD, HP, GREEN EARTH, SIB, IOCL, STEAG, CADD CENTRE, AICTE, KSCSTE, IEEE	NATIONAL BOARD FOR HIGHER MATHEMATICS -DEPT. OF ATOMIC ENERGY, INDIA ICMR NSETCI			

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3.12 No. of faculty served as experts, chairpersons or resource persons - 28

3.13 No. of collaborations

International	1	HPC
National	1	CTS
Any other	2	KMRL, SIGMOS

3.14 No. of linkages created during this year - 6

From Funding agency	18 Lakhs
From Management of University/College	
Total	18 Lakhs

3.15 Total budget for research for current year in lakhs:

From Funding agency	1.4 Lakhs
From Management of University/College	6.0 Lakhs
Total	7.4 Lakhs

3.16 No. of patents received this year

SL No:	Patent No:	Date of Application of Patent	Status : Granted/ On Process/ Rejected	Authors Name.	Patent Details
1	201741003931	2/2/2017	On Process	Rijin John	Advanced Centralised Distributed lighting Arrestor Network with Power Distributor and energy Conversion Mechanism
2	201641000564	7/1/2016	On Process	Mohammed Jasim	Intelligent Road Traffic and Transport Management System

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3.17 No. of research awards/recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College/Department
6	3	3	NIL	NIL	NIL	NIL

3.18 No. of faculty from the Institution/Department

who are Ph. D. Guides	12
students registered under them	32

3.19 No. of Ph.D. awarded by faculty from the Institution/Department - Nil

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled+ existing ones)

JRF	SRF	Project Fellows	Any other
		2	

3.21 No. of students Participated in NSS events:

University level	State level	National level	International level
120			

3.22 No. of students participated in NCC events:

University level	State level	National level	International level

3.23 No. of Awards won in NSS:

University level	State level	National level	International level
1			

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### 3.24 No. of Awards won in NCC:

University level	State level	National level	International level

### 3.25 No. of Extension activities organized

University forum	College forum	NCC	NSS	Any other
			13	

### 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Extension activities	22
Institutional Social Responsibility	

- DCE provides technical support for Edappally Block Panchayat on Low Cost Housing project in connection with Life Mission Construction project of State Government; the support team members are Ms.AyshaZeneebMajeeb, Ms.Kavitha M & Ms. Nimisha Reji .
- VYTHIK(LED Driver Design Assembly) by Nitheesh Kurian, Nithin Babu
- School kit distribution programme by Department of Electrical and Electronics Engineering

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## Criterion – IV 4. Infrastructure and Learning Resources

### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus Area	28.73 acres	nil		
Class Rooms	43	7	RSET	50
Laboratories	47	2	RSET	49
Seminar Halls	9			9
No. of important equipments purchased ( $\geq$ 1 Lakh) during the current year	78	3	RSET	81
Value of the equipment purchased during the year (Rs. in Lakhs)	29394722	2821499.4		322,16,221.4

### 4.2 Computerization of administration and library

We have internal software called RSMS (Rajagiri Student Management System) for the day to day administration, this software is updated as and when required and Library automation is done using the software Libsoft.

### 4.3 Library services:

	Existing		Newly Added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	26004	8330005.5	2850	1071002	28854	9401007.5
Reference Books	4521	4664847.5	214	225416	4735	4890263.5
	<b>30525</b>	<b>12994853</b>	<b>3064</b>	<b>1296418</b>	<b>33589</b>	<b>14291271</b>
e-Books	nil					
Journals (2009, 2010, 2011, 2012, 13, 14, 15, 16, 17, 18)	459	1405877	81	215872	540	1621749

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e-Journals (2009, 2010, 2011,2012, 13, 14, 15, 16, 17,18)	<b>E-Journal Packages</b> 1.IEEE/IET - IEL 2. ASCE 3. ASME	13903077	1.IEEE ALL-Society Periodical Package(A SPP) + IEEE Proceeding s Order Plan ALL ( POP ALL) 2. ASCE - Civil Engineerin g 3. ASME - Mechanical Engineerin g 4. American Mathematic al Monthly	3462288	4 E- Journal Package s	17365365
Digital Database	<b>NPTEL Video Lectures , Institutional Repository, Member of National Digital Library of India (NDL)</b>					
CD & Video	3163		197		3163	
Others (specify)	<b>Back Volumes 2117</b>					

#### 4.4 Technology up gradation (overall)

	Total Computers PCs/ Laptops	Comput er labs	Internet	Brow sing center s	Com puter Cent ers	Offi ce	Dep artm ents	Others
Existing	Students – 806	16	Vodafone – 60Mbps	1	2	1	8	Entire college is

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	Administrative Office- 7 Library – 34 Language Lab – 36 Faculty – 146		Asianet – 70Mbps					Wi-Fi enabled and all computer labs have Internet access.
Added	NIL	5	Asianet – 20Mbps	0	0	NIL	NIL	
Total	1029	21	150Mbps	1	2	1	8	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology Up gradation. (Networking, e-Governance etc.)

- Faculty members are provided with Laptops on seniority basis.
- All students have separate login accounts to store their data in the college server.
- Separate accounts are given to all the faculty members to save their data and they can use internet and intranet any time free of cost.
- All the staff rooms are equipped with computer and printer with internet access.
- Entire campus is Wi-Fi enabled and all computer labs have Internet access.
- The Wi-Fi facility is available in the college hostels also.
- The institution has a total of 150 Mbps speed for internet connectivity.

### Training for Teachers

- ‘Faculty Training In Ansys Structural, Thermal And Fluent Workbench’ Organized In Association With CORREL TECHNOLOGIES On 23rd And 24th Feb 2018.
- Fusion 360 software Introduction session on 27<sup>th</sup> and 28<sup>th</sup> Jul 2017
- Autodesk Fusion 360- Modelling software training session by BIM IT, Kochi conducted on 26<sup>th</sup> and 27<sup>th</sup> Sep 2017, 6<sup>th</sup> and 27<sup>th</sup> Oct 2017 and 10<sup>th</sup> Nov 2017
- ‘Engineeria’- Global Engineering Quiz in AUTOCAD in association with CADD Centre, Aluva on 4<sup>th</sup> and 5<sup>th</sup> Oct 2017

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- Department of civil Engineering conducted MT Lab 2 Training for Faculty members & Lab Staffs on 13<sup>th</sup> July, 2017
- Short term course on Dynamic Analysis of Structures using ETABS (software) was conducted for faculty and students from Jan 6<sup>th</sup> to 10<sup>th</sup>, 2018 by Department of Civil Engineering.
- International conference on Green Buildings & Sustainable Engineering (GBSE 2018) & Indo- German Dialogue and Exposition on Smart and Sustainable Habitat (SASH 2018) was conducted by Department of civil Engineering and Mechanical Engineering for UG/PG Students, Research/PhD Scholars, Industrialists and Academicians from Jan 24-25, 2018.
- Pre- Conference Workshop was conducted on Jan 23<sup>rd</sup>, 2017 as part of the International conference on Green Buildings & Sustainable Engineering (GBSE 2018)
- Computer Applications Lab of department of Civil Engineering was blessed by Rev. Fr. Jose Alex CMI, Director on 5<sup>th</sup> October, 2017
- International FDP on HPC & Data Science on Aug 17 – 22, 2017.
- Three session of HPC User training course conducted on January 20<sup>th</sup> & Feb 3<sup>rd</sup>, 2018 in Sunya Lab.
- Guest Lecture and Interactive Session on Modern Trends in Power System Design for the faculty members, PG and research scholars by Prof. M.L.KOTHARI, FNEA, Former Professor, IIT Delhi on 2<sup>nd</sup> February 2018.

### **Training for Students**

- Department of civil engineering conducted a talk on Construction safety equipments by Arbit Safety & Engineering Solutions for S7,S5 & S3 civil students on 22<sup>nd</sup> August, 2017 under the banner of civil engineering association, Nirmana
- Department of civil engineering conducted a talk on Marine Soil by Mr Jayakrishnan Menon (Senior Geotechnical Engineer, Geo Structural Pvt Ltd) for S7 civil students on 22<sup>nd</sup> September, 2017 under the banner of civil engineering association, Nirmana
- Department of civil engineering conducted an International quiz competition for civil students by CADD centre under the banner of civil engineering association, Nirmana for S3, S5 & S7 CE students on 11<sup>th</sup> October, 2017.

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- Talk on Revit and 3dmax software by Cadd Centre was given to S6 & S4 CE students on 28<sup>th</sup> February, 2018 under the banner of civil engineering association, Nirmana
- One day workshop on Concrete Mix Design was conducted on 21<sup>st</sup> March, 2018 for civil engineering students under the banner of ICI
- Talk on Revit Softwares and Integrated BIM by Mr. Viju Antony, BIMIT CAD & BIM Training Services given to S6 & S4 CE students on 14<sup>th</sup> March, 2018
- One Day Workshop by ACC Cement Group & Cube Casting Competition was conducted on 17<sup>th</sup> March, 2018 for civil engineering students under the banner of civil engineering association, Nirmana
- An Industrial Visit to Metcon Steels, Muvattupuzha was organized for S4CE on 24<sup>th</sup> March, 2018 under the banner of civil engineering association, Nirmana
- Hands on Training program on ARM processor on 24<sup>th</sup> Feb, 2018 for S6 AEI under Apptronics.
- A Workshop on Arduino, on 6<sup>th</sup>, 9<sup>th</sup> & 11<sup>th</sup> Oct 2017 for S4AAEI students.
- Python Boot Camp on 7<sup>th</sup> Oct 2017 in association with RSET IEDC organized by Athul Ram, Student of ME Dept., RSET on 7<sup>th</sup> Oct 2017
- BAL BOT workshop by organized by ME Dept. Students (Aswath Nambiar, Bijil, Nirmal M. K., Arjun T. M. and Athul Krishna) on 9<sup>th</sup> to 14<sup>th</sup> Oct 2017
- Talk on 'World of Simulation' by Altair India Pvt. Ltd. On 9<sup>th</sup> Nov 2017
- BAL- BOT workshop competition at Heat Engines Lab, Dept. of ME, RSET on 16<sup>th</sup> Nov 2017
- Awareness talk on job opportunities in QA, QC, NDT and Safety Engineering by Technoscan Inspection Services for advanced Training (TISAT), Cochin on 9<sup>th</sup> March 2018
- One day training in NDT equipments by United NDT Training and Inspection Centre Cochin at Mechanical Systems Lab, RSET on 17<sup>th</sup> March 2018.
- CAD QUIZ in association with CADD center Aluva on 2<sup>nd</sup> Feb 2018
- Workshop on Robotics and 3D Printing for B.Tech students by Mr. Paul George, Mr. Kiran Anto, S8 Students on 7<sup>th</sup> October 2017.

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- Workshop on Circuit Simulation Using MULTISIM for S3 EEE Students, by Ms. Renu George on 26<sup>th</sup> October 2017.
- One Day Arduino Workshop for S5 EEE and S1 IDAC Students by Ms. Lakshmi R Menon, Ms. Mary Vinaya, Ms. SayanaBaburaj, S5 EEE on 6<sup>th</sup> November 2017.
- Workshop on “Fusion 360 & REVIT MEP”, for S6 EEE Students by BIMIT – CAD & BIM Training & Services 19<sup>th</sup> January 2018.
- Seminar and Hands-on Experience in Industrial Automation Using PLC and SCADA for S6 EEE students by Q Automation training wing of Quadrant Technologies 12<sup>th</sup> February, 2018.

#### 4.6 Amount spent on maintenance in **lakhs**:

ICT	24.23
Campus Infrastructure and facilities	2512.40
Equipments	45.35
Others	3328.22
Total (Both Revenue & Capital)	5910.20

# Annual Quality Assurance Report

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## Criterion – V

### 5. Student Support and Progression

5.1 Contribution of IQAC (IF ANY AT DEPARTMENT LEVEL) in enhancing awareness about Student Support Services

- (a) First Year Students are given an Orientation Programme which helps in familiarizing them with the Student Support Services available, apart from giving them an insight into the academic, and co curricular activities of the college
- (b) RSMS and Student Notice Boards are utilized for providing all relevant information to the students at the required times
- (c) Student Handbook and the institutional website also carry all pertinent information with regard to student support facilities available. Course handouts will also be provided to the students
- (d) Mentoring is carried out on a regular basis to identify and help students overcome academic and personal issues, and the mentoring records are presented for audit
- (e) Student Welfare Officer offers counseling and support to students on academic and personal issue, and the records of the same are presented for audit
- (f) IQAC also ensures that remedial classes are offered to the weak student's right from the beginning of the semester, after the inadequacy is identified. There will be add on courses to other students
- (g) Monitoring various student and institution/ committees activities.

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### 5.2 Efforts made by the Institution/Department for tracking the progression

- (a) Academic records of the student are made available in the RSMS, thereby ensuring continuous tracking down the four years of the B.Tech programme
- (b) The Mentoring and Activity Points record maintained by the Class Teacher/Mentor also serves as a mechanism for tracking student progression
- (c) Open Houses are conducted in each semester to facilitate parent-teacher interaction
- (d) PTA meetings are also held regularly to address all relevant issues

### 5.3 (a) Total Number of students

UG		PG		Ph. D.		Othe		Total	
Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
1695	1212	32	172	12	15			1739	1399

(b) No. of students outside the state - 4

(c) No. of international students

	In numbers
Men	7
Women	0
Total	7

(d)

Last Year												This Year											
General		SC		ST		OBC		Physically Challenged		Total		General		SC		ST		OBC		Physically Challenged		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
112	89	3	2	2	3	44	37	0	0	16	13	12	97	3	2	2	3	48	38	0	0	17	138
2	8	3	5			3	8			00	04	05	5	4	1			8	8			29	7

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(e)

Department	Demand ratio	Dropout %
AEI		NIL
CE		1.5%
CSE		0.6%
ECE		0.37%
EEE		2.4%
IT		1.5%
ME		0.45%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)  
No. of students beneficiaries - 85

5.5 No. of students qualified in these examinations

NET	SET /STET	GATE	CAT	IAS / IPS	State PSC	UPSC	Others
0	0	18	0	1	0	0	0

5.6 (a) Details of student counseling and career guidance

The student welfare officer of the college provides counselling services to the students with personal and psycho- social problems.

Placement trainings were given to the third year and final year students by the faculty members of the placement cell to assist them in their career planning and provide information that helps the students to give a direction to their aspirations and interests and also to prepare the students for recruitment through aptitude tests, group discussions and mock interviews.

As a part of career guidance, mock placement was conducted. Students were selected through tests, group discussions, technical interviews and HR interviews.

Career training & development and digital learning in association with industry partners were provided to students by Rajagiri Proacademy.

Mentoring – 15 students per staff were allotted and discussions/ interactions were made at least twice in a semester

A motivational talk on challenges and job opportunities in civil engineering was given to S8, S6 & S4 civil engineering students by Dr.Radhakrishna G Pillai, Professor, IIT Madras on 25.01.2018.

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(b) No. of students benefitted - 2041

### 5.7 Details of campus placement

On Campus			Off Campus
Number of Organizations Visited	Number of Students participated	Number of Students placed	Number of Students Placed
79	565	341	14

### 5.8 Details of gender sensitization programmes

C-CASH Event was specifically addressed for lady staff and students. A member from each department is in CCASH.

To mark the International Women's Day which falls on the 8<sup>th</sup> of March, the Complaints Committee Against Sexual Harassment (CCASH) conducted a **talk on "Walking the tight rope: professional, social and personal aspirations of women"** by Dr. Ratnamma E. V (Retired Civil Surgeon from Govt. Service and an active member of Pain and Palliative Care Unit). The programme was scheduled on Thursday, 8<sup>th</sup> March 2018 at 3.00 pm in the Multimedia Hall.

An awareness program was organized from 6<sup>th</sup> November to 10<sup>th</sup> November, 2017 on the rights of women and rules under the prevention of workplace harassment act, notified by the Government to the student community. Student representatives from each department along with the faculty in charge of CCASH from the respective department addressed each class & **15 minutes awareness talk was given on sexual harassment. Poster competition** was also conducted on Sexual Harassment. The programmes were conducted under the leadership of CCASH Co-ordinator, Dr. Aysha Zeneeb Majeed, DCE & Student co-ordinators, Anjusha K V, Aswathy Lal & Nithya Lalichan of S5 CE.

### 5.9 Students Activities

#### 5.9.0 No. of students participated in Sports, Games and other events

State / University Level	116
National Level / Inter University Level	12
International Level	NIL

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### 5.9.1 No. of students participated in cultural events

Cultural Events	Count
State / University Level	124
National Level / Inter University Level	5
International Level	NIL

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events: **Sports :**

State / University Level	60
National Level / Inter University Level	NIL
International Level	NIL

### 5.9.3 No. of medals /awards won by students in Sports, Games and other events: **Cultural:**

State / University Level	45
National Level / Inter University Level	8
International Level	NIL

### 5.10 Scholarships and Financial Support

	Number of students		Amount in Rs
Financial support from Institution/	43		26,36,500
Financial support from government	62		49,91,540
Financial support from other sources	8		1,00,000
Number of students who received International/ National recognitions	National	International	
	6	26	-

### 5.11 Student organized / initiatives Fairs:

State/University Level	2
National Level	NIL

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Student organized / initiatives Exhibition:

State/University Level	2
National Level	NIL
International Level	1

5.12 No. of social initiatives undertaken by the students - 14

5.13 Major grievances of students (if any) redressed:

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## **Criterion – VI** **6. Governance, Leadership and Management**

### 6.1. State the Vision and Mission of the institution

#### **VISION**

To evolve into a premier technological and research institution, moulding eminent professionals with creative minds, innovative ideas and sound practical skill, and to shape a future where technology works for the enrichment of mankind.

#### **MISSION**

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

### 6.2. Does the institution have a Management Information System

- Yes, the institution has its own internally developed management information system (Rajagiri Student Management System (RSMS)) to manage general administration, academic activities of students and faculty members, various feedback reports and other RSET activities.
- RSMS is updated for as two sections with RSMS-MGU and RSMS-KTU for handling the requirements for both Mahatma Gandhi University (MGU) and APJ Abdul Kalam Technological University (KTU).

### 6.3. Quality improvement strategies adopted by the institution for each of the following:

#### 6.3.1. Curriculum Development

- Rajagiri School of Engineering & Technology was affiliated to Mahatma Gandhi University, Kottayam, Kerala up to admissions in the year 2014. From 2015 onwards, B.Tech and M.Tech admissions are under APJ Abdul Kalam Technological University (initially Kerala Technological University), a State Government University set up as part of the educational reforms in the technical education sector initiated in the state. In the academic year 2017-18, RSET had students studying under both MGU and KTU.

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- The institution does not have any flexibility of curriculum other than to follow the curriculum prescribed by the university to which it is affiliated. Faculty members from the college have contributed significantly to the development of curriculum during syllabus revision meetings conducted by MGU and KTU.
- The department's advisory committee meets every year to identify the gaps in the curriculum (as discussed and suggested by eminent academics and industry experts) and look at courses/lectures that need to be augmented to the curriculum to bridge the gap. The output of this meeting would be add-on courses, guest lecturers / workshops and enhanced laboratory experiments, thereby making the students industry ready.

### 6.3.2. Teaching and Learning

- Semester plan is prepared and made available through RSMS in accordance with the academic calendar published by the university prior to the start of a semester. Separate semester plans are prepared for KTU and MGU requirements.
- All faculty members prepare and update the course plan in RSMS regularly.
- Implementation of outcome based education
- Defining course outcomes to meet programme outcomes
- Identifying content delivery method, gaps and content beyond syllabus
- Assessing the students using various evaluation techniques for the attainment of course outcomes
- Preparation and updation of course files
- Regular academic audits are carried out in the institution for ensuring effective teaching
- Mentoring: Each faculty is assigned a group of student mentees. Periodic interaction with mentees is carried out for proper monitoring and guidance
  - KTU mentors are provided with students' activity books that are maintained by the mentor, to systematically record all the activities that the particular mentee has completed during the course
- Previous years' question papers and study materials are available in the digital library
- Industrial visits, internships, invited talks, mini and major projects are conducted
- Students' performance is monitored through continuous assessment involving class assignments, tutorials, mid semester and model examinations
- Workshops / hands-on- session on tools and languages related to the elective subjects in S6 were conducted in 2017-18

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- Add on courses are conducted by considering the suggestions from the Department Advisory Committee based on the course outcomes

## 6.3.3. Examination and Evaluation

### Exam Cell

MGU Exam Cell functions in a systematic and disciplined manner under the guidance of Mr. Jebin Francis, and KTU Exam Cell functions under Dr Rithu James and Mr. Harikrishnan C. The exam cell, functioning in the college, takes care of all the internal and external examinations conducted in the institution for B.Tech and M.Tech students.

### Paper Valuation Camp Functioning at RSET

KTU B.Tech Valuation is held at Rajagiri Campus where faculty from Rajagiri School of Engineering and Technology (RSET ) and Toc H Institute of Science and Technology evaluate the answer sheets based on the valuation scheme provided by KTU. Dr. Antony Varghese is the Camp Officer, and Mr. Ajay V. Babu, and Mr Paul Augustine are the Assistant Camp Officers. Evaluation is scheduled as per the university instructions, when faculty report to the respective year chairman.

KTU M.Tech Valuation for M. Tech Ernakulam 1 Cluster is held at Rajagiri Campus where faculty from Rajagiri School of Engineering and Technology (RSET ) , Federal Institute of Science and Technology (FISAT), Toc H Institute of Science and Technology, and Adi Shankara Institute of Engineering & Technology perform the evaluation. Answer sheets are evaluated based on the valuation scheme provided by KTU.

MGU Valuation camp for regular S7 and S8 along with Supplementary Examinations is carried out at the SCMS Muttom camp. Faculty members report for their duties as instructed by the university.

### Internal Exams and Assessment Details

- Students must take all the examinations and tests conducted in the college. Absence from an examination/test will result in the forfeiture of their sessional
- Question paper scrutiny committee performs the following to maintain the standards
  - (a) verify the difficulty level of the questions
  - (b) Check the Question to CO mapping

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➤ Sessional calculation

MGU:

- There were two examinations: mid-semester and model for the MGU students. They formed part of the Internal Assessment. Comprehensive examination was given to those students who were absent from the examination and had taken prior permission from the class teacher and HoD on valid medical grounds
- The mid-semester examination was conducted after completion of Modules 1 to 3, and the model examination included the whole syllabus
- The sessional marks breakup was as given below:

Breakups	Marks
Examinations	30 (marks will be allotted proportionately)
Assignments	10
Attendance	10
Maximum Marks	50

KTU:

- There are two series examinations namely Series 1 covering modules 1 and 2, and Series 2 covering modules 3 and 4. They form a part of the Internal Assessment. (Retest examination is given to those students who were absent for the examination and had taken prior permission from the class teacher and HoD on valid medical grounds)
- The sessional marks breakup is as given below:

Breakups	Marks
Series 1	20
Series 2	20
Assignments	10
Maximum Marks	50

- Late/non submission of assignments (which are part of the Internal Assessment) results in reduction of sessional

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- The progress report of the students are sent to the parent/guardian after each test, and Open House is conducted to facilitate parent-teacher interaction
- Semester-end examinations were conducted by M. G. University for final year B.Tech students and by KTU for all the other students.
- Criteria of appearing and passing a particular subject :
  - As per MGU norms:
    - A candidate shall be declared to have passed in an individual subject of a semester examination if he/she secures not less than 40% marks for the subject in the university examination and not less than 50% of the total marks of the subject i.e. university examination marks and sessional marks in that subject put together.
  - As per KTU norms:
    - A candidate shall be eligible to appear for their end semester examination, only if they have secured the minimum marks (45% marks) and (75 % attendance) for that particular course. Ineligible students need to make-up for the shortage.
    - Eligible students who appeared for the end semester university examination are declared to have passed in the individual subject of the semester examination, if he/she secures not less than 45% marks for the subject in the university examination.

### 6.3.4. Research and Development

- RSET offers research programmes leading to PhD degree under KTU .
- Constitution of DC- PhD 2017-18 Odd Semester was held in November 2017 and the following PhD candidates successfully completed their DC.
  1. MS. AMBILI MOHAN, Part time
  2. MR. KRISHNA KUMAR K. P., Part time
  3. MR. HARIKRISHNAN C., Part time
  4. MS. SWAPNA DAVIES, Part time
  5. MS. PRATHIBHA P. K., Part time
- Research is considered as an integral part of the academic activities of the college.
- RSET management promotes research by granting incentives for publications in journals and conferences.

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### 6.3.5. Library, ICT and physical infrastructure/instrumentation

- Rajagiri School of Engineering & Technology (RSET) has 38.054 acres of land with 93165 m<sup>2</sup> built up floor space
- Academic ambience is enhanced by modern furniture, improved infrastructure and state of the art facilities in classrooms (ICT enabled) and laboratories
- Hostel accommodation is provided for boys and girls
- The college has 20 buses and 1 light passenger vehicle and 3 private vehicles
- The college has a canteen facility with a seating capacity of 300
- The college has telecom facility of BSNL with PRI connections with 30 channels that are in use and every department, section, lab and all supporting service locations have telephone access through intercom network installation capacity (Main Building – analog extension -160 and digital extension - 8 Numbers, KE Block – Analog extension 160 Numbers , PG Block -96 Numbers )
- The college has two 1000 kVA (11KV/430 supply) transformers installed in the campus catering to the energy needs of the campus. As a backup, the institution also has standby diesel generators of 500 kVA , 320 kVA and 660 kVA amounting to equal backup support in the event of power failures
- The college has Reverse Osmosis Plant (3000 liter/hr capacity) to serve the drinking water requirement in the campus
- In 2017-18 a new Sewage Treatment Plant was commissioned beside the Chavara Hall with capacity 32kW (total) of which 16kW is used to meet the requirements, and the remaining is standby
- To meet the increased needs of hostel facilities for men “Sanjoe 2 Annex” has been commissioned and is operational
- The campus has its exclusive security services to provide safety and 24 hours protection to the college, hostels and its belongings
- RSET is networked and internet enabled through a 24/7, 150 Mbps 1:1 leased line (90 Mbps Asianet & 60 Mbps Vodafone). Leased lines are connected through a firewall. RSET also has 10 Mbps NMEICT connectivity on fiber

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- RSET has a well-furnished central library with modern amenities with a total area of 685.21 Sq.m. and a seating capacity of 201. The library functions from 8.00 a.m. to 8.30 p.m. on all working days and 9.30 a.m. to 4.00 p.m. on Sundays and holidays
- RSET has a digital library equipped with institutional repositories (Faculty collection, Previous University question papers, etc.), video lectures and E-Journal packages [1. ASCE 2. ASME 3. IEEE/IEEE All-Society Periodical Package (ASPP) + IEEE Proceedings Order Plan ALL (POP ALL)]

### 6.3.6. Human Resource Management

- Manpower planning is carried out every year in the month of May by considering the faculty workload in each department. The HoDs prepare the department workload as per the guidelines for the coming academic year (both odd and even semesters). A copy of the consolidated faculty requirement, along with a copy of the approved department faculty workload, is submitted to the Principal by the Heads of departments. The Principal scrutinizes the department faculty workload and after necessary modifications, if required, gets it approved by the Director.

### 6.3.7. Faculty & Staff recruitment

- Vacancies arising from time to time shall, as required, be notified in the leading newspapers as decided by the management. The advertisement specifies the minimum qualifications and other requirements for the post(s) subject to meeting the norms prescribed by AICTE or other competent authority

### 6.3.8. Industry Interaction/Collaboration

- **Signing of MOU with Hochschule Aalen (Aalen University), Germany**

Period: 23rd August 2017

Key Initiators: Fr. Dr.-Ing. Varghese Panthaloorkaran, RSET and , Prof. JürgenTrost, Aalen University

Thrust areas of collaboration: Academic and cultural interchange in the areas of exchange, teaching, research, transfer and other activities.

Activities: Student exchange programs enables students from each institution to study, conduct research, projects & internships at the other. Faculty exchange

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programs will create opportunities for faculty such as conducting research, teaching, knowledge sharing activities etc. The MoU envisages a permanent representation office at RSET as a part of Rajagiri Institute of Future Technologies (RIoFT), an institute meant for developing technologies of the future in collaboration with industries which will host staff and students from both universities that are working on common research and transfer projects. Services to the local industries could be channeled through this representation office to make it self-sustainable.

- Industry institute cell has been setup with the objective of promoting interaction between industry and institute
- Cell organizes industrial visits, industrial training, seminars, workshops, technical talks etc.
- Coordinators: Dr. Thankachan T. Pullan , Dr. AyshaZeneeb , Ms. Saritha S. , Dr. Anand S. , Fr. Thomas P.J. , Ms. Sangeetha Jamal , Mr. Unnikrishnan L .
- The faculty members regularly conduct seminar and workshops internally as well as at external institutions and industries. In the academic year (2017-18) some of our faculty members were resource persons at a number of seminars and workshops which include
  - On June 14<sup>th</sup> 2017 and October 28<sup>th</sup>, 2017, Prof K S Mathew was the resource person for handling sessions in PMP training organized at Kochi by PMI Trivandrum for project managers. He has done the same training on December 17<sup>th</sup> and 23<sup>rd</sup>, 2017.
  - Ms .Shimmi Asokan delivered a speech on Program Specific Activities for NBA accreditation in an Orientation Workshop on NBA accreditation organized by Department of Computer Engineering, Kerala Government Polytechnic College, Kozhikode on July 14<sup>th</sup>, 2017.
  - Mr. Joseph John was a resource person for the international faculty development programme for High Performance Computing and Data Science, organized by Departments of CSE and IT of RSET at Sunya Labs, RSET for faculty members of various colleges and people from various industries.
  - In November 2017, Mr. Joseph Ponnoly, an industry representative, took a session on Machine Learning and Artificial Intelligence/Robotics and Crypto-currencies and Block Chain at Sunya Labs, RSET.

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### 6.3.9. Admission of students

#### **B. Tech Programme**

- Admission is strictly on the basis of merit.
- Students having a pass in Higher Secondary Examination of the Board of Higher Secondary Education of Kerala or an examination recognized equivalent thereto with at least 50% mark in Mathematics separately, and 50% marks in Mathematics, Physics and Chemistry put together are eligible for admission.
- He/She should be qualified in Kerala Engineering Entrance Examination for being eligible for admission in all seats, other than NRI quota.
- 50% of the total seats in B. Tech courses are set apart for centralized allotment by the Commissioner for Entrance Examinations. 15% of seats within sanctioned intake is provided for NRI category and is given on the basis of marks obtained for PCM in 12th standard. Remaining seats are Management seats, allotted on merit by ranking applicants on the basis of marks obtained for PCM (12th standard only) and for Kerala Engineering Entrance Examination.
- Nationality: - Candidates must be Citizens of India.

#### **M. Tech Programme**

- Eligibility will be subject to the rules and regulations of KTU /AICTE
- The candidates shall be citizens of India.
- Academic Requirements: Candidates should have a minimum of 60% aggregate marks in BE / B. Tech in the respective discipline.
  - For M.Tech. COME : At least 60% marks in BE / B.Tech in ECE/AEI/AE/ETCE
  - For M. Tech. CSIS : At least 60% marks in BE / B.Tech in CSE/IT.
  - For M. Tech. IDAC: At least 60% marks in BE / B.Tech in EEE.
  - For M. Tech. SP: At least 60% marks in BE / B.Tech in AEI/ EIE/IC/ ECE/EEE
  - For M.Tech. NE: At least 60% marks in BE / B.Tech in CSE/IT
  - For M. Tech. VAES: At least 60% marks in BE / B.Tech in ECE/AEI/AE/ETCE
- For SC/ST candidates reservations are also provided.

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### Reservation under various categories:

\*SC/ST – Schedule Caste/Schedule Tribe, \*\* SEBC – Socially and Economically Backward

	Allotment by the college from the list published by DTE				College merit				TOTAL
	Open merit	SC/ST*	SEBC**	Physically handicapped	Open merit	Christian Community	Syro Malabar Catholic	NRI	
COME	8	2	1	1	3	2	3	4	24
CSIS	8	2	1	1	3	2	3	4	24
IDAC	8	2	1	1	3	2	3	4	24
SP	6	1	1	1	2	1	3	3	18
NE	6	1	1	1	2	1	3	3	18
VAES	8	2	1	1	3	2	3	4	24

### Community

- Candidates who have appeared for final examination of any of the qualifying examinations may also apply provided he/she has passed all the subjects up to and including 7th semester. Selection of such candidates shall be subject to the production of qualifying degree at the time of admission.

### 6.4. Welfare Schemes for

Teaching	Gratuity, Staff Welfare Fund
Non teaching	Staff Welfare Fund
Students	Merit Scholarships

6.5. Total Corpus fund generated – Rs. 33,92,02,992/-

6.6. Whether annual financial audit has been done

Yes  √

No

6.7. Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Agency
Academic	Yes	KTU	Yes	IQAC
Administrative	Yes	University	No	

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6.8. Does the University/Autonomous College declare result within 30 days?

For UG Programmes Yes  No

For PG Programmes Yes  No

The results are declared by the university. The institution has no direct control over the publication of results.

6.9. What efforts are made by the University/Autonomous College for Examination Reforms?

- NA

6.10. What efforts are made by the University to promote autonomy in the affiliated/constituent colleges

- NA

6.11. Activities and support from the Alumni Association

Each department has a faculty advisor for coordinating alumni activities

- Alumni association
- Arrange periodic meetings of alumni
- Ensure alumni registration
- Prepare alumni news letter
- Maintain records of alumni and the meets that take place
- Proposing annual budget

6.12. Activities and support from the Parent-Teacher Association

- PTA has an executive committee comprising the parents of students' branch wise and year wise and the representatives of the faculty including Director and the Principal
- Committee meets at least twice in a year to discuss all matters of interest

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### 6.13. Development programmes for support staff

- To improve the skill of the support staff, the college deputed the members of the staff to undergo training and workshops organized by other institutions, universities and govt. organizations
- In house training programmes are also arranged by various departments to cater to the needs of the support staff

### 6.14. Initiatives taken by the institution to make the campus eco-friendly

- Plenty of trees and plants are planted and properly maintained to make the campus eco friendly
- Exclusively appointed gardeners take care of the lawn and the greenery of the campus

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## Criterion – VII

### **7. Innovations and Best Practices**

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Internal Academic Audit has been automated
- Question Paper Scrutinizing Committee has been instructed to ensure more logical questions for internal evaluation
- Department Assessment Committee is monitoring PO-PSO attainment evaluation
- Connectivity through skywalk has been established between all the academic buildings and this helps the students with physical disability
- Faculty members are directed to practice the best content delivery methods to attain programme outcomes through course outcomes
- Faculty members are directed to analyze PO-PSO assessment, and thereby take measures to improve the performance of students in attaining course outcomes
- Entrepreneurship Development Cell conducted activities to enhance entrepreneurial skill sets among students
- GATE coaching classes have been conducted for students to promote higher education
- Preparatory courses and practice classes for lab were provided to the students
- College also organized international conferences / workshops and guest lectures in various domains by experts from industry and world renowned academia for the students
- Institution regularly conducts career development programmes to develop student skills
- Students are given awareness class on POs and PEOs of the respective departments
- Projects have been taken up and executed in association with KMRL, Aalen University, NeST and Rajagiri Hospital as part of faculty interaction with outside world
- SUNYA LABS with 3 main facilities - High Performance Computing Laboratory (HPC Lab), Cloud Computing Lab and Fab Lab has been set up to promote research activities and student projects
- Lightly loaded scheme is introduced to promote faculty qualification
- New facility for advanced computing, partially funded by Cognizant (CTS), has been set up in the Department of Information Technology for research related work
- Established Materials Lab as per KTU Syllabus and the software facility in CAD Laboratory was upgraded by installing analysis software package ANSYS 19
- Mock placement drives were conducted for students of Department of Civil Engineering

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- Peer study groups were formed (Departments of Civil Engineering, and Information Technology) with a maximum of 4 students which include students of varying levels of capacity so that the bright students can support the weak students to clear their back papers and this would in turn be helpful for GATE exam preparation
- Lab training was given for faculty members and technical staff for handling the newly introduced lab courses
- Orientation programmes have been conducted for first year students
- Distinguished Lectures have been organized
- Faculty Induction Program has been conducted for newly joined faculty members
- The number of PhD supervisors has increased

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Plan of Action	Achievements
To organize at least one International level program for each department in a year	<ul style="list-style-type: none"> <li>• International Conference (ICACC2017) organized jointly by CS, EC and IT Departments</li> <li>• ME, CE and EEE departments jointly organized International Conference on Green Buildings and Sustainable Engineering (GBSE 2018)</li> </ul>
Strengthen the NBA activities	NBA visit was successfully completed
Filing and documentation has been streamlined	Each department presented its file list and the list of files to be maintained in all departments was finalized by IQAC. Each department has done a mapping of the existing files to the new file list and has updated files accordingly
Motivate the faculty members to submit research proposals to funding agencies	<p>More number of funded projects has been started</p> <p>(1)“Development of Electrically conducting reinforced Elastomer Composite System”. Dr. Sreekumar V. M, Co-PI with Dr. Gigi George (CMS College Kottayam) as PI Funding: KSCSTE, Grant under TDAP, Rs. 9 Lakhs</p> <p>(2)“Fabrication of chamber to produce good quality coconut charcoal”. Co-PI- Mr. Akash James. Funding: KSCSTE, Grant under RTP, Rs. 1.65 Lakhs</p>
Encourage faculty to publish quality conference/journal papers	More number of publications in Scopus indexed and Science Citation Index journals

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Strengthen the Professional Association activities	Activities have been regularly organized by all the associations
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### 7.3 Give two Best Practices of the Institution

#### 1. Title: Distinguished Lecture Series

**Goal:** Since 2003, Rajagiri Distinguished Lecture Series (DLS) has contributed to broadening the educational experience of Rajagirians including students and the faculty community, by bringing the smartest, most engaging, and influential people to campus, to encourage thought provoking conversations and ideas.

**The Context:** Rajagiri Distinguished Lecture Series (DLS) gives sponsored lectures through which we strive to achieve our mission of seeking and spreading powerful ideas, while also allowing passionate and dedicated students to be exposed to a diverse and vibrant array of people, backgrounds, and ideas. DLS is intended to encourage the interaction and promote discussion and exchange of ideas between the invited speakers and Rajagirians.

**The Practice:** Rajagiri School of Engineering and Technology (RSET) conducts Distinguished Lecture series where eminent personalities address the gathering. The complete list of Distinguished Lecture Series held to date is provided below:

1	Dr Joshy George, Associate Director, The Computational Sciences Group in the Jackson Laboratory for Genomic Medicine in Connecticut, USA
2	Prof. Dr Inder K. Rana, Professor Emeritus, IIT Mumbai
3	Dr Vijayan Ansari, Professor and Endowed Chair in Wide Area Surveillance, University of Dayton, USA
4	Dr Ajay Kumar Varma, Technical Advisor to Govt of Kerala, Haritha Kerala Mission
5	Shri. T.P. Sreenivasan, Director, NSS Academy of Civil Services and Director General, Kerala Industrial Center, TVM
6	Dr Raman Menon Unnikrishnan, Professor of Electrical and Computer Engineering, College of Engineering and Computer Science, California State University, Fullerton
7	Dr Ramesh Sankaranarayanan, Australian National University
8	Prof. Michael Pfeffer, PVC, Ravensburgh University, Germany
9	Prof. C.V. R. Murty, Director, IIT Jodhpur
10	Prof. Andy C. McIntosh, Leeds University, UK
11	Prof. P.S. Sastry, Dept of Electrical Engineering, IISc, Bangalore
12	Dr. Benny Chor, School of Computer Science, Tel-Aviv University, Israel
13	Dr. Shashi Tharoor, Member of Parliament

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14	Prof. Dr. -Ing. Habil. H. Müller-Steinhagen, Director, Institute of Technical Thermodynamics, German Aerospace Center
15	Mr. George Koshy, Project Director PSLV, Vikram Sarabhai Space Center, Trivandrum
16	Prof. Suhas P. Sukhatme, Former Director, IIT Mumbai
17	Dr. Henry F. Schaefer, Director, Center for Computational Quantum Chemistry, University of Georgia
18	Dr. Andre Pittet, CTO, CEDT, IISc Bangalore
19	Shri M.M. Jacob, Governor of Meghalaya
20	Dr. V. Rajaraman, IISc Bangalore
21	Dr. P.P. Divakaran, Former Professor, TIFR, Mumbai

Evidence of Success: Invited speakers who encompass a broad range of interests, and activity profiles, who are at different stages of the professional career, and those who have risen significantly above their peers in one or more aspects of their activity are selected for this unique interaction.

### 2. Title of the Practice: Organizing International Conferences for knowledge transfer

Goal: Initiative in organizing International Conferences to provide a forum for sharing insights, experience and interaction on various facets of evolving technologies in different engineering disciplines.

The Context: To provide the most relevant opportunity to bring together students, researchers from both academia and industries for enhancing the research culture at RSET.

The Practice: Conference brochures are prepared and published in website. Papers are first invited from various participants and a scrutinizing committee selects the final papers to be presented in the conference depending on the quality of the paper.

Evidence of Success: International Conference on Advances in Computing and Communications (ICACC-2017) was conducted from August 22 to 24, 2017. It was the seventh edition of this prestigious conference. The first edition of the International Conference on Green Buildings and Sustainable Engineering (GBSE 2018) was conducted on January 24 and 25, 2018.

Problems Encountered and Resources Required: Giving publicity about the conference among international universities was difficult.

### 7.4 Contribution to environmental awareness / protection

# Annual Quality Assurance Report

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## Environmental friendly campus

- Each block of the building and playgrounds are surrounded by large green lawns, trees and plants which maintain a healthy and balanced environment
- RSET TREE (Together Restoring Environment Effectively) Nature club organizes nature conservation activities, study trips, quizzes, bird watching trips etc
- Cycle campaigning trip and trekking are also undertaken

## International Conference to promote research and awareness in sustainable environment

- International Conference on Green Buildings and Sustainable Engineering (GBSE 2018) provided a forum for presenting and discussing innovative research on a broad range of topics in the fields of sustainable and energy-efficient practices for a more sustainable planet

## Energy Conservation

- The college has been conscious about energy conservation for which it has constituted an Energy Conservation and ENCON club to promote energy conservation awareness among students and society.
- The college is replacing the CRT monitors with LED monitors thus conserving energy to an extent
- The college also promotes procurement and installation of efficient electrical systems to save electricity

## Use of Renewable Energy

- The college has a tie-up with Renewable Energy Centre MITHRADHAM, Chunangamveli, which promotes Solar Energy awareness among the student community
- A Bio-Gas plant has been established at the hostel and canteen to produce cooking gas from bio-degradable waste
- A Solid-waste management unit is functional to segregate plastic, glasses, papers etc
- NSS volunteers of RSET organized a fund raising programme on February 18, 2018 by collecting paper waste from RSET campus. 30 students participated in the half day programme. 1300 kg of paper waste was collected

## Water harvesting

- A network of ponds is maintained in the campus to ensure continuous recharging of the ground water table

## Annual Quality Assurance Report

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### **SWACH BHARATH PROGRAMME (EndeKulam-Ernakulam)**

- RSET-NSS volunteers participated in "EndeKulam-Ernakulam" (Cleaning the ponds) programme. This programme is an initiative of the Ernakulam District Collector. 30 students from RSET participated in the programme. Volunteers were engaged in cleaning the Thiruvanoor Panchayath pond on April 23, 2017(Sunday) from 8.30 a.m. to 3.30 p.m.

7.5 Whether environmental audit was conducted?

No

7.6 Any other relevant information the Institution/Department wishes to add. (for example SWOT Analysis)

The institution regularly conducts an Annual Retreat during June-July every year to take stock of the performance of the previous year and draw up the plans for the next year. The aspects covered in these sessions include academic performance, faculty development, research and extension, industry linkages, and infrastructure development to name a few. Every department makes a presentation highlighting its achievements in the previous year, and plans for the future. This exercise serves as a blueprint for institutional development.

RSET's main strengths:

- (1) Managed by religious congregation which has made its mark in the sphere of education and social reform
- (2) The leadership comprises people with proven credentials in academics, research, and administration
- (3) Faculty members with research and industrial experience
- (4) Supportive alumni network spread across the world
- (5) One of the most sought after colleges in the state for engineering education as evidenced by the admissions
- (6) Highest intake in the state for undergraduate programmes in engineering
- (7) Approved centre of research in six disciplines, with twelve research supervisors and the highest number of research scholars in the university
- (8) Active and vibrant student community with international students also on the rolls
- (9) Strong industry partnerships and academic linkages
- (10) Located in the suburbs of the city of Kochi, with easy accessibility to the industrial belt of Kerala and the Infopark
- (11) Excellent infrastructure facilities

## Annual Quality Assurance Report

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Areas which need attention:

- (1) Sponsored research projects and consultancy
- (2) Attracting and retaining faculty members with industrial and research expertise
- (3) Scope for reaching out to the underprivileged and downtrodden through more socially relevant extension activities than those conducted now
- (4) Promoting industry oriented short term courses for unemployed youth

RSET sees the opportunity:

- (1) To be an autonomous institution and gradually a deemed university
- (2) To develop as a centre for academic and research activity in the emerging fields of science and technology, drawing on the research work of the faculty and students

The main challenges are:

- (1) The downward trend in preference for engineering courses amongst the youth
- (2) Improving the standards of engineering education collectively in the state

## **8. Plans of institution/department for next year (2018-2019)**

### **DEPARTMENT OF APPLIED ELECTRONICS AND INSTRUMENTATION**

#### **(a) Academic**

- Conduct short term courses to fill gaps in syllabus
- Arrange remedial/ coaching classes during Saturdays
- Conduct prerequisites classes for critical subjects like SSD, NT, Electronic Circuits...
- Motivate students to join online courses
- Simulation tools/ High level programming language classes for PG students

#### **(b) Co curricular (to include Professional Association activities)**

- Allow students in peer team to visit core industries
- Involve students in industry oriented projects
- Join students in professional body like ISA- International Society of Automation and conduct activities
- Promote students to involve in IEDC activities
- Offer students competitions like Prototype development, Quiz & Idea Presentation

#### **(c) Research, Consultancy & Extension**

- Defining students projects through three Research Groups
- Certified courses for teachers to be provided with available resources like LabVIEW, Matlab that leads to consultancy
- Involvement in research, through BIRDS (Bio Instrument Research and Development) activity involving Rajagiri Hospital & NeST Technologies and internships in NPOL, ISRO, Bosch...
- Through intensive interactions and workshops, organized by BIRDS, department can facilitate a center for developing products in medical diagnosis and therapy.

#### **(d) Faculty Development**

## Annual Quality Assurance Report

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- All faculty members to attend relevant FDPs/ Workshops by reputed institutes
- More International / Journal publications can be encouraged in their research areas
- Organize FDP on Machine Learning and Industrial Automation

### **(e) Infrastructure Development**

- More project oriented hardware can be purchased in lab.
- ICT enabled laboratory for easy demonstration of experiments

### **(f) Alumni activities**

- Organize Alumni Meet
- Organize interactive sessions with alumni
- Improve on industry interactions through tie-ups/alumni
- Internships/ placements through alumni

### **(g) Innovations & Best Practices (to be implemented)**

- Increase product oriented student projects, which helps in patent filing.

### **(h) Others**

- Motivate our students to offer technical sessions to the school students
- Identify socially relevant projects

## DEPARTMENT OF CIVIL ENGINEERING

### **(a) Academic**

- To conduct peer group competition for improving results by conducting competitions including quizzes between peer groups conducted on a regular basis
- To organize one day business plan for the third year students for improving practical knowledge
- Conduct add on courses for the final year students
- Conduct Software courses for the students
- Conduct remedial classes at frequent intervals from the 2nd week itself after the commencement of regular classes

### **(b) Co curricular (to include Professional Association activities)**

- Formation of IGS student chapter and conduct activities of IGS student chapter

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- To organize inter-college Tech Fest under the banner of ICI RSET student chapter
- To organize technical activities weekly by Civil Association NIRMANA and ICI RSET Student Chapter
- To conduct industrial visits to Water Treatment Plant, RMC Plant, Metro construction sites, Cochin shipyard, CIAL etc.
- To organize invited talks/lectures, one workshop on Green & Sustainable Habitat, Concrete mix design etc

## **(c) Research, Consultancy & Extension**

- Proof Checking- Checking of design and offering suggestions for construction companies such as Geo structures, SreeGiri constructions etc.
- To undertake consultancy works for testing of building materials, soil etc. in lab.
- To identify industry oriented/ socially relevant projects for design project and final year main project to focus on current industrial/social needs
- Undertake funded projects from organizations like DST, CERD etc.

## **(d) Faculty Development**

- Faculty Internships to improve technical knowledge and skills by identifying companies in which the faculty members can work for a period of one month
- Faculty Seminar for skill development by conducting seminar series for faculty members
- All faculty members will attend relevant FDPs by eminent institutes
- To conduct workshops and short term courses
- To organize International Conference, GBSE 2019 jointly with DME & DEE

## **(e) Infrastructure Development**

- Purchase Ultra sonic pulse velocity equipment, cube mould in Material Testing Lab II
- Purchase A3 Printer in computer applications lab
- Purchase Radar Gun & Bump Integrator in Transportation Engineering Lab
- Purchase Portable DO Meter & Fume hood in Environmental Engineering Lab
- Purchase Strut Testing Machine & Rotating Bending Fatigue Testing Machine in Material Testing Lab I
- Purchase Hand Operated Soil Extractor & Soil Sampling Tubes Set in Geotechnical Engineering Lab.

## **(f) Alumni activities**

- Organize Alumni Interaction with current first years

## Annual Quality Assurance Report

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- Organize a technical Session with Alumni from industry – for second, third and fourth years
- To conduct Alumni Meet
- ‘Sponsor a school-child’ programme to be inaugurated by alumni

### **(g)Innovations & Best Practices (to be implemented)**

- Participation in National and international conferences and help students to publish in journals of high impact factor.
- Increase the number of skill development training programmes so that student will be in touch with the industrial requirements and also helps in developing the entrepreneurship qualities.
- Involve students in more group activities so that they develop a new approach towards learning and support each other better.
- Encourage students to participate in Technical fest organized by other institutions.
- Do it and learn out of the box- A task and number of solutions.

### **(h)Others**

- Industrial Workshop -Conduct Industrial workshops like cost estimation etc.
- To conduct a one day training programme for Masons of all the panchayats in Ernakulam District.

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **(a)Academic**

- The department talent cell identifies outstanding students and promote them to show case their talents by peer to peer learning.
- Organize remedial classes for weak students at frequent intervals after working hours and on Saturdays.
- Provide Question Banks with solved previous year’s questions for the theory courses before university exam for the weak UG students
- Incorporate more lab oriented classes for programming papers.
- Conduct bridge courses during the beginning of every semester.
- Provide programming/simulation assignments for PG students
- The department training cell conducts short term courses, workshops.
- The department placement cell conducts placement training program of duration one semester for both B. Tech and M. Tech students.

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- The department association organizes technical talks shared by experts in the industry and various competitions on technical events such as android development, debugging and coding, technical quiz.
- Best project award at the end of the academic year.
- Challenging projects offered by the Micro Project Cell in every semester.
- Solve GATE questions during tutorial hours.

### **(b) Co curricular (to include Professional Association activities)**

- Organize technical events as part of CSI.
- Provide coaching for certification courses like RHCE, CCNA by the technical staff.
- Organize final year project exhibition.
- Soft skill and aptitude training by the Placement cell.

### **(c) Research, Consultancy & Extension**

- The department is divided into various research groups.
- The department gives firm emphasis on research publications.
- The department has undertaken various consultancy projects over the years and will continue that in the coming year.
- Submit research proposals to funding agencies like DST, KSCSTE etc. every year.
- Each faculty member to produce at least one quality publication every year.
- Research projects in association with industries like KMRL.
- Offer technical workshops/add-on courses for school students to attract best performing students to RSET every year during April-May.
- Conduct computer Literacy programs every year.

### **(d) Faculty Development**

- The department FQIC (Faculty Quality Improvement) cell organizes and conduct short term courses / workshops/ FDP for the faculty members especially during every semester break.
- FDP on Bitcoin and Cryptocurrency (Jan 2019)
- FDP on Project Management(May 2019)
- Promote faculty to attend FDP/Workshop/MOOC courses on the paper they are handling before the semester begins.
- Promote all the faculty members to acquire Ph.D.

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## **(e) Infrastructure Development**

- New computer lab to meet the requirements of increased intake to be commissioned by August 2018.
- Improving the utilization of SUNYA lab by giving projects to be implemented using HPC facility every year.
- Enhance RSMS by including additional facilities.

## **(f) Alumni activities**

- Organize motivational talks with successful alumni as resource persons
- Improve on industry interactions through tie-ups/alumni
- Include Alumni link in department website.
- Discussion forum between Alumni and students for main project implementation.

## **(g) Innovations & Best Practices (to be implemented)**

- Improve/increase product oriented student projects
- Start Internship Cell for final year students
- Motivate students to do online certification courses that improve the competency.

## **(h) Others**

- Team Building activity for faculty members

## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS**

### **(a) Academic**

- Provide Hardware/simulation workshops for students
- Encourage outstanding performers to take up online courses like MOOC , Coursera , NPTL

### **(b) Co curricular (to include Professional Association activities)**

- Conduct Professional Body Membership Drive
- Conduct training to provide value addition (in association with SIGMOS)

### **(c) Research, Consultancy & Extension**

- Increase social awareness activities
- Coordinate a Track in ACC 2018(Track Chair from DEE is Dr. Elizebeth Rita Samuel)
- Conduct GBSE 2019 in association with Mechanical & Civil departments.

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## **(d) Faculty Development**

- Faculty should individually /as group conduct workshops /Training programs for students
- All faculty should attend Faculty Development Program (preferably greater than 5 days) based on their research interest / subject preference for upcoming semester.
- Conduct seminar series (one hour talk on their competent area or as sharing knowledge with colleagues.
- Organize Workshop/ Hands-on Classes on Simulation Tools for faculty members (Teaching / technical Faculty )

## **(e) Infrastructure Development**

- Purchase of PSCAD software

## **(f) Alumni activities**

- Organize motivational talks with successful alumni as resource persons

## **(g) Innovations & Best Practices (to be implemented)**

- Improve/increase product oriented student projects
- Motivate students to do online certification courses that improves the competency

## **(h)Others**

- Conduct Project Competition- Eluxtra

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

### **(a)Academic**

- Poster Presentation
- Micro- projects
- Micro-project exhibitions
- PCB design
- MATLAB for signals and systems
- PIC Microcontroller
- TinaTi
- Arduino
- MATLAB for communication
- IC design and embedded systems

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- Hspice
- LABVIEW

## **(b) Co curricular (to include Professional Association activities)**

- Electronauts day

## **(c) Research, Consultancy & Extension**

- Extension activity - eWaste management, LED light assembling
- Consultancy - CARS project from NPOL to be sanctioned

## **(d) Faculty Development**

- 3 days IoT Workshop for Students and faculty (July/August).
- 5 days workshop on HFSS and CST for RSET faculty and M.Tech communication students.
- 5 days workshop on Zynq based Embedded System Design for Faculty/Students.
- 1 day workshop on optical Communication for Faculty/Students.
- 7 days workshop on Deep Machine Learning for Faculty/Students.

## **(e) Infrastructure Development**

- Infrastructure development for Opto – Microwave Lab

## **(f) Alumni activities**

- Motivational talks by alumni in the month of September.

## **(g) Innovations & Best Practices (to be implemented)**

Innovations:

- Add on courses for start up
- Initiatives for start-ups for both B-Tech and M-Tech

Best Practices:

- Collaborative teaching throughout the semester
- Peer group mentoring/learning during weekends and study leave, specifically for selected subjects (group of 6 students)
- Enrichment programme to be conducted after college hours
- Identify & train low performers to improve results
- Question banks to be discussed in class (for university, GATE)

## **(h) Others**

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## DEPARTMENT OF INFORMATION TECHNOLOGY

### (a) Academic

- Provide programming/simulation assignments for PG students
- Provide Question Banks with analytical type questions for UG students
- Conduct short term courses and appropriate gap-filling courses for all subjects
- Organize remedial classes at frequent intervals on non-regular working days
- Encourage outstanding performers to take up online courses like MOOC and Coursera

### (b) Co curricular (to include Professional Association activities)

- Organize Communication Skill Development and Aptitude Development programs
- Organize Web Design Competition and Inter-Institute Project Competition
- Conduct Group Discussion on “ E-waste Management ” and Social Campaign on “E-waste Management”
- Start App Development Club for hosting APPS
- Conduct Professional Body Membership Drive

### (c) Research, Consultancy & Extension

- Research Group Reconstitution and Tie-ups for identifying socially relevant projects in association with IEDC (December 2018)
- Consolidation of identified socially relevant projects (June 2019)
- Create a channel and studio – Rajagiri communications – it can be an online radio – YouTube channel which contain program (IT) updates, interviews with eminent personalities in different areas.
- Associate with any NGO for the public service and also start projects with the help of other organization or companies
- Propose plans for utilizing the CSR fund of companies

### (d) Faculty Development

- All faculty members will attend relevant FDPs by eminent institutes
- Organize Workshop/ Hands-on Classes on Simulation Tools for faculty members

### (e) Infrastructure Development

- More licensed software can be installed for student projects
- Up-gradation of QUANTUM lab in terms of systems and utilities

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### **(f) Alumni activities**

- Organize Alumni Junction
- Organize motivational talks with successful alumni as resource persons
- Introduce a system for forwarding birthday wishes and festival greetings to all alumni
- Improve on industry interactions through tie-ups/alumni
- Utilize alumni to get consultancy works

### **(g) Innovations & Best Practices (to be implemented)**

- Improve/increase product oriented student projects
- Start Internship Cell for final year students
- Conduct Student Publication Drives
- Conduct “Challenge your Brain” – Research Idea Proposal Contest for PG students
- Develop a platform for hosting online competitions

### **(h) Others**

- Organize debate on “Futuristic Technologies – Boon or Bane” for UG students
- Organize Gaming Contest for B.Tech First Semester students
- Celebrate National IT Professional Day on September 18, 2018
- Technical Skill Enrichment App for Public

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **(a) Academic**

- Provide Question Banks with analytical type questions for UG students
- Conduct short term courses and appropriate gap-filling courses for all subjects.
- Organize remedial classes at frequent intervals.
- Encourage outstanding performers to take up online certification courses like NPTEL.

### **(b) Co curricular (to include Professional Association activities)**

- Provide training in CNC machining for students from the engineering background. Existing participation (70 students) to be extended to all the students as per MoU signed with HMT, Kerala.
- Conduct one day workshop on NDT training and inspection for S5 and S7 ME Students.
- Conduct NDT ASNT Level 2 International certification course for S5 and S7 ME students.

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## **Department Association (RealMechanica) activities:**

- Inaugural programme of the association for the academic year- Invited talk by an eminent personality for ME Students during the month of July 2018
- Autodesk fusion 360 – 3D modelling software training programme by BIM IT, Kochi, for S3 and S5 ME students during the month of Aug 2018
- ‘ENGINEERIA’- GLOBAL ENGINEERING QUIZ COMPETITION during October 2018 in association with CADD Centre, Aluva
- Seminar on Safety Engineering, Total Quality Management by Arbrit safety & Engineering Solutions during Feb 2019 for Final year students.
- ‘MECHAZINE’- Mechanical department technical magazine will be published during the month of March in every year. Objective of this magazine is to make students aware of latest technologies introduced and ongoing researches in the field of mechanical engineering, and to enhance the skill of technical writing among students.
- DEPARTMENT BULLETIN- A department bulletin will be published during the month of June and December, every year. The bulletin includes the highlights of programmes conducted by the department and student association, technical articles of students and faculty.
- ‘NEWSMECHERS’- DEPARTMENT NEWS LETTER – Newsletter contains the programmes conducted by students association and department, student awards, extracurricular activities conducted by department etc. during an academic year. It will be published at the end of each academic year during the month of June.

## **(c) Research, Consultancy & Extension**

- Organize International Conference GBSE 2019.
- Better association with industries through B. Tech projects.
- Increase the number of student projects undergoing at HMT.
- Plan to sign MoUs with KEL (Design analysis and electrical systems) and FACT (Safety Engineering)
- Identifying socially relevant projects in association with IEDC.

## **Consultancy:**

- MoU with Yextreme Technologies for on Job Training in CNC Turning Centre. Rs. 12,000/- worth precision jobs monthly from VSSC (ISRO) which could be enhanced.
- Discussion with HMT on research collaborations (Materials, Manufacturing, design of tooling parts).

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- Discussion with Tata Ceramics on avenues of research (Materials, Manufacturing techniques).
- Industrial participation in government funded research programmes at RSET.

### **(d) Faculty Development**

- Organize a six day National Level Faculty Development Programme “Engineering Simulations with ANSYS” in the month of July 2018.
- Conducting conferences and workshops as a part of quality improvement programme.
- Provide training in CNC machining for faculty members at HMT Kerala.

### **(e) Infrastructure Development**

- Enhancement of Heat Engines Lab and Material testing lab.
- Improvisation of labs by following faculty projects:
  - a) Jet impingement testing facility
  - b) Melting and casting facility
  - c) Vibration and buckling experimental setup
- Procurement of additional devices like (SEM: Scanning Electron Microscopy, Testing Machines...) based on the stream to conduct research activities.

### **(f) Alumni activities**

- Organize First Alumni Meet.
- Organize motivational talks with successful alumni as resource persons.
- Student-Alumni interaction through video conferencing.
- Improve on industry interactions through alumni.

### **(g) Innovations & Best Practices (to be implemented)**

- Improve/increase product oriented student projects
- Provide proper student support like peer group learning, alumni interaction, career guidance, expert & motivational talks etc. by identifying student capability.

### **(h) Others**

- Support institutional placement cell to explore the opportunities in core companies.

**RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY**  
(A CMI INSTITUTION)

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**RSET**

**RAJAGIRI SCHOOL OF  
ENGINEERING & TECHNOLOGY**

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*Striving for Holistic Excellence*

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**ACADEMIC HANDBOOK 2017**

(For A.P.J. Abdul Kalam Technological University  
B.Tech. & M.Tech. Programmes)

Name: \_\_\_\_\_

Roll Number: \_\_\_\_\_

Semester: \_\_\_\_\_

Branch: \_\_\_\_\_



## CMI EDUCATION POLICY STATEMENT

We, the Carmelites of Mary Immaculate, after the example of our founder Saint Kuriakose Elias Chavara, consider education as the integral formation of the human person for the fulfilment of his/her individual and social responsibilities.

Our educational endeavors aim at forming leaders who are intellectually competent, spiritually mature, morally upright, psychologically integrated, physically healthy and socially acceptable, who will champion the cause of justice, love, truth and peace, and who are ever open to further growth.

The secret of the success of our educational institutions is a community of teachers who are committed to their vocation, professionally competent, morally upright, just and humane in dealings, culturally sensitive and who grow in the true vision of education.

We aspire towards creating a just and humane society where dignity of the human person is respected, where unjust social structures are challenged, where our cultural heritage of ahimsa, religious harmony and national unity are upheld, and where the poor and the marginalized are specially taken care of.

We have to reach out to the families, primarily of the students, to assist them in their needs, to share in their joys and sorrows, and to help them experience love and freedom so that the students realize that our educational institutions are an extension of their homes.

Our institutions are open to all students irrespective of caste and creed; they are accepted and cherished as they are and are helped to grow in their cultural, social and religious traditions. As they are privileged to be in our institutions, they will also have the right to get acquainted with the person of Jesus Christ and his Gospel. Being institutions established and administered by and for a minority community based on religion, they will give preference to Christians in admissions and appointments and have a special concern for the faith formation of the Christian youth.

Our institutions are also open to the society at large by making their resources available for the ongoing education and growth.

For the realization of this CMI goal of education, we invite students, parents and teachers to share this vision and to cooperate with us wholeheartedly.

## RAJAGIRI ANTHEM

Rajagiri – Oh the Hill of the King  
Reign you as the caring king  
Reaching out to souls come seeking  
Righteous way of true living

Be you the dream of searching minds  
A beacon of light, with a vision to guide  
Bold in the mission to excel ever  
Bright in our learning endeavour

Training to transcend the limits of time  
Spreading its wings surpassing the space  
Leading the way to integrity  
From bondage to spirit of freedom

(Critical outlook and creative act  
Reflective poise for a committed cause  
Fed by the fire of conviction  
Achievement of glory in service)

Chorus:

And for us, Rajagirians, Rajagiri is...  
Our way of life, our task 'n tradition  
A luminous star on the learning horizon  
We cherish the way you nourish your own  
And pledge ourselves to do you proud.

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## INSTITUTIONAL INFORMATION

### PROFILE:

Rajagiri School of Engineering & Technology (RSET), established in 2001, is a private self-financing college, which had been affiliated to the Mahatma Gandhi University, Kottayam, Kerala from 2001 to 2014, and is affiliated to the A.P.J. Abdul Kalam Technological University, Trivandrum, Kerala from 2015 onwards. The college is approved by the All India Council for Technical Education, New Delhi. Five UG programmes, i.e. B.Tech. Applied Electronics & Instrumentation, B.Tech. Computer Science & Engineering, B.Tech. Electrical & Electronics Engineering, B.Tech. Electronics & Communication Engineering, and B.Tech. Information Technology, have been granted provisional accreditation by NBA for 3 years w.e.f. July 2014. The institution is accredited with A grade in the second cycle by NAAC.

RSET is an endeavour of the Sacred Heart Province of the Carmelites of Mary Immaculate (CMI) – the first-ever indigenous religious congregation for men in the Syrian Catholic tradition of Christianity in India. The CMI congregation, canonically established in 1855, played a major role in revolutionizing the education scene in Kerala in the late 19<sup>th</sup> century. Heirs to the profound vision of St. Kuriakose Elias Chavara, one of the founding fathers of the congregation, the CMIs' have zealously worked towards providing value-based quality education to society at large, irrespective of religious differences, down the centuries. Today, the congregation has more than 400 educational institutions, from schools to professional colleges under its umbrella.

The Rajagiri Valley campus is a perfect blend of the urban and the rural: while the verdant and serene backdrop of the self-contained campus provides the ideal atmosphere for stimulating the creativity and intellectual pursuits of the academia, the close proximity to the industrial belt of Kerala, the Infopark, and the proposed Smart City helps in providing the students with exposure to the practical aspects of their profession. This ensures a smooth transition from the institution to the industry for our graduates.

**VISION:**

To evolve into a premier technological and research institution, moulding eminent professionals with creative minds, innovative ideas and sound practical skill, and to shape a future where technology works for the enrichment of mankind.

**MISSION:**

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

**OBJECTIVE:**

The institution has the broad objective of being an active agent of change by responding to the needs and challenges of the times. This is achieved basically through the process of education, training and research.

**GOVERNING BODY:**

1. Rev. Dr Jose Kuriyath CMI (Chairperson)  
*Provincial, Sacred Heart Province, & Manager, RSET*
2. Rev. Dr Saju Madavanakadu CMI  
*Educational Secretary, Sacred Heart Province*
3. Rev. Fr Jose Alex Oruthayappilly CMI  
*Director, RSET*
4. Rev. Fr John Therezhathu CMI  
*Administrator, RSET*
5. Regional Officer, AICTE Regional Office, Trivandrum (Ex officio)
6. Director of Technical Education, Government of Kerala (Ex officio)
7. Prof. Dr M. S. Ananth  
*Former Director, IIT Madras, and presently Visiting Professor, IISc, Bangalore*
8. Dr M.C. Dileep Kumar  
*Vice Chancellor, Sree Sankaracharya University of Sanskrit, Kalady*

9. Mr. George Varghese, F.C.A  
*Financial Consultant*
10. Mr. James Paul  
*Retd Chief Engineer, Govt of Kerala, Chief Consultant of  
Constructions*
11. Mr. N. Jehangir  
*Vice Chairman & Managing Director, NeST Group of companies*
12. Dr John M. George  
*Vice Principal, RSET*
13. Rev. Dr Jaison Paul Mulerickal CMI  
*Representative of the CMI priests working in RSET*
14. Dr Joseph I. Injodey  
*Executive Director, Rajagiri College of Social Sciences*
15. Adv. Jose Kannanthanam  
*Senior Counsel, High Court of Kerala*
16. Prof. M. L. Kothari, FNAE  
*Former Professor, IIT Delhi*
17. Dr K. Poullose Jacob  
*Former Pro-Vice Chancellor, CUSAT*
18. Mr. Philip John  
*Industrialist*
19. Dr A. Unnikrishnan (Secretary)  
*Principal, RSET*
20. Mr. Venugopal C. Govind  
*Managing Partner, Varma & Varma Chartered Accountants*
21. Dr Vinod Kumar P.B.  
*Professor, RSET*

#### **MANAGING COMMITTEE:**

1. Rev. Fr Jose Alex Oruthayappilly CMI – *Director (Chairperson)*
2. Rev. Fr John Therezhathu CMI – *Administrator*

3. Dr A. Unnikrishnan – *Principal*
4. Dr John M. George – *Vice Principal* (Secretary)

**COLLEGE COUNCIL:**

1. Rev. Fr Jose Alex Oruthayappilly CMI – *Director (Chairperson)*
2. Dr Antony V. Varghese
3. Rev. Dr Jaison Paul Mulerickal CMI
4. Dr Jobin K. Antony
5. Dr John M. George – *Vice Principal*
6. Prof. J. T. Kuncheria
7. Prof. A.J. Kuttyamma
8. Prof. P. R. Madhava Panicker
9. Dr A. Unnikrishnan – *Principal* (Convener)
10. Rev. Dr Varghese Panthalookaran CMI
11. Dr Vinod Kumar P.B. (Secretary)

**ACADEMIC COUNCIL:**

1. Rev. Fr. Jose Alex Oruthayappilly CMI - Patron
2. Dr A. Unnikrishnan – Principal (Chairperson)
3. Dr John M. George – Vice Principal
4. Dr Vinod Kumar P.B. – Secretary of the College Council
5. Rev. Fr. Joseph Mathew CMI
6. Rev. Fr. Thomas P.J. CMI
7. Rev. Fr. Mejo Paul CMI
8. Rev. Fr. Ajeesh Puthussery CMI
9. Ms Liza Annie Joseph (HoD, DEI)
10. Prof. Dominic Mathew
11. Ms Shanmugha Priya M.

12. Dr Jobin K. Antony (HoD, DEC)
13. Ms Rithu James
14. Ms Harsha A.
15. Mr Nithin Babu
16. Ms Swapna Davies
17. Ms Shimmi Asokan (HoD, DCS)
18. Mr Ajith S.
19. Ms Mary Priya Sebastian
20. Mr Biju Abraham
21. Prof. K.S. Mathew
22. Ms Santhi B. (HoD, DEE)
23. Ms Jayasri R. Nair
24. Dr Unnikrishnan P.C.
25. Prof. Kuttyamma A.J. (HoD, DIT)
26. Mr Binu A.
27. Ms Divya James
28. Dr Thankachan T. Pullan (HoD, DME)
29. Dr Manoj G. Tharian
30. Mr Sidheek P.A.
31. Mr K. Uday Sankar
32. Prof. K.A. Ouseph (HoD, DCE)
33. Dr Aysha Zeneeb Majeed
34. Ms Sindhu U.
35. Dr Antony V. Varghese (HoD, DBSH)
36. Mr Jose Antony
37. Dr Sonia Paul (Secretary)

### **ETHICS COMMITTEE:**

- ❖ Principal (Chairperson)
- ❖ PTA representative(Vice Chairperson)
- ❖ College Council Secretary (Convener)
- ❖ Chairman, Student Council (Joint Convener)
- ❖ Administrator, RSET
- ❖ President/ Ward Member, Thrikkakara Grama Panchayath
- ❖ Faculty Advisor, Student Council
- ❖ NSS Programme Coordinator
- ❖ Student Welfare Officer

### **INTERNAL QUALITY ASSURANCE CELL:**

The Internal Quality Assurance Cell gives advice and guidelines to the administration to maintain high quality work in academics and administration. The cell monitors the quality aspects of all the academic and non-academic activities of the institution. The cell works on various accreditation aspects.

1. Dr. A. Unnikrishnan, Principal - Chairperson
2. Dr. John M. George, Vice Principal - Coordinator
3. Dr. Vinod Kumar P.B. - Member Secretary

### **Members:**

4. Dr Antony V. Varghese
5. Dr Manoj Tharian – NBA Coordinator
6. Dr Jaison Paul Mulerickal CMI
7. Ms M. Shanmugha Priya – Representative, DEI
8. Ms Tressa Kurian – Representative, DCE
9. Ms Anita John – Representative, DCS
10. Ms Harsha A. – Representative, DEC
11. Ms Anna Mathew – Representative, DEE
12. Ms Lakshmi K.S. – Representative, DIT

13. Mr James Mathew – Representative, DME
14. Dr Sonia Paul – Representative, DBSH
15. Ms Saritha S. – M. Tech Programme Coordinator
16. Ms Sangeetha Jamal – Timetable Committee Coordinator
17. Fr Mejo Paul CMI – Hostel Warden
18. Mr Biju Paul – Placement Officer
19. Mr M.T. Kuriakose – Administrative Officer
20. Mr P.M. Joseph – Senior Finance Officer
21. Mr Tony Joseph
22. Mr Mathachan M.J.
23. Mr Shaibu Kurian
24. Mr Thomas T.J.
25. Mr Jomon P. J.
26. Ms Bindu Paul
27. Mr Nishanth P.R. – Employer Representative
28. Mr Vivek E.K. – Alumni Representative
29. Mr Suresh Nair – Industrialist
30. Ms Saji Varghese – Representative, Local Community

#### **IQAC EXECUTIVE COMMITTEE**

1. Dr John M. George, Vice Principal – Coordinator
2. Dr Vinod Kumar P. B. – Member Secretary
3. Dr Manoj Tharian – NBA Coordinator
4. Fr Mejo Paul Gracevilla CMI
5. Ms M. Shanmugha Priya – Representative, DEI
6. Ms Tressa Kurian – Representative, DCE
7. Ms Anita John – Representative, DCS
8. Ms Harsha A. – Representative, DEC
9. Ms Anna Mathew – Representative, DEE
10. Ms Lakshmi K.S. – Representative, DIT

11. Mr James Mathew - Representative, DME
12. Dr Sonia Paul - Representative, DBSH

**INTERNAL AUDIT CELL:**

Internal Audit Cell (IAC) conducts internal academic audit and produces the required documents and records to the external auditor on demand. IAC is also responsible for uploading the monthly report, annual report and any other data required by the external auditor and/or the A.P.J. Abdul Kalam Technological University.

1. Dr John M. George - Convenor
2. Dr Vinod Kumar P. B.
3. Fr Mejo Paul Gracevilla CMI
4. Prof. Kuttyamma A. J.
5. Ms Liza Annie Joseph - Secretary
6. Ms Mary Hexy - Representative, DEI
7. Ms Joseena Joseph - Representative, DCE
8. Ms Amitha Mathew - Representative, DCS
9. Dr Elizabeth Rita Samuel - Representative, DEE
10. Ms Shubhasree A.V. - Representative, DEC
11. Ms Mary John - Representative, DIT
12. Mr Jibin Noble - Representative, DME
13. Dr Sonia Paul - Representative, DBSH
14. Mr Thomas T. J.

**PROGRAMMES OFFERED**

<b>B. Tech. Degree</b>		<b>Sanctioned Intake</b>
Applied Electronics & Instrumentation Engineering*	(AEI)	60
Civil Engineering	(CE)	60



Computer Sciences & Engineering*	(CSE)	180
Electrical & Electronics Engineering*	(EEE)	60
Electronics & Communication Engineering*	(ECE)	180
Information Technology*	(IT)	60
Mechanical Engineering	(ME)	120

\* NBA Accredited

### **M. Tech. Degree**

Communication Engineering	(COME)	24
Computer Science and Information Systems	(CSIS)	24
Industrial Drives and Control	(IDAC)	24
Network Engineering	(NE)	18
Signal Processing	(SP)	18
VLSI and Embedded Systems	(VAES)	24

### **Ph. D. Degree**

Electronics & Communication Engineering	8
Electrical & Electronics Engineering	2
Information Technology	2
Mathematics	10

### **FACILITIES:**

#### **Computing:**

All computers on the RSET campus are networked and internet enabled through a 24/7, 130 Mbps 1:1 leased line (70 Mbps Asianet & 60 Mbps Vodafone). The leased lines are connected through a UTM. Color reprographic facilities are also available.

#### **Library:**

Alethea, the library is a computerized information system, which has

all facilities for information storage and retrieval. It follows the open access library system. It has a total area of 937sq.m. and a seating capacity of 201. The library functions from 8.00 a.m. to 8.30 p.m. on all days, except state public holidays other than Sundays. Apart from this central facility, each department has separate department libraries. Reprographic facility is available in the library premises.

### **Digital Library Facilities**

*E - Alethea:* RSET Digital library includes 1. Links to various sites of academic interest, 2. Public domain materials like Conference Papers, Electronic Theses and dissertations, Technical Reports, FAQ's and electronic books.

*Institutional Repository:* Includes 1. Faculty collections: papers/articles/invited lectures. 2. Previous University Question Papers 3. RSET Internal Examination Question Papers. 4. Proceedings of the conferences organized by RSET 5. Student project reports and seminar reports

*Video Library:* (Streaming video archive) Video lectures procured from NPTEL and C - DEEP IIT Bombay.

### **E-Journal Packages:**

1. IEEE / IET Electronic Library
2. ASCE
3. ASTM

### **Siunya Labs:**

Set up in 2017, Siunya Labs is a Centre of Excellence in Advanced Computing and Communications, which consists of the High Performance Computing Lab with a computing power of 6.1 TFLOPS; FabLab, the digital fabrication workshop; and the Cloud Lab. The centre is also equipped with its own research space and seminar hall.

### **Hostels:**

The campus offers separate hostel facilities for boys and girls with Resident Tutors/Wardens to look into the welfare of the students, and provide necessary help.

<b>Men's Hostels</b>	<b>Chief Warden</b>	<b>Assistant Wardens Phone number</b>
Sanjoe Men's Hostel - I	Vice Principal	Fr Mejo Paul CMI 95625 92022
Sanjoe Men's Hostel II		Fr Joseph Mathew CMI 94965 74790 Fr. Thomas P.J. CMI 80863 39436 Fr. Ajeesh Puthussery CMI 8281775407

<b>Ladies' Hostels</b>	<b>Warden</b>	<b>Phone Number</b>
Assumption Hostel	Sr Kochuthresia K. SABS	0484-2421968
Daya Bhavan (1 <sup>st</sup> year students)	Sr Anne Palliyil SABS	0484-2425295

### **Cafeteria:**

RSET has a spacious multi cuisine cafeteria. In addition, coffee & tea counters are provided on different floors of the buildings.

### **Transport:**

The college bus routes are as follows:

- 1) Thoppumpady - Kundanoor - Vyttila - Padivattom - Kakkanad - Campus
- 2) Ravipuram - Jos Junction - TDM Hall - High Court - Kacheripady - Palarivattom - Campus
- 3) Kacheripady - Lisie Junction - Kaloor Bus Stand - Stadium - Campus
- 4) Kaloor Bus Stand - Mamangalam - Edappally Toll - Thrikkakara Temple - BMC - Campus
- 5) Palarivattom - Alinchuvadu - Padivattom - Vazhakala - Padamugal - Kakkanad - Campus

- 6) High Court - Palarivattom - Kakkanad
- 7) Palarivattom Ladies Hostel - Kunnumpuram - NGO Quarters - Mavelipuram - Campus
- 8) Aluva - Bank Junction - Pump Junction - KSRTC - Govt Hospital - Pulinchodu - Campus
- 9) Pulinchodu, Aluva - KSRTC Garage - Ambattukkavu - Companypady - Kalamassery - Campus
- 10) Angamaly KSRTC - TELK - Athani - Parur Kavala - Campus (Starting time: 7.10 a.m.)
- 11) HMT Junction - Toshibha - Vallathol Junction - Campus
- 12) BMC Hostel - Civil Station, Kakkanad - Campus
- 13) Kalamassery - Kalamassery Panchayath - Changampuzha Nagar - Pathadipalam - Koonamthai - Edappally Toll - Station Kavala - Mamangalam - Campus
- 14) Koonammavu - Container Road - Premier - BMC - Campus
- 15) Toll Junction - TVS Junction - Thrikkakara Temple - BMC - Campus
- 16) Panampilly Nagar - Passport Office - Kadavanthra - Vyttila - Alinchuvadu - Campus
- 17) Manorama - Kathrikadavu - Kaloor Stadium - Campus
- 18) Vyttila - OEN - Power House - Thykoodam - Chambakkara - Pettah - S.N. Junction - Milma - Puthiyaroad - Campus
- 19) Tripunithura - S.N. Junction - Kizhakkakota - Karingachira - Irumpanam - Campus
- 20) Poothotta - Tripunithura - Karingachira - Campus (Starting time: 7.10 a.m.)
- 21) Perumbavoor - Kizhakkambalam - Pallikkara - Campus (Starting time: 7.10 a.m.)

The buses start at 7.20 a.m. from the specified starting points (unless otherwise specified); on the return trips, the buses leave the campus at 4. 45 p.m. (*For further details, refer Bus Facility Rules*).

### Sports & Fitness:

Physical Education, Sports and Fitness is an integral part of the Rajagirian's total educational programme. **The Physical Education Department at RSET is committed to providing students with a worthwhile and enjoyable learning environment while providing the necessary knowledge and tools to adhere to a lifetime of activity and better health.**

RSET has been maintaining a high standard in almost all games. We offer systematic training and coaching for various games in the evening throughout the year. Leading institution teams are invited to RSET for playing practice matches. In order to give a competitive experience and exposure, RSET teams participate in all the Kerala Technological University and M.G University inter-collegiate tournaments and inter-engineering tournaments in Kerala.

### Facilities for Sports & Games

Sl. No.	Name of the Area	Qty. & Plinth Area in Sq. Mtrs.
1	Basketball courts with permanent floodlight facility	2 No's (2050 Sq m)
2	Football Field	1 No (5850 Sq m)
3	Cricket Ground	1 No (9000 Sq m)
4	Volleyball Courts with Floodlight Facility	2 No's (400 Sq m)
5	Throw ball Court	2 No's ( 850 Sq m)
6	Tennis Court (clay courts)	1 No's (200 Sq m)
7	a) Fitness Centre Gents	1 No's (500 Sq m)
	b) Fitness Centre Ladies	1 No's ( 500 Sq m)
8	Play Ground Consist of 200 Mtrs Athletic Track, Long Jump Pit, Shot-put, Discuss Throw Pits and Javelin Throw Sector.	1 No's (5850 Sq m)

Sl. No.	Name of the Area	Qty. & Plinth Area in Sq. Mtrs.
9	a) Department Room	1 No's (400 Sq m)
	b) Sports Store	1 No's( 100 Sq m)
10	a) Indoor Badminton Courts	2 No's (1000 Sq m)
	b) Table Tennis Area	2 No's (175 Sq m)

The faculty of Physical Education organizes inter house competitions to provide competitive experience, interactions with fellow collegians, teachers, juniors and seniors, to develop friendship, commandership and championship. Every year pioneer tournaments such as the Chavara Cup Inter-engineering Basketball Tournament, Rajagiri Champions Trophy Inter- collegiate Football Tournament and Rajagiri Corporate Cup Cricket Tournament are organized.

#### **Medical Centre:**

A medical centre functions in the main academic block, with a full time nurse (8.45 a.m. to 4 p.m.), and a doctor, whose services are available from 3 p.m. to 4.45 p.m. on Mondays, Wednesdays, & Fridays, and from 10 a.m. to 12 noon on Saturdays.

#### **Bank:**

The South Indian Bank has a branch adjacent to the campus, with a 24-hour ATM facility.

#### **Post Office:**

The college post office, officially the Rajagiri Valley Post Office (pin code 682 039) has Speed Post and Electronic Fund Transfer facility.

#### **Honesty Shop:**

The Honesty Shop functioning on the first floor, next to the Coffee Counter, has essential stationery items, which the students may purchase by depositing the listed price in the money box.

### **Guest Rooms for Visiting Faculty:**

There are guest rooms of international standards for faculty coming for short lectures/seminars/conferences etc.

### **CLASS TIMINGS:**

*The class timings are as follows:*

08.25 a.m.	First Bell
08.30 a.m.	College Anthem
08.30 - 09.35	First Hour
09.35 - 10.30	Second Hour
10.30 - 10.45	Break
10.45 - 11.40	Third Hour
11.40 - 12.35	Fourth Hour for seniors/Lunch break for juniors
12.35 - 01.35	Fourth Hour for juniors/Lunch break for seniors
01.35 - 02.30	Fifth Hour
02.30 - 02.40	Break
02.40 - 03.35	Sixth Hour
03.35 - 04.30	Seventh Hour

*On Fridays,*

*There are four hours in the forenoon.*

*Afternoon timings are as follows:*

12.35 - 02.00	Lunch Break
02.00 - 02.50	Fifth Hour
02.50 - 03.40	Sixth Hour
03.40 - 04.30	Seventh Hour

## ACADEMIC INFORMATION

### THE CLASS TEACHER - ASSOCIATE CLASS TEACHER SYSTEM

Each class is assigned a Class Teacher & Associate Class Teacher.

#### RESPONSIBILITIES OF THE CLASS TEACHER/ASSOCIATE CLASS TEACHER

- Academic, attendance and disciplinary matters.
- Maintaining student record including documentation and regular updating of the same (which includes student information folder, leave, sessional marks, achievement, progress indicators).
- Consolidation of the weekly attendance and submit the same to Principal's office.
- Submit the weekly attendance record and list of students who have applied/not applied for leave (both) during the week to the Head of the Department in order to initiate necessary action.
- Compilation of monthly attendance and preparation of regular absentees list for publishing on the notice board (on the 15<sup>th</sup> and 30<sup>th</sup> working day of every month).
- Sanction the leave application of the students. In case of leave requirement over three consecutive days, refer the application to the HOD.
- Report the activities and progress of the class to the HOD.
- Intimate the parents about results of exams, PTA meetings etc through the office.
- Work with faculty-in-charge for the associations/clubs for effective implementation of association/club activities.
- Act as the interface of the department with the class.
- To convene class committee meetings.
- Any other matter entrusted by the HOD / Principal.

## LIST OF CLASS TEACHERS & ASSOCIATE CLASS TEACHERS

### B.Tech. Programmes

Class	Class Teacher	Associate Class Teacher
S1 AEI	Ms. Aparna George	Mr. Rinku Jacob
S1 CE	Mr. Jayakumar J.	Ms. Maria Sebastian
S1 CS $\alpha$	Ms. Dhanya P.M.	Mr. Ajay Mathew Jose
S1 CS $\beta$	Dr. M. Viju Prakash	Ms. Reya Kuruvila
S1 CS $\gamma$	Ms. Tripti C	Dr Deepa K. Baby
S1 ECE $\alpha$	Ms. Harsha A.	Sr. Alphonsa Thomas
S1 ECE $\beta$	Mr. Sreekumar G.	Ms. Anju C.
S1 ECE $\gamma$	Mr. Naveen N.	Ms. Lakshmi C.
S1 EEE	Ms. Renu George	Ms. Bindu V.A.
S1 IT	Ms. Nikhila T. Bhuvan	Mr. Vinay Menon
S1 ME $\alpha$	Mr. K. Uday Sankar	Mr. Jose Antony
S1 ME $\beta$	Mr. Mathew Baby	Mr. Sujith S.
S3 AEI	Ms. Parvathi Harikumar	Mr. Hari C.V.
S3 CE	Ms. Elsa Paul	Mr. Arun T. Moonjely
S3 CS $\alpha$	Ms. Anita John	Ms. Jisha Mary Jose
S3 CS $\beta$	Ms. Amitha Mathew	Ms. Anjusree V K
S3 CS $\gamma$	Ms. Dincy Paul	Mr. Hareesh M J
S3 ECE $\alpha$	Dr S. Anand	Ms. Sabna N.
S3 ECE $\beta$	Ms. Swapna Davies	Mr. Kiran K.A.
S3 ECE $\gamma$	Mr. Ajay V. Babu	Ms. Indu S.

Class	Class Teacher	Associate Class Teacher
S3 EEE	Ms. Ragam Rajagopal	Ms. Caroline Ann Sam
S3 IT	Ms. Jisha G.	Ms. Bency Wilson
S3 ME $\alpha$	Mr. Tony Chacko	Mr. Harikrishnan C.
S3 ME $\beta$	Mr. Manu Joseph	Mr. Rathish T.R,
S5 AEI	Ms. Mary Hexy	Fr. Joseph Mathew
S5 CE	Ms. Tressa Kurian	Ms. Aysha Zeneeb
S5 CS $\alpha$	Ms. Jomina John	Mr. Uday Babu P
S5 CS $\beta$	Ms. Sangeetha Jamal	Mr. Joseph John
S5 CS $\gamma$	Mr. Paul Augustine	Ms. Meera M
S5 ECE $\alpha$	Ms. Maleeha Abdul Azeez	Mr. Abhishek Viswakumar
S5 ECE $\beta$	Ms. Neethu Radha Gopan	Mr. Jos Prakash A.V.
S5 ECE $\gamma$	Ms. Preethi Bhaskaran	Mr. Nithin Babu
S5 EEE	Ms. Sreepriya R.	Ms. Jayasri R. Nair
S5 IT	Ms. Mary John	Mr. Mathews Abraham
S5 ME $\alpha$	Mr. Jeffin Johnson	Mr. Vishnu Sankar
S5 ME $\beta$	Mr. John Paul C.D.	Mr. Abinson Paul

## LIST OF CLASS TEACHERS

### M. Tech. Programmes

*Coordinator: Ms. Saritha S.*

Class	Class Teacher
CS & IS - I yr	Ms. Sminu Izudheen
COME - I yr	Mr. Jaison Jacob
IDAC - I yr	Ms. Anna Mathew
NE - I yr	Ms. Abey Abraham
SP - I yr	Prof. Dominic Mathew
VAES - I yr	Mr Karunakara P. Menon
CS & IS - II yr	Ms. Jyotsna A.
COME - II yr	Dr Deepti Das Krishna
IDAC - II yr	Mr. Ginnes K. John
NE - II yr	Ms. Preetha K.G.
SP - II yr	Mr. Krishnakumar K.P.
VAES - II yr	Mr. Rony Antony P.

## ACADEMIC CALENDAR

### Note:

The Principal reserves the right to change the date/time of any academic/co/extra curricular event/holidays as and when required.

**Academic Calendar for S1, S3, S5 - August 2017 to May 2018**

AUGUST 2017			
Date	Day		
1	Tue	1	Deeksharambham
2	Wed	2	Orientation Programme begins Classes begin for S3 & S5
3	Thur	3	
4	Fri	4	Orientation Programme ends
5	Sat	5	
6	Sun	H	
7	Mon	6	Classes begin for S1
8	Tue	7	
9	Wed	8	
10	Thur	9	
11	Fri	10	
12	Sat	H	
13	Sun	H	
14	Mon	11	
15	Tue	H	Independence Day
16	Wed	12	
17	Thur	13	
18	Fri	14	Arts Fest - Bharatham
19	Sat	15	Arts Fest - Bharatham
20	Sun	H	
21	Mon	16	
22	Tue	17	
23	Wed	18	
24	Thur	19	
25	Fri	20	
26	Sat	21	
27	Sun	H	
28	Mon	H	Ayyankali Jayanthi
29	Tue	22	
30	Wed	23	
31	Thur	24	College closes for Onam



## SEPTEMBER 2017

Date	Day		
1	Fri	H	<i>Id-ul-azha</i>
2	Sat	H	
3	Sun	H	<i>First Onam</i>
4	Mon	H	<i>Thiruvonam</i>
5	Tue	H	<i>Third Onam</i>
6	Wed	H	<i>Sree Narayana Guru Jayanti</i>
7	Thur	H	
8	Fri	H	
9	Sat	H	
10	Sun	H	
11	Mon	1	College reopens after Onam
12	Tue	H	<i>Sreekrishna Jayanthi</i>
13	Wed	2	
14	Thur	3	
15	Fri	4	
16	Sat	5	
17	Sun	H	
18	Mon	6	Test I begins
19	Tue	7	
20	Wed	8	
21	Thur	H	<i>Sree Narayanan Guru Samadhi</i>
22	Fri	9	Test I ends
23	Sat	10	
24	Sun	H	
25	Mon	11	
26	Tue	12	
27	Wed	13	Test I marks to be published
28	Thur	14	
29	Fri	H	<i>Mahanavami</i>
30	Sat	H	<i>Vijayadasami</i>

No. of working days - 14

OCTOBER 2017			
Date	Day		
1	Sun	H	
2	Mon	H	<i>Gandhi Jayanthi</i>
3	Tue	1	
4	Wed	2	
5	Thur	3	
6	Fri	4	
7	Sat	5	Annual Athletic Meet
8	Sun	H	
9	Mon	6	
10	Tue	7	
11	Wed	8	
12	Thur	9	
13	Fri	10	
14	Sat	H	
15	Sun	H	
16	Mon	11	Test II begins
17	Tue	12	
18	Wed	H	<i>Deepavali</i>
19	Thur	13	Test II ends
20	Fri	14	
21	Sat	15	
22	Sun	H	
23	Mon	16	
24	Tue	17	
25	Wed	18	
26	Thur	19	
27	Fri	20	
28	Sat	21	
29	Sun	H	
30	Mon	22	Test II marks to be published
31	Tue	23	

No. of working days - 23



## NOVEMBER 2017

Date	Day		
1	Wed	1	
2	Thur	2	
3	Fri	3	
4	Sat	4	
5	Sun	H	
6	Mon	5	
7	Tue	6	
8	Wed	7	
9	Thur	8	
10	Fri	9	
11	Sat	H	
12	Sun	H	
13	Mon	10	
14	Tue	11	
15	Wed	12	
16	Thur	13	
17	Fri	14	
18	Sat	15	
19	Sun	H	
20	Mon	16	
21	Tue	17	
22	Wed	18	
23	Thur	19	
24	Fri	20	Classes end for S1, S3 & S5. Attendance & Internal Marks to be published
25	Sat	21	
26	Sun	H	
27	Mon	22	
28	Tue	23	
29	Wed	24	
30	Thur	25	

No. of working days - 25

DECEMBER 2017			
Date	Day		
1	Fri	1	
2	Sat	H	<i>Nabidinam</i>
3	Sun	H	
4	Mon	2	University Exam begins
5	Tue	3	
6	Wed	4	
7	Thur	5	
8	Fri	6	
9	Sat	H	
10	Sun	H	
11	Mon	7	
12	Tue	8	
13	Wed	9	
14	Thur	10	
15	Fri	11	
16	Sat	12	
17	Sun	H	
18	Mon	13	
19	Tue	14	University Exam ends
20	Wed	15	
21	Thur	16	
22	Fri	17	
23	Sat	H	
24	Sun	H	
25	Mon	H	<i>Christmas</i>
26	Tue	H	
27	Wed	H	
28	Thur	H	
29	Fri	H	
30	Sat	H	
31	Sun	H	

No. of working days - 17



## JANUARY 2018

Date	Day		
1	Mon	1	S2, S4 & S6 classes begin
2	Tue	H	<i>Mannam Jayanthi</i>
3	Wed	2	
4	Thur	3	
5	Fri	4	
6	Sat	5	
7	Sun	H	
8	Mon	6	
9	Tue	7	
10	Wed	8	
11	Thur	9	
12	Fri	10	
13	Sat	H	
14	Sun	H	
15	Mon	11	
16	Tue	12	
17	Wed	13	
18	Thur	14	
19	Fri	15	
20	Sat	16	
21	Sun	17	
22	Mon	18	
23	Tue	19	
24	Wed	20	
25	Thur	21	
26	Fri	H	<i>Republic Day</i>
27	Sat	22	
28	Sun	H	
29	Mon	23	
30	Tue	24	
31	Wed	25	

No. of working days - 24

Holidays in 2018 will be intimated later

FEBRUARY 2018			
Date	Day		
1	Thur	1	
2	Fri	2	
3	Sat	3	
4	Sun	H	
5	Mon	4	
6	Tue	5	
7	Wed	6	
8	Thur	7	
9	Fri	8	
10	Sat	H	
11	Sun	H	
12	Mon	9	
13	Tue	H	<i>Shivarathri</i>
14	Wed	10	<i>Ash Wednesday</i>
15	Thur	11	
16	Fri	12	
17	Sat	13	
18	Sun	H	
19	Mon	14	
20	Tue	15	
21	Wed	16	
22	Thur	17	
23	Fri	18	
24	Sat	19	
25	Sun	H	
26	Mon	20	
27	Tue	21	
28	Wed	22	

No. of working days - 22



## MARCH 2018

Date	Day		
1	Thur	1	
2	Fri	2	
3	Sat	3	
4	Sun	H	
5	Mon	4	
6	Tue	5	
7	Wed	6	
8	Thur	7	
9	Fri	8	
10	Sat	H	
11	Sun	H	
12	Mon	9	
13	Tue	10	
14	Wed	11	
15	Thur	12	
16	Fri	13	
17	Sat	14	
18	Sun	H	
19	Mon	15	
20	Tue	16	
21	Wed	17	
22	Thur	18	
23	Fri	19	
24	Sat	20	
25	Sun	H	<i>Palm Sunday</i>
26	Mon	21	
27	Tue	22	
28	Wed	23	
29	Thur	H	<i>Maundy Thursday</i>
30	Fri	H	<i>Good Friday</i>
31	Sat	H	<i>Holy Saturday</i>

No. of working days – 23

APRIL 2018			
Date	Day		
1	Sun	H	<i>Easter</i>
2	Mon	1	
3	Tue	2	
4	Wed	3	
5	Thur	4	
6	Fri	5	
7	Sat	6	
8	Sun	H	
9	Mon	7	
10	Tue	8	
11	Wed	9	
12	Thur	10	Classes end
13	Fri	11	
14	Sat	H	<i>Dr Ambedkar Jayanthi</i>
15	Sun	H	<i>Vishu</i>
16	Mon	12	
17	Tue	13	
18	Wed	14	
19	Thur	15	
20	Fri	16	
21	Sat	17	
22	Sun	H	
23	Mon	18	University Exams begin
24	Tue	19	
25	Wed	20	
26	Thur	21	
27	Fri	22	
28	Sat	23	
29	Sun	H	
30	Mon	24	

No. of working days - 24



## MAY 2018

Date	Day		
1	Tue	H	<i>May Day</i>
2	Wed	1	
3	Thur	2	
4	Fri	3	
5	Sat	4	
6	Sun	H	
7	Mon	5	
8	Tue	6	
9	Wed	7	
10	Thur	8	
11	Fri	9	
12	Sat	H	
13	Sun	H	
14	Mon	10	
15	Tue	11	
16	Wed	12	
17	Thur	13	
18	Fri	14	
19	Sat	15	
20	Sun	H	
21	Mon	16	
22	Tue	17	
23	Wed	18	
24	Thur	19	
25	Fri	20	
26	Sat	21	
27	Sun	H	
28	Mon	22	
29	Tue	23	
30	Wed	24	
31	Thur	25	

No. of working days - 25

# APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

## Academic Calendar July 2017 - July 2018

(B.Tech, B.Arch, M.Tech, M.Arch, M.Planning, MCA and Evening B.Tech & M.Tech). Please see separate Academic Calendar for MBA

JULY 2017		
Day	Date	
Sat	1	
Sun	2	
Mon	3	
Tue	4	
Wed	5	
Thu	6	
Fri	7	
Sat	8	
Sun	9	
Mon	10	
Tue	11	
Wed	12	
Thu	13	
Fri	14	
Sat	15	
Sun	16	
Mon	17	Commencement of Orientation programme for new entrant
Tue	18	
Wed	19	
Thu	20	
Fri	21	
Sat	22	
Sun	23	KarkadakaVaavu
Mon	24	AICTE Orientation Programme
Tue	25	AICTE Orientation Programme
Wed	26	KTU Orientation Programme
Thu	27	Sankethapravesam2017
Fri	28	KTU Orientation Programme
Sat	29	
Sun	30	
Mon	31	



## AUGUST 2017

Day	Date	
Tue	1	Commencement of S1, S3 & S5 Classes, Registration Starts
Wed	2	
Thu	3	
Fri	4	
Sat	5	
Sun	6	
Mon	7	Course Committee/Class Committee Meeting
Tue	8	
Wed	9	
Thu	10	
Fri	11	
Sat	12	
Sun	13	
Mon	14	
Tue	15	Independence Day
Wed	16	Registration Ends
Thu	17	
Fri	18	
Sat	19	
Sun	20	
Mon	21	
Tue	22	
Wed	23	
Thu	24	
Fri	25	
Sat	26	
Sun	27	
Mon	28	Birthday of Ayyankali
Tue	29	
Wed	30	
Thu	31	

SEPTEMBER 2017		
Day	Date	
Fri	1	Onam Vacation Begins Bakrid
Sat	2	
Sun	3	1 <sup>st</sup> Onam
Mon	4	Thiruvonam
Tue	5	3 <sup>rd</sup> Onam
Wed	6	SreeNarayana Guru Jayanthi
Thu	7	
Fri	8	
Sat	9	
Sun	10	
Mon	11	Re-opening
Tue	12	Sreekrishna Jayanthi
Wed	13	Publish Attendance
Thu	14	
Fri	15	
Sat	16	Test 1 to be Completed
Sun	17	
Mon	18	
Tue	19	
Wed	20	
Thu	21	Sree Narayana Guru
Fri	22	Publish Test 1 Marks
Sat	23	
Sun	24	
Mon	25	
MTu	26	
Wed	27	
Thu	28	
Fri	29	Mahanavami
Sat	30	Vijayadasami, Muharram



## OCTOBER 2017

Day	Date	
Sun	1	
Mon	2	Gandhi Jayanthi
Tue	3	
Wed	4	
Thu	5	
Fri	6	Publish Attendance
Sat	7	
Sun	8	
Mon	9	
Tue	10	
Wed	11	
Thu	12	
Fri	13	
Sat	14	
Sun	15	
Mon	16	
Tue	17	
Wed	18	Deepavali
Thu	19	
Fri	20	Test 2 to be Completed
Sat	21	College level Sports meet To be completed
Sun	22	
Mon	23	
Tue	24	
Wed	25	
Thu	26	
Fri	27	
Sat	28	
Sun	29	
Mon	30	Publish Test 2 Marks
Tue	31	

**NOVEMBER 2017**

Day	Date	
Wed	1	
Thu	2	
Fri	3	
Sat	4	
Sun	5	
Mon	6	
Tue	7	
Wed	8	
Thu	9	
Fri	10	
Sat	11	
Sun	12	
Mon	13	
Tue	14	
Wed	15	
Thu	16	
Fri	17	
Sat	18	Zonal level Sports meet To be completed
Sun	19	
Mon	20	
Tue	21	Course Committee/Class Committee Meeting
Wed	22	
Thu	23	Last date for evaluation of Jury/Practicals
Fri	24	Classes End, Publish Internal Marks, Publish Attendance
Sat	25	
Sun	26	
Mon	27	Forward Attendance & Internal Marks to KTU
Tue	28	
Wed	29	
Thu	30	



## DECEMBER 2017

Day	Date	
Fri	1	
Sat	2	Milad-i-Sherif
Sun	3	
Mon	4	Commencement of S1/S3/S5 Exams Exam S1/S5 Slot A
Tue	5	Exam S3 Slot F
Wed	6	Exam S1/S5 Slot B
Thu	7	Exam S3 Slot A
Fri	8	Exam S1/S5 Slot C
Sat	9	
Sun	10	
Mon	11	Exam S3 Slot B
Tue	12	Exam S1/S5 Slot D
Wed	13	Exam S3 Slot C
Thu	14	Exam S1/S5 Slot E
Fri	15	Exam S3 Slot D
Sat	16	
Sun	17	
Mon	18	Exam S1/S5 Slot F
Tue	19	Exam S3 Slot E
Wed	20	
Thu	21	University Sports Meet
Fri	22	
Sat	23	Christmas Vacation Begins
Sun	24	
Mon	25	Christmas
Tue	26	
Wed	27	
Thu	28	
Fri	29	
Sat	30	
Sun	31	

JANUARY 2018		
Day	Date	
Mon	1	Registration Starts Commencement of Even Semester Classes
Tue	2	Mannam Jayanthi
Wed	3	
Thu	4	
Fri	5	
Sat	6	
Sun	7	
Mon	8	Course Committee/Class Committee Meeting
Tue	9	
Wed	10	
Thu	11	
Fri	12	Registration Ends
Sat	13	
Sun	14	
Mon	15	
Tue	16	
Wed	17	
Thu	18	
Fri	19	
Sat	20	
Sun	21	
Mon	22	
Tue	23	
Wed	24	
Thu	25	
Fri	26	Republic Day
Sat	27	
Sun	28	
Mon	29	
Tue	30	
Wed	31	



## FEBRUARY 2018

Day	Date	
Thu	1	
Fri	2	Publish Attendance
Sat	3	
Sun	4	
Mon	5	
Tue	6	
Wed	7	
Thu	8	
Fri	9	B.Tech S1/S3/S5 result declaration
Sat	10	Test 1 to be Completed
Sun	11	
Mon	12	
Tue	13	Maha Shivratri
Wed	14	Publish Test 1 Marks
Thu	15	
Fri	16	Tech Fest
Sat	17	
Sun	18	
Mon	19	
Tue	20	
Wed	21	
Thu	22	
Fri	23	
Sat	24	
Sun	25	
Mon	26	
Tue	27	
Wed	28	

MARCH 2018		
Day	Date	
Thu	1	
Fri	2	Publish Attendance
Sat	3	
Sun	4	
Mon	5	
Tue	6	
Wed	7	
Thu	8	Last date for forwarding the list of the external examiner to the University by the cluster conveners (M.Tech/M.Arch/M.Planning)
Fri	9	
Sat	10	Test 2 to be Completed
Sun	11	
Mon	12	
Tue	13	
Wed	14	
Thu	15	
Fri	16	Publish Test 2 Marks
Sat	17	
Sun	18	
Mon	19	
Tue	20	
Wed	21	
Thu	22	
Fri	23	
Sat	24	
Sun	25	
Mon	26	
Tue	27	
Wed	28	
Thu	29	Maundy Thursday
Fri	30	Good Friday
Sat	31	



## APRIL 2018

Day	Date	
Sun	1	Easter
Mon	2	
Tue	3	
Wed	4	
Thu	5	
Fri	6	Course Committee/Class Committee Meeting
Sat	7	College level Arts fest To be completed
Sun	8	
Mon	9	Publish Internal Marks, Summer Course Registration
Tue	10	
Wed	11	Last date for evaluation of Jury/Practical's
Thu	12	Classes End, Publish Attendance
Fri	13	Forward Attendance & Internal Marks to KTU
Sat	14	Vishu
Sun	15	
Mon	16	
Tue	17	
Wed	18	
Thu	19	
Fri	20	
Sat	21	
Sun	22	
Mon	23	Commencement of S2/S4/S6 Exams Exam S2 / S6 Slot A
Tue	24	Exam S4 Slot F
Wed	25	Exam S2 / S6 Slot B
Thu	26	Exam S4 slot A Last date for M.Tech/M.Arch M.Planning Project evaluation in the department committee
Fri	27	Exam S2/ S6 Slot C
Sat	28	
Sun	29	
Mon	30	Exam S4 Slot B

## MAY 2018

Day	Date	
Tue	1	May Day
Wed	2	Exam S2 / S6 Slot D
Thu	3	Exam S4 Slot C
Fri	4	Exam S2 Slot E1/S6 Slot E
Sat	5	
Sun	6	
Mon	7	Exam S4 Slot D
Tue	8	Exam S2 Slot E2/S6 Slot F
Wed	9	Exam S4 Slot E
Thu	10	Exam S2 Slot E3 - Commencement of Summer Courses
Fri	11	Exam S2 Slot F1 - Last date for submission of project report in the college (M.Tech/M.Arch/M.Planning)
Sat	12	
Sun	13	
Mon	14	Exam S2 Slot F2
Tue	15	
Wed	16	University Arts Fest
Thu	17	
Fri	18	
Sat	19	
Sun	20	
Mon	21	Exam S5 Slot A (Suppl'y)
Tue	22	Exam S5 Slot B (Suppl'y)
Wed	23	Exam S5 Slot C (Suppl'y)
Thu	24	Exam S5 Slot D (Suppl'y)
Fri	25	Exam S5 Slot E (Suppl'y)
Sat	26	
Sun	27	
Mon	28	Exam S5 Slot F (Suppl'y)
Tue	29	Last date for M.Tech/M.Arch/M.Planning Project report to the university by the principal
Wed	30	Summer Courses Ends
Thu	31	Report Eligibility of Students after Summer Course



## JUNE 2018

Day	Date	
Fri	1	Commencement of Supplementary Exams Exam S1 Slot A
Sat	2	
Sun	3	
Mon	4	Exam S3 Slot A
Tue	5	Exam S1 Slot D
Wed	6	M.Tech/M.Arch/M.Planning Viva begins Exam S3 Slot B
Thu	7	Exam S1 Slot E
Fri	8	Exam S3 Slot C B.Tech S4 result declaration
Sat	9	
Sun	10	
Mon	11	Exam S3 Slot D
Tue	12	Exam S3 Slot E
Wed	13	
Thu	14	B.Tech S6 result declaration
Fri	15	Id-ul-Fitr
Sat	16	
Sun	17	
Mon	18	
Tue	19	
Wed	20	M.Tech/M.Arch/M.Planning Viva ends
Thu	21	Exam S3/S4 Slot F1
Fri	22	B.Tech S2 Result Declaration Exam S3/S4 Slot F2
Sat	23	
Sun	24	
Mon	25	Exam S4 Slot A
Tue	26	Exam S4 Slot B
Wed	27	Exam S4 Slot C
Thu	28	Exam S4 Slot D
Fri	29	Publication of M.Tech/M.Arch/M.Planning Results Exam S4 Slot E
Sat	30	

## JULY 2018

Day	Date	
Sun	1	
Mon	2	Exam S6 Slot A
Tue	3	Exam S6 Slot B
Wed	4	Exam S6 Slot C
Thu	5	Exam S6 Slot D
Fri	6	Exam S6 Slot E
Sat	7	
Sun	8	
Mon	9	Exam S6 Slot F
Tue	10	
Wed	11	Exam S2 Slot A
Thu	12	Exam S1/S2 Slot B1
Fri	13	Exam S1/S2 Slot B2
Sat	14	
Sun	15	
Mon	16	Exam S1/S2 Slot C1
Tue	17	Exam S1/S2 Slot C2
Wed	18	Exam S2 Slot D
Thu	19	Exam S1/S2 Slot E1
Fri	20	Exam S1/S2 Slot E2
Sat	21	
Sun	22	
Mon	23	Exam S2 Slot E3
Tue	24	Exam S1/S2 Slot F1
Wed	25	Exam S1/S2 Slot F2
Thu	26	
Fri	27	
Sat	28	
Sun	29	
Mon	30	
Tue	31	



RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY					
KTU - SEMESTER PLAN (S1, S3, S5)					
(AUGUST 2017 - JANUARY 2018)					
August	September	October	November	December	January
1 2 7 Module 1 (10 days) Semester Class Begins Orientation Prog. (2-4) Deesharambham	10 13 15 20 22 23 Test 1 Module 2 (10 days) Test 1 Mark Publish Sports	9 16 19 27 30 Module 3 (10 days) Module 4 (10 days) Test 2 (16,17,19)	10 23 24 Module 5 (10 days) Module 6 (10 days) Classes End Publish Internal/ & Attendance Last Date- Lab Evaluation	4 19 23 31 1 End Sem. Exam (4-19) Christ. Holidays	Even Semester Begin

No. of working days:	
August:	21
September:	13
October:	20
November:	18
<b>Total No. of working days: 72</b>	

## TESTS & EXAMINATIONS

### FOR B.TECH. PROGRAMME

1. Students must take all the examinations and tests conducted by the college. Absence from a test will result in the forfeiture of their internal marks.
2. Students are required to possess 80% attendance to be permitted to take the internal examinations.
3. The maximum marks for internal evaluation and end semester examination is fixed as 50 and 100 respectively. The internal evaluation breakup is as given below:

	<b>Marks</b>
Two Internal Tests (1 hour duration)	40 (20 marks each)
Assignments	10
Maximum marks	50

Students who have missed either the first or the second test can register with the consent of the faculty and the Head of the Department (HOD) concerned for a retest which shall be conducted soon after the completion of the second test, but before the end semester examination. The re-test will cover both first and second test course plans. Those who have missed both the tests are not eligible to appear for the end semester examination. However if one misses both tests due to medical reasons or other personal exigencies, based on genuine evidence, a single test of 2 hour duration for 40 marks will be conducted covering the whole syllabus, before the end semester examinations. Decision on this will be taken by the Principal and verified by the external academic auditor.

In case of grievances regarding the sessional mark allocation,

students may follow the procedure listed under Student's Grievance.

1. Late/non submission of assignments (which are part of the internal assessment) will result in reduction of internals.
2. The progress report of the students will be sent to the parent/guardian after each test, and Open House will be conducted to facilitate parent-teacher interaction.
3. The decision of the Academic Council on all matters related to tests/examinations will be final.
4. For Laboratory /Practical /Workshop courses
  - i) Practical records /Outputs 60 marks (Internally by the College)
  - ii) Regular class Viva 10 marks (Internally by the College)
  - iii) Final written test/quiz 30 marks (Internally by the College)

All the above assessments are mandatory to earn credits. If not, the student has to complete the course/assessments during his/her free time in consultation with the faculty members. On completion of these, grades will be assigned. In case the Practical Laboratory/Workshop courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

### **End Semester Examination**

1. At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted before the commencement of the next semester, for students who are eligible and have registered for them.
2. Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary examination

or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.

3. The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 75% in each course. Further, the internal evaluation marks in the course should be 45% or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.
4. Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the Principal provided they have 45% or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.
5. A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.
6. Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %. (For example if the end semester mark % is 45, then the maximum internal mark % is to be  $45+25 = 70$  %.) In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.
7. Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

## Credit System

The University follows Credit System and Credits are apportioned among the following knowledge segments.

<b>Knowledge Segments</b>	<b>Credits</b>
Basic Sciences	10 [8 Theory+ 2 Labs]
Mathematics	16
Humanities	9
Basic Engineering	29 [25 Theory + 4 Labs]
Professional Engineering	89 [80 Theory + 9 Labs]
Electives	15
Seminar	2
Comprehensive Viva	2
Design Project	2
Project	6
<b>Total Academic Credits : 180</b>	
Student Activities*	2 [Audit – Pass/Fail]
<b>Total credits for B.Tech. Degree : 182</b>	

## Student Activities Points\*

In addition to academics, students are to actively engage in co-curricular and extracurricular activities. For such activities, points are allotted. On getting a minimum of 100 activity points the student passes the course and earns 2 credits which do not count for the CGPA but are mandatory for the award of the degree.

## Minimum Cumulative Credits Requirement

The minimum cumulative credits requirement to register for higher semester courses is as given below

Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters
First	24	24	Not applicable
Second	23	47	Not insisted
Third	24	71	Not insisted
Fourth	23	94	26 credits from S1 & S2
Fifth	23	117	Not insisted
Sixth	23	140	71 credits from S1 to S4
Seventh	22	162	Not insisted
Eighth	18	180	117 credits from S1 to S6

*For further details, refer the A.P. J. Abdul Kalam Technological University Website*

## FOR M.TECH. PROGRAMME

1. The assessment procedure and corresponding weights are as follows:-

For theory courses

- i) Two internal tests, each having 15%
- ii) Tutorials/Assignments/ Mini projects having 10%
- iii) End Semester examination having 60%

All the above are mandatory requirements to earn credits.

2. Students who have missed either the first or the second test can register with the consent of the faculty member and the Head of the Department concerned for a re-test which shall be conducted soon after the completion of the second test and before the end semester examination. The re-test will cover both the first and the second test course plans. If a student misses both the scheduled tests, there is no provision for any retests and zero marks will be

given for each test. In case of serious illness and where the attendance is above 70% the Principal may permit the conduct of the tests for a student based on his application and other relevant medical reports. Such cases are to be reported to CGPC.

3. For Laboratory /Practical courses
  - i) Practical Records /outputs 40%
  - ii) Regular Class Viva-Voce 20%
  - iii) Final Test (Objective) 40%

*For further details, refer the A.P. J. Abdul Kalam Technological University Website*

## **RULES OF ATTENDANCE & LEAVE**

1. A student is required to possess minimum 75% (B.Tech. programmes), and 85 % (M.Tech. programmes) attendance respectively if he/she is to be admitted for the university examination.
2. A student is required to possess minimum 80% attendance (B.Tech programmes), if he/she is to be admitted for the Internal Examinations.
3. Students should inform the class teacher/associate class teacher/ programme coordinator before taking leave.
4. Attendance shortage will not be condoned at the university level unless the absence is regularized by a leave application. The application form is available in the department. Hostellers must collect the leave application form from their respective hostel wardens.
5. Procedure for leave application:
  - The duly filled application signed by the student and the parent/guardian/warden is to be presented to the class teacher/ programme coordinator (for M.Tech students).
  - If the attendance percentage falls below 90% at any stage, the

student will have to meet the HOD after meeting the class teacher/programme coordinator.

- If the attendance percentage falls below 80% at any stage, the student will have to meet the Principal, after meeting the class teacher/programme coordinator, and the HOD.
6. In all cases where leave of absence is required due to illness, the application for the same must be supported by a medical certificate, and this should be submitted within 3 working days. In this case, the class teacher/programme coordinator should forward the leave application to the Head of the Department, who can grant/refuse the leave.
  7. A student absenting himself/herself without leave for more than 10 consecutive working days will have his/her name removed from the rolls. He/she will be readmitted only on payment of readmission fee with fine, if any.
  8. The Principal alone can grant leave of absence from an examination/ test on the recommendation of the concerned faculty and HOD.
  9. The Principal will carry out random checking of the attendance records, and strict action will be initiated against regular absentees.

## **AWARDS & SCHOLARSHIPS:**

### **The Honours List**

These are awarded to the top five students of each branch based on the aggregate marks secured on first attempt till the previous semester university examinations. Selected students will receive a merit certificate, will be issued three more books from the library, and can have 100 pages printed free of cost from the Central Computing Facility. The toppers in each class will also be awarded with a cash prize sponsored by the alumni.

### **Perfect Attendance Award**

These are awarded to all students who secure 100% attendance in each semester. Selected students will receive a merit certificate, will be issued three more books from the library, and can have 100 pages printed free of cost from the Central Computing Facility.

### **Merit Award in Mathematics**

These are awarded to students based on the aggregate marks in Mathematics (university marks) obtained from the first year onwards up to the fifth semester. The total marks will be 600 (150 X 4). Only the marks on the first attempt will be considered for the award (improvement/supplementary marks will not be considered). Cash prizes will be awarded to the selected students.

### **Proficiency Awards**

These are awarded at the end of the fourth year to those students who have secured the maximum marks in each branch, based upon the total marks secured by the student up till the seventh semester. The award carries a cash prize and a proficiency certificate.

### **Gold Medals & Merit Awards/Special Awards for Outstanding Performers**

These are awarded to the toppers in each branch based on the total marks scored by them by the end of the programme. The gold medals

and certificates will be awarded on the Course Completion Day of the subsequent year.

Special Awards, consisting of Certificate and Cash Awards, are given to students who perform outstandingly well in a semester, and score A, A+ or O in all subjects in the semester-end university examinations. These are awarded during the Course Initiation Ceremony of the new admissions.

### **Prof. Dr Rajan V.K. Pillai Memorial Award**

This award is instituted in memory of the former Professor and Head, DCS, late Prof. Dr Rajan V.K. Pillai, who was instrumental in establishing and developing the department and its facilities, and introducing new courses and electives. It is awarded to either a B.Tech. or an M.Tech. student on the basis of his/her outstanding academic/research performance, and presented on the Course Completion Day.

### **Special Endowment Award for GATE top scorer**

This award has been instituted by Prof. M. Mahadevan, former Principal, RSET in memory of his parents, the late Sri. T. A. Mahadevan Pillai & Smt. K.N Seetha, and is awarded to the top scorer in the GATE examination. It is presented on the Course Completion Day.

### **Scholarships**

The toppers in the merit list for admission whose entrance rank is below 2000 will be given scholarships. The scholarship amount will be decided by the management from time to time. The scholarship will continue in the second and subsequent years provided the students maintain good conduct and keep their academic position within the top 20% of the class based on sessional/ University exam marks.

Students belonging to economically weaker sections, who secure admission based on the allotment by the Commissioner of Entrance Examinations, will be granted 100% fee concession, provided they possess BPL card or other documentary evidence. The number of scholarships is limited to ten.

## GENERAL REGULATIONS & INFORMATION

### CODE OF CONDUCT:

1. The working hours are from 8.30 a.m. to 4.30 p.m. Students should on no account arrive late in the classroom. At the stroke of the second bell, students should stand up for the Rajagiri anthem.
2. B.Tech students should wear the complete uniform, with their photo identity cards, on all days.
3. The prescribed style of the uniform shirt is half-sleeves. Variations from the prescribed style will not be permitted unless prior sanction on genuine grounds is obtained from the Principal. The uniform shirt should be neatly tucked in, and students are to wear only black/brown belts. Headscarves, if worn, should be black in color.
4. Boys should have their hair cut neat and short. Students are to wear shoes/footwear with back straps to college. All students are required to compulsorily wear shoes to prescribed laboratories for safety purposes.
5. All post graduate students should come to the campus in formal dress. Jeans, Leggings, T-shirts and other casual wear are not allowed in the institution. Boys should have their hair cut neat and short, and should be dressed in shirts and trousers. Girls should be dressed in sari or salwar kameez with a shawl. Photo identity cards are compulsory on all days.
6. Students should abide by the dress code specially prescribed by the college authorities for events at which uniforms are not compulsory (e.g. Onam celebrations, Farewell etc). Variations will not be permitted. Dress code for such occasions will be separately specified.
7. Students are expected to be polite in language and behavior. They should greet their teachers when they first meet them for the day. When the teacher enters the classroom the students should stand up, and remain standing until the teacher takes his/her seat or allows them to sit down.

8. Misbehavior towards girl students, use of threat or violence against members of the staff or fellow students will be considered as very serious cases of misconduct.
9. Students are advised to check RSMS, and the notice boards every morning and evening. They should also check the A.P.J. Abdul Kalam Technological University website and the RSET institutional website regularly.
10. Students should use the property of the institution with care and keep the buildings and the premises clean. In case of material damage to the institutional property caused by indifference or deliberate action, compensation, as decided by the authorities, should be paid by the student or guardian.
11. Smoking and consuming alcoholic drinks are strictly prohibited in the campus and hostels. Damaging furniture, defacing the walls, repeated absence from the class without leave, misbehavior in class, general neglect of studies and of other duties will be considered as serious offences.
12. Eatables are strictly prohibited inside the classroom. Students who bring their lunch should take their lunch at the Common Room in the Chavara Hall.
13. Birthday celebrations should not be conducted inside the classroom or during regular working hours.
14. Students are advised not to invite friends to visit them in the institution during working hours or during any of the programmes conducted by the institution.
15. As per the Government directive, camera cell phones are banned on the campus. Use of mobile phones is strictly forbidden inside the college building. Students are advised not to bring mobile phones and other valuables to the campus.
16. First year B.Tech. students are not allowed to bring either two wheelers or four wheelers to the campus. However students (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> years of B.Tech. courses and M.Tech. only) who wish to bring their own vehicles to the campus have to apply for vehicle

entry permit in the prescribed format. The student will have to submit copies of his/her valid driving license, RC book in his/her name, and a letter from his/her parent permitting him/her to use the vehicle in order to apply for the permit. Vehicle entry permits in the form of stickers valid for one academic year will be issued for two/ four wheelers. Vehicles without such valid stickers will not be permitted inside the campus. Students who violate the stipulated conditions will forfeit their vehicle entry permit for the academic year and will have to pay a hefty fine.

17. Over speeding in the campus will result in cancellation of vehicle entry permit.
18. Helmet is mandatory for two wheelers; and seat belts are compulsory for four wheelers.
19. Ragging/any type of misconduct towards any student will be considered as criminal offence and will be immediately reported to the police. Perpetrators will not be permitted to continue their studies.
20. Politics is banned in the college campus including the hostels. The members of the college community are not allowed to act on behalf of the political parties or communal organizations.
21. Students are forbidden to organize meetings or collect money for any purpose, or to circulate in the institution any notice or petition, or to display them on the notice board or the institution's premises without the permission of the Principal.

### **LIBRARY RULES:**

1. The library is open from 8.00 a.m. to 8.00 p.m. on all working days, and from 9.30 a.m. to 4.00 p.m. on all Sundays and holidays.
2. Strict silence should be observed in the library and the reading room.
3. Students should bring their identity cards when they come to the library. Books will be issued only on production of identity cards.
4. Books and other personal belongings should not be taken into the library.

5. All the books should be returned on the due date. Absence from college will not be an excuse for not returning the book on time.
6. B.Tech students can borrow three books at a time and keep them for a period of 10 days without fine. If any body fails to return the book on time a fine will be imposed at the rate of Rs. 2/- per day for the next 10 days, and thereafter the fine will be doubled.
7. M.Tech students can borrow five books at a time and keep them for a period of 15 days without fine. If any body fails to return the book on time a fine will be imposed at the rate of Rs. 2/- per day for the next 15 days, and thereafter the fine will be doubled.
8. Research scholars (PhD) can borrow seven books at a time and keep them for a period of 30 days.
9. Faculty members can borrow seven books at a time. The books will be issued for 15 days. All the books taken by the faculty must be returned at the end of the semester.
10. Lost book has to be reported to the library staff as soon as possible. Lost books will have to be replaced or the cost of the book will be collected. The cost of the lost books will be assessed as multiples for each decade according to the year of publication of the book.
11. Books and periodicals should be used with care. The members will be held responsible for any damage caused to the books borrowed by them. Pencil marks, ink stains etc. made in the books are also treated as damages. If the book is already damaged the fact should be pointed out to the Librarian at the time of the issue of the book.
12. If a member damages a book or periodical, he/she will have to replace it or pay the cost. In case one book of a set is damaged, the whole set must be replaced.

### **COMPUTER USAGE POLICY:**

1. The Central Computing Facility (Zuse) is open from 8.30 a.m. to 7.00 p.m. on all working days, from 9.30 a.m. to 4. 30 p.m. on all restricted holidays, and from 9.30 a.m. to 12.30 p.m. on Sundays.
2. The Photon, Quantum, Hercules, Ulysses, ARC, Systems Lab and Heisenberg labs are meant for specific laboratory sessions/

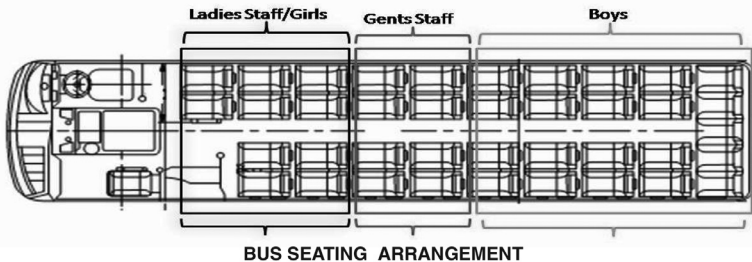
restricted use, and students are expected to enter these labs only with the permission of the concerned faculty members.

3. Users are to log into RSET computers and systems with their own unique userID and password. They should not use someone else's userID and password to access RSET computer systems. They should not allow anyone to use their userID and password to access the computer systems.
4. Users must log out of the system and switch off the monitor when they leave the lab - even if only for a short time. Failure to do so may result in someone else accessing their account without their knowledge. They are responsible for any violation of college policies that occur with their account, even when they did not perform the action.
5. Do not place any books or personal belongings on any printer, monitor, or computer equipment. This can interfere with hardware operation and / or affect proper cooling functions of the equipment.
6. Students are responsible for cleaning up any area they use/ this includes discarding scrap paper or printouts in their proper recycling or trash receptacle.
7. Loading or installation of any files/ software/ programs/ games on the hard drive, alteration of system settings or configuration is prohibited. Any software download requires the permission of the System Administrator/ technical staff.
8. During regular lab hours, the Internet may be used only for work directly related to class work.
9. The display or transmission of threatening, obscene, or harassing materials is strictly forbidden.
10. Special sanction is to be obtained from the System Administrator for use of removable disks including floppy discs, CDs, USB drives etc. Any attempt to breach security will result in the removal of their account and loss of lab privileges.
11. Users should not engage themselves in playing computer games, online bidding, chatting, etc.

### BUS FACILITY RULES:

The following guidelines should be strictly observed by all students availing of the college bus facility:

1. Everybody should maintain discipline in the bus. Don't use bad words / language in the bus. Follow the instructions given by the Bus Coordinator.
2. Every student should have his/her valid College ID card to travel in the bus. He/She should show the ID card issued by the authority, as and when asked by the Bus Coordinator or any authority of the college.
3. Nobody should play songs on Mobile/FM or any other device loudly. However, they may use earphones to listen to music.
4. Don't talk or discuss anything with the Bus Driver when he is driving.
5. Smoking and chewing tobacco in the bus is strictly prohibited.
6. The departure timing (Bus Schedule) will be strictly followed by the Bus Driver at each point. No personal request/excuses will be considered. The decision of the Bus Coordinator will be final in this regard.
7. In the event of breakdown, students on board the bus must remain within the bus until alternative transport arrangements have been made.
8. Girls and boys are not allowed to sit together.



## LANGUAGE LAB RULES:

RSET wants to ensure that the Language Lab experience is a positive and rewarding one for the students, and provides equal opportunity for all. These rules have been drafted keeping this in mind. Students are hereby enjoined to adhere to these rules.

- ❖ The lab is open only for allotted remedial classes, or on request, during the regular working hours of the college, on all working days. The lab will be kept open after 4.30 p.m., only up to 6.30 p.m., if the students request in advance.
- ❖ Students desirous of availing of the facility have to contact the faculty-in-charge of the lab to get the allotment.
- ❖ Students should be in full uniform, with identity cards to be allowed access.
- ❖ Duration of a lab session will be 55 minutes per visit if the lab is full. If there are no students waiting to use the facility, a student may be permitted to continue working until the station is needed. Permission has to be taken from the faculty-in-charge before continuing beyond the 55 minute time limit.
- ❖ Mobile phones are banned inside the lab.
- ❖ Students are advised to refrain from idle conversation in the lab.
- ❖ Failure to abide by the rules and regulations will result in disciplinary action. Abuse or misuse of the lab, i.e. “anything detrimental to the condition of the equipment and/or the learning environment of the lab” will not be tolerated. If you are found abusing the equipment or altering the software you will lose your lab privileges, as well as forfeit any points that are given for lab time in your class syllabus (in the case of credited courses).

## GENERAL INFORMATION:

- ❖ Private Bus Concession Forms & Railway Concession Forms are available at the office. Those who need Railway Concession Forms may give in a request through the Administrative Officer, addressed

to the Principal, clearly mentioning their date of birth, boarding point and destination.

- ❖ On loss of identity cards, students should approach the office for issue of temporary identity cards, on payment. The request letter for the same must be addressed to the Principal, forwarded by both the Class Teacher and the Head of the Department, and submitted to the Administrative Officer.
- ❖ Students who require Bona fide Student Certificate/ Fee Structure etc., or those who need any document attested should give in their request letter addressed to the Principal, forwarded by both the Class Teacher and the Head of the Department, to the Administrative Officer.
- ❖ Late comers are required to get the permission of the Principal before being permitted in class.
- ❖ There is provision for students to take printouts from the Central Computing Facility, at the rate of Re.1/- per page. Coupons for the same are available in the office.
- ❖ First Aid Box is available in the office.

## STAFF LISTS

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34	Ms. Sangeeta Regi Mathew	B.A , PGDM	Teaching Assistant	233	860621 1977	sangeeta.rm1994@gmail.com
<b>STUDENT WELFARE- COUNSELING</b>						
35	Dr. Silvy Mathew (On leave)	MSW, M.Phil., PhD	Student Welfare Officer	243	996161 4500	silvy@rajagiritech.edu.in
36	Ms. M. Revamma	B.Sc. M.SW	Student Welfare Officer (part-time)	243	9447825658	revammam@gmail.com
<b>TECHNICAL STAFF</b>						
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2	Mr. Thomas Vargheese	SSLC	Lab Assistant – Physics lab	453	9496788078	thomasv@rajagiritech.edu.in



ADJUNCT FACULTY			
No.	Name	Affiliation	
1	Fr. John T. M.	Rajagiri School of Engineering & Technology	
2	Dr. Ing. Jurgen Trost	School of Engineering, Reutlingen University, Germany	
3	Dr. Ing. Harald Drück	Institute of Thermodynamics and Thermal Engineering, University of Stuttgart, Germany	
4	Dr. Jimson Mathew	Indian Institute of Technology, Patna	
5	Dr. Suresh Nair	NeST	
6	Dr. Sachin George	Rajagiri Hospital	
7	Dr. Ajith Toms	Rajagiri Hospital	
8	Dr. Binu Joy	Rajagiri Hospital	
9	Dr. Paul Thadikaran	Intel	
10	Mr. K. Rama Varma	Rajagiri School of Engineering & Technology	
11	Prof. Dr. So.techn. Michael Pfeffer	Pro Vice Chancellor, Ravensburg - Weingarten University, Germany	
12	Dr. Mohan V. Jacob	College of Science, Technology and Engineering, James Cook University, Townsville, Australia	
13	Dr. Govind Sreekar Shenoy	Institute of Computer Systems Architecture, School of Informatics, University of Edinburgh, Scotland	
GUEST FACULTY			
No.	Name	Department	
1	Dr George Peter	DBSH	
2	Ms. Remy Elizabeth Palapokayil	DBSH	
ADMINISTRATIVE & LIBRARY STAFF			
No.	Name	Designation	E-mail Address
1	Mr. Ignatius P. J.	P. R. O.	Ignatiuspj@gmail.com
2	Mr. Kuriakose M. T.	Administrative Officer	kuriakose_mt@rajagiritech.edu.in

No.	Name	Designation	Extension	Phone Number	E-mail Address
3	Mr. Reji V.V.	Senior Office Assistant	221	94957 35640	reji_v@rajagiritech.edu.in
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7	Ms. Bindu Paul	Record Keeper	221	0484 2348251	bindu_paul@rajagiritech.edu.in
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12	Mr. Shiju Kuriakose	Attender	269	97440 46450	
13	Mr. Antony Motti	Attender	296	99611 40233	
14	Mr. Cyriac Thomas	Attender		9207511303	
15	Mr. Denny Thomas M.	Attender	204	9961434904	
<b>ACCOUNTS &amp; FINANCE OFFICE</b>					
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17	Mr. Sheebumon Jacob	Accounts Officer	236	94973 48320	
18	Mr. Shiju M. Nair	Accountant	236	98955 91998	shiju_m@rajagiritech.edu.in
19	Mr. Rijo K. Varghese	Junior Accountant	236	94968 27447	
<b>MAINTENANCE</b>					
20	Mr. Mathachan M.J.	Maintenance Engineer	282	94474 21940	
21	Mr. Saji Joseph	Maintenance Assistant	297	98461 59005	
22	Mr. Arun James	Supervisor- Electrical & Maintenance		94963 60314	

23	Mr. Joshy C.V.	Electrician	246	94488 67431	tony_joseph@rajagiritech.edu.in
24	Mr. Bijumon C.S.	Electrician	246	98953 93118	
25	Mr. Gopakumar N.G.	Electrician	246	97465 23600	
26	Mr. M.A. Damodaran	Security Officer		97474 80226	
27	Mr. Soman P.K.	Ground Marker		99612 00320	
28	Mr. Joby Antony	Electrician		8547281157	
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30	Sr. Annakkutty T.C. (M.A., B.Ed, M.LI Sc.)	Asst. Librarian	207	94957 78341	
31	Mr. Shibu Pariyath (M. LI Sc.)	Library Assistant	207	96054 07533	
32	Mr. Sijo Thomas (M.LI Sc.)	Library Assistant	207	95262 43127	
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	<b>INTERNATIONAL OFFICE</b>				
34	Ms. Shruthy Y.	Office Assistant 313	82898 57956		shruthy@rajagiritech.edu.in
	<b>INCUBATION CENTRE</b>				
35	Mr. Rijin John	Chief Operations Officer		98950 50030	rijinjohn@gmail.com
	<b>PRO ACADEMY</b>				
36	Mr. Muneez Rahman	Chief Operations Officer	335	9846098609	muneez@rajagiriproacademy.com
37	Mr. Vinod Kutty	Training Manager	335	8086444677	vinod@rajagiriproacademy.com
38	Ms. Noora M.	L&D Manager	335	9048255588	noora@rajagiriproacademy.com
39	Ms. Jeena R. Sha	Program Manager	335	8086046666	jeena@rajagiriproacademy.com
40	Mr. Dennis Britto	Asst. Manager – Accounts	335	9048722224	support@rajagiriproacademy.com

## ACADEMIC & SUPPORT RESOURCES

### PARENT TEACHER ASSOCIATION:

The parents are provided with the opportunity to observe the working of the institution, and to give their valuable suggestions for better quality service through the interaction with the faculty and the management. The PTA has an executive committee comprising the parents of students' branch wise and year wise and the representatives of the faculty including the Director and the Principal. The committee meets at least twice in a year to discuss all matters of interest.

### STUDENTS' GRIEVANCE REDRESSAL:

The mechanism takes care of the complaints and difficulties of the student community. At the primary level, the teacher-in-charge listens to the problem in detail. If it is an academic matter, the faculty member of the concerned subject is consulted to sort out the case. If the situation demands, the teacher-in-charge will also contact the parent/guardian/hostel warden.

The teacher-in-charge refers unresolved cases to the HOD. The two members can avail the services of the Student Welfare Officer if needed. At the appellate level, the Principal will redress all the unresolved cases in consultation with the College Council and the Director.

### GRIEVANCE REDRESSAL CELL:

Dr Jaison Jacob - Chairperson

Mr Sidheek P.A. - Secretary

Members: Fr Ajeesh Puthussery, Ms Caroline Ann Sam, Ms Jincy Fernandez

### COMPLAINTS COMMITTEE AGAINST SEXUAL HARASSMENT (CCASH):

In compliance with the Supreme Court Judgment and guidelines issued in 1997 as well as the 'Sexual Harassment of Women at Work Place (Prevention, Prohibition, and Redressal) Bill 2006', to provide for the

effective enforcement of the basic human right of gender equality and guarantee against sexual harassment and abuse, RSET had constituted a Women’s Grievance Redressal Committee (WGRC) in 2009. The afore said bill was enacted in April 2013 and keeping with the spirit of the Act, the WGRC has been renamed as the Complaints Committee against Sexual Harassment (CCASH) to make its purpose more explicit.

**Committee Members:**

- |   |  |
|---|--|
| 1. Dr. Aysha Zeneeb Majeed              | - DCE - Chairperson  |
| 2. Ms. Santhi B.                        | - DEE - Convener   |
| 3. Ms. Priya S.                         | - DEI  |
| 4. Ms. Anitha Varghese                  | - DCE  |
| 5. Ms. Jisha G.                         | - DIT  |
| 6. Ms. Anita John                       | - DCS  |
| 7. Mr. Mathew Baby                      | - DME  |
| 8. Ms. Bindu V. A.                      | - DBSH   |
| 9. Mr. Reji V.V.                        | - Administration   |
| 10. Dr. Celine Sunny                    | - Sociologist and Research head,<br>RCSS (ex-officio member) |
| 11. Student Council<br>Vice Chairperson | - (ex-officio member)  |

**Objectives:**

1. To act as an inquiry authority on a complaint of sexual harassment.
2. Deal with cases of sexual harassment in a time bound manner, aiming at ensuring support services to the victimized and termination of the harassment.
3. Take proactive measures to sensitize the staff, faculty and students about gender issues, sexual harassment and its legal implications through awareness seminars, campaigns, talks etc.

**Procedure for Lodging a Complaint with the Committee**

A written complaint of sexual harassment may be lodged by the aggrieved woman (who can be a teaching or non-teaching staff or a

student of RSET) or a third party with any member of the complaints committee within a period of three months from the date of sexual harassment or in case of a series of incidents within a period of three months from the date of last incident. An inquiry will be conducted soon afterwards and during the pendency of the inquiry the aggrieved woman will be provided with all the necessary support as deemed fit for the situation on her request. According to the Supreme court guidelines, sexual harassment can be defined as “unwelcome” sexually determined behaviour (whether directly or by implication) such as:

- Physical contact and advances;
- Demand or request for sexual favours;
- Sexually coloured remarks;
- Showing pornography; and
- Other unwelcome physical, verbal or non-verbal conduct of a sexual nature. (Vishaka judgment by Supreme Court)

**The following are also sexual harassments and are covered by the committee:**

- Eve-teasing,
- Jokes causing or likely to cause awkwardness or embarrassment,
- Innuendos and taunts,
- Gender based insults or sexist remarks,
- Unwelcome sexual overtone in any manner such as over telephone (obnoxious telephone calls) and the like,
- Touching or brushing against any part of the body and the like,
- Displaying pornographic or other offensive or derogatory pictures, cartoons, pamphlets or sayings,
- Implied or explicit promise of preferential treatment in her employment in exchange for sexual favours
- Implied or explicit promise of threat/detrimental treatment in her employment on refusal of sexual favours

- Interference with her work or creating an intimidating/hostile work environment for her.

### **ANTI-RAGGING CELL:**

Anti-ragging Cell is in operation under the overall charge of the Principal. Students are advised to bring cases of ragging (either on the college campus or in the hostel) to the notice of the Principal/members of anti-ragging committee/teachers/hostel wardens. The offenders shall be liable for punishment with imprisonment and fine. Offenders may be expelled from the institution.

Convener: Dr A.Unnikrishnan, Principal

Coordinator: Mr. Ajith S. (DCS)

#### **Members:**

- Mr. Biju Abraham Narayamparambil (DCS)
- Fr Joseph Mathew (DEI)
- Fr Mejo Paul (DEE)
- Fr P.J. Thomas (DEI)
- Ms Mary Priya Sebastian (DCS)
- Ms Jayasri R. Nair (DEE)
- Mr. Krishna Kumar K.P. (DEI)
- Mr. Vineeth Krishna (DME)
- Mr. Sujith S. (DBSH)
- Mr. Senjo Manuel (DME)
- Ms. Sindhu U. (DCE)
- Ms. Revamma M. (Student Welfare Officer)
- Mr. Rejeesh T. Chacko (Physical Education)
- Representative from Students Council
- Student representative from First Year
- Representative from PTA
- Representative from NGO

- Representative of Civil Administration
- Representative from Police Department
- Representative from Media

**KTU EXAMINATION CELL:**

❖ Ms. Rithu James & Mr. Harikrishnan C.	Conveners
❖ Mr. Balu Raveendran	DEI
❖ Mr. Jayakumar J.	DCE
❖ Ms. Jomina John	DCS
❖ Mr Uday Babu P.	DCS
❖ Mr. Abhishek Viswakumar	DEC
❖ Ms. Anumol	
❖ Fr. Mejo Paul CMI	DEE
❖ Ms. Chinchu Krishna	DIT
❖ Mr. Krishnaraj	DME
❖ Sr Alphonsa Thomas	DBSH

Software Support: Mr. Arun Kumar S., Mr. Jose Steeveson

Technical Support: Mr. Shaibu Kurian, Mr. Sunil Kumar K.S., Mr. Jeeson John, Mr. Vinayak V.V., Mr. Cleetus E.M., Mr. Thomas Varghese

Administrative Support: Mr. Thomas T.J.

**EXAMINATION MONITORING CELL:**

All HoDs

Prof. P.R. Madhava Panicker

Prof. Dominic Mathew

Prof. J.T. Kuncheria

Dr Vinod Kumar P.B.

## **STUDENTS' AID FUND:**

The Students' Aid Fund aims at providing financial assistance to students who are in need. A committee comprising the Director, Principal, HODs, College Council secretary, Vice President of the PTA, Secretary of the PTA and Chairperson of the Student Council, looks into the organization and operation of the Students' Aid Fund. The committee is responsible for deciding the eligibility criteria and assistance amount, and identifying the students who are to be given financial assistance.

## **STUDENT SUPPORT RESOURCES:**

### **Student Welfare:**

The Student Welfare Officer offers counseling to the students on their personal and academic problems.

Student Welfare Officer: Ms Revamma M. , Dr Silvy Mathew (on leave)

### **RSET Language Lab:**

The RSET Language Lab, apart from offering lab sessions specified in the syllabus, provides language tutorials for students who voluntarily opt for Remedial English classes. The exercises give the students exposure to a variety of listening and speaking drills, helping them to overcome language deficiencies, and improve their command over the language.

### **Industrial Training:**

Industrial training is provided to students every year in order to facilitate better exposure to emerging trends in the industry, and help them gain hands on experience.

### **Student Enrichment Programmes:**

- Personality and aptitude development programmes
- Coaching for competitive exams like GATE etc
- Communication skills development
- Membership in professional bodies like ISTE, IEEE, IE (I) etc

- Student Seminars and Presentations
- National Seminars and Technical Symposia for research scholars and engineering students

**Career Guidance Cell:**

The Career Guidance Cell organizes lectures, presentations and seminars; and acts as an information source on higher education and career opportunities. It helps the students analyze their aptitude, and make the best choice from the available alternatives.

**Placement Cell:**

The Placement Cell keeps track of openings within the country and abroad, and brings in companies for campus recruitment. It prepares students for recruitment by providing training through aptitude tests, group discussions and mock interviews.

Coordinators: Mr. Biju Paul, Mr. Varghese S. Chooralil, & Mr. K. Uday Sankar

**Entrepreneurship Development Cell & Incubation Center:**

The Entrepreneurship Development Cell has been set up with the objective of inculcating an entrepreneurial culture in the students, and to sensitize them to the real economic and industrial development scenario. The ED Cell organizes interactive sessions with successful entrepreneurs, workshops and debates, and interaction with promotional agencies.

The Rajagiri Incubation Centre (RIC) provides RSET alumni and students with facilities that will help them design and develop the working models of their innovative ideas and concepts. The center is supported by a set of committed and experienced faculty members who provide constant encouragement for new and developmental initiatives.

Coordinators: Mr Balu Raveendran, Mr Jibin Joseph, Ms Diya Thomas, Mr Dhanesh M.S., Mr. Unnikrishnan L., Ms Nikhila T. Bhuvan, & Mr Abinson Paul

### **Industry-Institute Interaction Cell:**

Industry-Institute Interaction Cell has been set up with the objective of promoting interaction between industry and institute for the betterment of engineering education offered at RSET. The cell provides opportunities to the faculty and students to get familiarized with the practices of the industry and its associated activities, thereby bridging the gap between academic learning and industry applications.

The cell organizes industrial visits, industrial training, seminars, workshops, technical talks etc. Students also get the opportunity to interact with senior executives from various industries under the programme 'Tea with a CEO'.

Tie up with different industries have been established in various aspects like sharing expertise and building supportive partnership and network; developing academic-industry interface by undertaking R&D projects, students projects, consultancy services, support for the design / development of industrial projects; and identifying talented students and nurturing their capabilities amongst others.

Coordinators: Dr Thankachan T. Pullan, Dr Aysha Zeneeb, Ms Saritha S., Dr Anand S., Fr Thomas P.J., Ms Sangeetha Jamal, Mr Unnikrishnan L.

### **Software Development Unit:**

Rajagiri Software Development Unit has been formed to fulfill all the software needs of RSET. The group helps RSET with requirements gathering, requirements analysis, design, development, implementation, vendor validation, outsourcing, negotiations etc. The group is headed by the faculty, and has both faculty and software developers as its members. The group also employs RSET students who are capable of contributing to the appropriate activities of the group. The students thus get an opportunity to work on real projects which are later put in to use.

The RSET website and associated framework for automating the same, Rajagiri Students Management System, RSET & RSOM email servers, RSET Digital Library, RSET Payroll Management System, RSET Online

Examination System, Admission automation, Exam automation, and Maintenance Management System are a few of the software that have been developed by the unit. The unit also carries out consultancy work.

Coordinators: Mr. Biju Abraham Narayamparambil, Mr. Jobin Jose

### **Training & Development Cell:**

Globalization and the dynamic nature of the engineering stream have created the demand for engineers who are not only technically competent but who also have a fair measure of soft skills and intercultural awareness. Organizations look for employees having this competitive edge that will enable them to excel in their chosen field. The Training and Development Cell aims at fulfilling this need and ensuring a smooth transition for the student into the world of business as a full-fledged professional.

The objectives are to help students develop their personality and equip them with the additional skills necessary to succeed in the workplace. Complementing the technical knowledge received during the four year course, will be structured and continuous inputs on personality development and soft skills that will enable students to have a holistic view of themselves, their education and career choices. The areas of focus include:

- Self and context awareness
- Decision making and action planning
- Leadership skills
- Team skills
- Values & ethics

Coordinator: Prof. Jose Mathew Mattam

### **Rajagiri Research and Consultancy Center (RRCC):**

RRCC is a body that coordinates the research activities of Rajagiri School of Engineering & Technology in view of sponsored industrial projects and consultancy. RRCC consists of Centers of Excellences (CoEs) and Research Groups that nurture creative problem solving

skills of the faculty and students. Each CoE and Research Group consists of faculty members and students who research on specialized areas of engineering.

Coordinator: Prof. Dr (Engg) Varghese Panthaloorkaran CMI

### **Centers of Excellence:**

1. NeST Center of Excellence in IoT

Chair Professor: Prof. Dr. Poullose Jacob

Participating Departments: DEC, DCS, DIT, DAEI, DME & DBSH

2. Aalen University Nodal Center in Material Science (Upcoming)

Participating Departments: DME, DEC, DEE, DAEI

3. Rajagiri Institute of Education Technology (Upcoming)

Participating Departments: DBSH, DME, DEC, DAEI, DEE, DIT, DCS

### **Research Groups:**

#### **Department of Electronics & Communication Engineering:**

- Communication Systems Group
- Signal Processing Group
- VLSI & Embedded Systems Group
- Optomechatronics Group

#### **Department of Computer Science & Engineering:**

- Computer Architecture Group
- Computer Security Group
- Computer Networking Group
- Data Mining Group
- Image Processing Group
- Natural Language Processing Group

- Pattern Recognition & Fault Tolerant Computing Group
- Theoretical Computer Science Group
- Cloud Computing Group
- Software Engineering Group

**Department of Applied Electronics & Instrumentation:**

- Instrumentation Design & Development Group
- Process Control Group
- Signal Processing Group

**Department of Electrical & Electronics Engineering:**

- Power Electronics & Drives Group
- Intelligent Machine Control Group
- Distributed Grid Integration Group

**Department of Information Technology:**

- Distributed Computing & Systems Group
- Networks Group
- Data Mining Group

**Department of Mechanical Engineering:**

- Energy : Solar & Thermal Systems Group
- Computer Aided Engineering Group
- Manufacturing Engineering Group

**Department of Civil Engineering:**

- Structural Engineering Group
- Geotechnical & Environmental Engineering Group
- Transportation Engineering Group
- Water Resources Engineering Group

### **Department of Basic Sciences & Humanities:**

- Chaos and Fractals Group
- Fuzzy Systems Group
- Mathematical Morphology Group
- Complex Dynamics Group
- Fractal Geometry Group
- Graph Theoretic Signal Processing Group
- Electrochemical Energy System Group
- Nanomaterials Group
- Engineering Education Group

### **Interdisciplinary Research Groups:**

- Robotics & Automation Group (DEC, DCS, DME)
- Image Processing & Computer Vision Group (DEI, DEC, DIT, DCS)
- High Performance Computing Group (DEI, DEC, DCS, DIT, DEE, DME, DBSH)
- Machine Learning Group (DEI, DEC, DCS & DIT)
- Speech & Acoustic Image Group (DEI, DEC)
- Machine Learning Group (DEI, DEC, DIT, DCS)
- Bio-design, Instruments, Research & Development Group (DEI, DEC, DCS, DIT, DEE, DME, DBSH)

The Centers of Excellence (CoEs) and Research Groups also support students in developing their research and life-long learning skills and to implement their undergraduate/graduate projects. A typical undergraduate research project at RSET consists of four phases. 1) “Nano-project” phase, where the first year undergraduate students are initiated into the innovative themes of the respective engineering discipline, 2) “Micro-project” phase, where the undergraduate students get experiential introduction to undergraduate research, 3) “Mini-

project” phase, where concrete definition is given to the undergraduate project and 4) “Macro-project” phase, where the project is implemented and reported. Student groups are mentored by Centers of Excellence and Research Groups in view of the undergraduate/graduate/doctoral projects. The necessary skill-set required by specific project is acquired through dedicated programs like, workshops, industrial visits, conferences and lectures organized by Centers of Excellence and Research Groups. Students with motivation and talent can design and develop projects in these areas, starting right from their third semester.

**RAJAGIRI PROACADEMY:**

Rajagiri ProAcademy (RPA), the career training & development and digital learning division of Rajagiri School of Engineering & Technology in association with industry partners offers a wide range of professional courses, certification programs and training solutions for corporates, professionals, job seekers and students using the right mix of industry relevant curricula, innovative pedagogy and technology to impart professional learning and build successful careers.

**DYRECTION - Career Readiness Program (CRP)**

An ecosystem of new age tools, training & value-added services to assist and upskill students to be future ready and prepare them for better career prospects and life. A one of a kind pedagogy, where we adopt novel methods of skilling & leverage the power of free or open source content/ tools made available by world-class providers thereby making good quality education to all the students.

**GATE Coaching:**

Convener: Mr Sreekumar G.

Members: Mr Ajai V. Babu, Ms Anna Mathew, Mr Sidheek P.A., Mr Hari C.V., Mr Arun Balan, Ms Meenu Mathew, Ms Bency Wilson, Mr Sheebumon Jacob

**CAT Coaching:**

Convener: Dr Jobin K. Antony

Member: Mr. Sidheek P.A.

## CO-CURRICULAR/EXTRA CURRICULAR ACTIVITIES

### STUDENT COUNCIL:

The Student Council acts as an interface between the students and the management. It provides opportunities for the students to develop their social and cultural life, and focuses on the overall development of the individual. The Student Council also undertakes the responsibility of bringing out the annual college magazine.

Faculty Advisors: Mr Jose Antony V.J., Fr Ajeesh Puthussery, Ms Jisha G., Mr Arun T. Moonjely, Ms Priya S., Mr Sandy Joseph, Mr Ginnes K. John, Mr Nithin Babu, Mr James Mathew, Ms Tripti C., Mr Jiju K. Mathew

### MAGAZINE:

Faculty Advisors: Ms Maleeha Abdul Azeez, Mr Arun Balan, Mr Hari C.V.

### ARTS CLUB:

The RSET Arts Club encourages the artistic talents of the students, provides them with the opportunity to hone their organizational skills and develop a spirit of sportsmanship and cooperation. It organizes the annual Arts Festival – ‘Bharatham’.

Faculty Advisors: Mr Binu R., Mr John Paul, Ms Bency Wilson, Ms Anitha Varghese, Ms Prathibha P.K., Mr Sreekumar G., Ms Aparna George, Ms Dincy Paul, Mr Saibil A.R.

### MUSIC CLUB:

The RSET Music Club is formed with the active participation of students from all batches. The club encourages the students to generate new horizons to their music dreams.

Faculty Advisors: Mr Bibin Hezakiel, Ms Rinju Mariam Rolly, Mr Balu Raveendran, Mr John Paul, Ms Tressa Kurian, Ms Meenu Mathew, Mr Kuriakose M.T.

### LITERARY FORUM:

The Literary Forum provides the students with opportunities to develop

and hone their creative skills, and conducts literary workshops, seminars and discussions on literature and creative writing.

Faculty Advisors: Ms Saritha V., Ms Kavitha M.

**DEBATE CLUB:**

Faculty Advisors: Ms Mary Priya Sebastian, Ms Saritha V., Mr Joseph John, Mr Vishnu Shankar

**MEDIA CLUB:**

The Media Club aims to be a platform that stimulates public dialogue, a force that supports the creation of new works, and a picture show that appeals to professionals as well as those who love photography and are simply curious to discover the unknown that surrounds them.

Faculty Advisors: Mr Jose Antony V.J., Mr Sujith S.

**MATHEMATICS CLUB:**

The Club aims at promoting the mathematical skills and sharpness of the students. Membership is open to all students with a strong affinity for mathematics. The activities of the club include quizzes, puzzles, video shows, projects, workshops etc.

Faculty Advisors: Ms Maria Sebastian, Ms Jaya Abraham

**QUIZ CLUB:**

The chief objective of this club is to encourage students to develop both their Engineering and General knowledge, by participating in various intra and inter college competitions. Right from its inception, the quiz club has won laurels for the college with its various achievements.

Faculty Advisors: Ms Neeba E.A., Mr Vishnu Sankar

**NATURE CLUB:**

The RSET 'TREE' (Together Restoring Environment Effectively) Nature Club organizes nature conservation activities, study trips, quizzes, bird watching trips etc. Cycle campaign trip and trekking are the specialties. The club aims at promoting an eco-friendly life style in the society.

Faculty Advisors: Fr Jaison Paul, Fr Joseph Mathew, Dr Ramkumar P.B., Mr Abhishek Viswakumar, Ms Rinu A.K.

### **NATIONAL SERVICE SCHEME (NSS):**

The NSS unit (Technical Cell Unit No. 232) actively undertakes social and humanitarian projects. The unit helps the wards near the college by sponsoring educational needs of their children.

Faculty Advisors: Mr Rejeesh T. Chacko, Dr Abraham Thomas, Fr Mejo Paul, Ms Lisha Paulose, Mr Arun Balan, Mr Mathews Abraham, Mr Jebin Francis, Mr Vineeth Krishna, Mr Bonifus P.L., Mr Sandy Joseph

### **SPORTS CLUB:**

Faculty Advisors: Dr Shibu P.P., Mr Rejeesh T. Chacko, Ms Lisha Paulose, Fr Joseph Mathew, Mr Naveen N., Ms Harsha A., Ms Sangeetha Jamal, Mr Varghese S.C., Mr Ginnes K. John

### **ENERGY CONSERVATION & ENCON CLUB**

Faculty Advisors: Mr Biju Abraham N., Mr Jibin Noble, Mr Unnikrishnan L.

### **HONESTY SHOP:**

Faculty Advisor: Ms Maria Sebastian, Mr Jaison Jacob

### **CHRISTIAN ACTIVITY:**

Faculty Advisors: Fr Thomas P.J., Fr Joseph Mathew

### **PROFESSIONAL BODIES:**

- ***IEEE (Institute of Electrical And Electronics Engineers) STUDENT CHAPTER***

Faculty Advisors: Dr Deepti Das Krishna, Mr Jebin Francis, Ms Meena V.

- ***ISTE (Indian Society For Technical Education) CHAPTER***

Faculty Advisors: Mr Jibin Noble, Mr Abhishek Viswakumar

- ***CSI (Computer Society of India) CHAPTER***

Faculty Advisors: Ms Preetha K.G., Ms Tripti C.

- ***IETE (The Institution of Electronics And Telecommunication Engineers)***  
Faculty Advisors: Dr S. Anand, Ms Tressa Michael
- ***IEI (The Institution of Engineers)***  
Faculty Advisors: Dr John M. George, Prof. K.A. Ouseph, Ms Jayasri R. Nair, Ms Anitha Varghese
- ***IIW (Indian Institute of Welding)***  
Faculty Advisors: Dr Thankachan T. Pullan, Mr Jibin Noble
- ***Yi (Young Indians, part of CII - Confederation of Indian Industry)***  
Faculty Advisors: Dr Aysha Zeneeb, Mr Jeffin Johnson
- ***ISOI (Instrument Society of India)***  
Faculty Advisors: Prof. Dominic Mathew, Mr. Krishna Kumar K.P.
- **IEEE (IAS) Chapter**  
Faculty Advisor: Mr. Jebin Francis
- **ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers)**  
Faculty Advisor: Mr. John Paul
- **ASME (American Society of Mechanical Engineers)**  
Faculty Advisor: Dr Manoj Tharian
- **ICI (Indian Concrete Institute)**  
Faculty Advisors: Mr Bibin Hezakiel, Ms Kavitha M.
- **SEEM (Society of Energy Engineers & Managers)**  
Faculty Advisors: Ms Caroline Ann Sam, Mr Unnikrishnan L.

## **BRANCH ASSOCIATIONS:**

The seven branch associations carry out various students' activities to enhance the general technical skills and awareness of students. They are:

- **APPTRONICS** – Applied Electronics & Instrumentation Engineering  
Faculty Advisors: Ms Priya S., Fr Thomas P.J.
- **NIRMANA** – Civil Engineering  
Faculty Advisors: Mr. Arun T. Moonjely, Ms. Elsa Paul
- **CYBERBLITZ** – Computer Science & Engineering  
Faculty Advisors: Ms Mary Priya Sebastian, Mr. Uday Babu P.
- **ELECTRONAUTS** – Electronics & Communication Engineering  
Faculty Advisors: Mr. Nithin Babu, Mr. Abhishek Viswakumar, Mr. Nitheesh Kurian
- **ELUXTRA** – Electrical & Electronics Engineering  
Faculty Advisors: Mr. Jebin Francis, Ms Renu George
- **i-TRAX** – Information Technology & Engineering  
Faculty Advisors: Ms Mary John, Mr. Mathews Abraham
- **REAL MECHANICA** – Mechanical Engineering  
Faculty Advisors: Mr. Jithin P.N., Mr. Vineeth K.P.

## RSET STUDENT COUNCIL 2017-'18

No.	Position	Name	Class
1	Chairperson	Bisto Baby	S7 ME Alpha
2	Vice Chairperson	Delma Joseph	S7 ECE Alpha
3	General Secretary	Razi Abdul Rahman	S7 AEI
4	University Union Councillor	V. Navneeth Krishnan	S7 EEE
5	University Union Councillor	Mohammed Asif	S5 ME Beta
6	College Magazine Editor	Jeevan John	S7 CSE Alpha
7	Sports Secretary	Johny Joseph	S7 ME Beta
8	Arts Secretary	George Zen Joe	S7 ECE Alpha
9	4 <sup>th</sup> year Representative	Muhammed Ajmal	S7 CSE Beta
10	3 <sup>rd</sup> year Representative	Pradyuth Ramkishore	S5 ME Beta
11	2 <sup>nd</sup> year Representative	Lintu Merin Joly	S3 CSE Beta
12	1 <sup>st</sup> year Representative	Hrithik Byju	S1 IT
13	Lady Representative	Irits Anna Mathew	S7 CSE Alpha
14	Lady Representative	Greeshma Ranjeev	S7 EEE

## IMPORTANT TELEPHONE & EXTENSION NUMBERS

No.	Name	Telephone	Extension
1	Director – Rev. Fr Jose Alex CMI	0484-2429164	200
2	Administrator – Fr. John Therezhathu CMI	0484-2429163	201
3	Principal – Dr. A. Unnikrishnan	0484-2427160	202
4	Vice Principal – Dr. John M. George	0484-2428237	203
5	Chair Professor- Dr Poulouse Jacob		404
6	Reception	0484-2660999	9, 214
7	Office		221 / 223 / 269
	Administrative Officer		205
8	Finance		204/236
9	Library		206/207
10	Placement Cell		
	Biju Paul		334
	Varun Jose		313
11	Dr. Vinod Kumar P.B.		271
12	Fr. Dr. Varghese Panthalookaran CMI		287
13	Fr. Joel George Pullolil CMI		
14	Fr. Dr. Jaison Paul Mulerickal CMI		444/288
15	Fr. Joseph Mathew CMI		249
16	Fr Thomas P J CMI		210
17	Fr Mejo Paul CMI		524
18	Fr Ajeesh Puthussery CMI		290
19	Heads of the Departments		
	DEI – Ms. Liza Annie Joseph		610
	DCE – Prof. K.A. Ouseph		580
	DCS – Ms. Shimmi Ashokan		285
	DEC – Dr. Jobin K. Antony		289

No.	Name	Telephone	Extension
	DEE – Ms. Santhi B.		520
	DIT – Prof. Kuttyamma A.J.		294
	DME – Dr. Thankachan T. Pullan		550
	DSH – Dr. Antony V. Varghese		247
20	Staff Rooms		
	AEI – I		611
	CSE – I		209
	CSE – II		276
	CSE – III		262
	CSE - IV		227
	CE – I		583
	CE- II		584
	ECE – I		256
	ECE – II		260
	ECE – III		270
	ECE- IV		284
	EEE – I		525
	IT-I		251
	IT-II		283
	ME- I		554
	ME- II		559
	ME- III		563
	BSH-I		254
	BSH-II		277
	BSH- III		211
	Common		240
	PG Block		312



No.	Name	Telephone	Extension
21	Labs – AEI		
	Fuerher		344
	Microprocessor		612
	Process Control/Hydraulics		305
	Transducers/Measurements		306
22	Labs – CSE & IT		
	Bohr		273
	Codd		319
	KleinRock		346
	Heisenberg		274
	Photon & Quantum		244
	Turing		345
	Ulysses		265
	Zuse Lab		212
23	Labs- CE		
	GT Lab		324
	SM Lab- MT I		307
	TE Lab		602
	EE Lab		603
	Civil Workshop		
	Survey Lab		
	MT II		
24	Labs- ECE		
	Advanced Resource Center		261
	Basic Electronics		217
	Communication Engineering		238
	Electronics Engineering Workshop		237

No.	Name	Telephone	Extension
	Hardware		
	Integrated Circuits		216
	Logic Design		220
	Microwave/RF		279
	Shannon Lab		347
	Shockley Lab		332
	Systems		281
25	Labs- EEE		540
	Measurement Lab		541
	Machines Lab		543
	Simulation Lab		356
	Drives Lab		546
	Power Electronics Lab		
	Electrical Workshop		
26	Labs- ME		570
	Measurements Lab		571
	CAD/CAM Lab		572
	CNC Lab		573
	Advanced Machines Tools Lab		574
	Mechanical Workshop		575
	Heat Engines Lab		576
	Hydraulics Lab		577
	Fluid Mechanics Lab		578
	Project Fabrication Lab		579
	Mechanical Systems Lab		
27	Labs - DBSH		
	Chemistry		453



No.	Name	Telephone	Extension
	Physics		229
	Language Lab		280
28	Sunya Labs		
	Fr Jaison Mulerickal CMI		444
	HPC Staff Cabin		440
	HPC Lab		441
	Research Centre I		445
	Research Centre II		442
	Conference Hall		443
	Fab Lab		448
29	Internal Quality Assurance Cell		226
	IQAC Conference Room/QWT		408
30	Halls & Auditoriums		
	Chavara Hall		213
	Gallery Hall		304
	Multimedia Hall		293
31	KTU Office ( Main Block)		222
	Pareeksha Bhavan (PG Block)		310
32	Rajagiri Media		232
33	Pro Academy		335
34	Security		
	Security Officer – Mr. M.A. Damodaran	97474 80226	
	Main Gate		250
	Main Block Entrance		258
	P.G. Block		315
	K.E. Block		
35	Lifts		

No.	Name	Telephone	Extension
	Main Block		257
	P.G. Block I		308
	P.G. Block II		309
	K.E. Block		
	Lift I		516
	Lift II		517
	Lift III		518
	Lift IV		519
36	Canteen		224
37	Facility Centre		322
38	Electrical Substation		246
39	Site Office		225
40	Post Office		248
41	South Indian Bank	0484-2771357	242
42	<i>Hostels</i>		
	Assumption Ladies Hostel	0484-2421968	
	Daya Bhavan	0484 2425295	
	Warden – Sanjoe I		234
	Warden – Sanjoe II		235
43	<b>Rajagiri College of Business Studies</b>	0484- 2660555	
	Reception		215
			12+extrn
	Executive Director, Dr. Joseph I. Injodey		621
	Principal, Dr. Binoy Joseph		501
	Sr. Therese		506
	Accounts		632
	Admission		518



No.	Name	Telephone	Extension
	Computer Lab		528
	Exam Cell		611
	Library		527
	Mr. Jolly Joseph		605
44	<b>Rajagiri College of Management &amp; Applied Sciences</b>	0484 - 2427913	231
45	<b>Rajagiri Christu Jayanthi Public School</b>	0484-2427411	
46	<b>Rajagiri Christu Jayanthi Kindergarten</b>	0484-2426460	
47	<b>Hospitals</b>		
	<b>Rajagiri Hospital</b>	0484-6655000	
	Cooperative Hospital, Kakkanad	0484-2423310	
	Sunrise Hospital, Kakkanad	0484-2428913	
	Ernakulam Medical Centre, Palarivattom	0484-2807103	
48	<b>Railway Stations</b>		
	Ernakulam Junction (South)	0484-2375131	
	Ernakulam Town (North)	0484-2390920	
	Tripunithura	0484-2774495	
	Aluva	0484-2630141	
49	<b>K.S.R.T.C. Bus Stands</b>		
	Ernakulam	0484-2372033	
	Aluva	0484-2624242	
50	<b>APJ Abdul Kalam Technological University, Trivandrum</b>	0471-2598122	
		0471 2598422	
		Fax:	
		0471 2598522	

## LIST OF ACTIVITIES 2017-'18

No. EVENT	DATE
1 Deeksharambham	August 1, 2017
2 Orientation programme	August 2-4, 2017
3 Election to Student council	First week of August
4 Swearing in Ceremony and Inauguration of Student Council	First week of August
5 Bharatham (Arts Festival)	August 18 & 19, 2017
6 Onam Celebration	Day on which college closes for Onam vacation
7 Annual Athletic Meet	September 23, 2017
8 Blood donation camp (NSS)	October 2, 2017
9 IEEE day celebrations	October 3, 2017
10 IQAC Audit	● Fourth week of October
11 IAC Audit	● Third week of September (September 23, 2017) ● Third week of November
12 Junior Techkshetra	
13 Christmas Celebration	Day on which college closes for Christmas vacation
14 Alumni Meet	December last week
15 Annual Special Camp (NSS)	First week of January
16 Founder's Day Celebration	January 3
17 Shuchitwa Bodhana Padayatra (NSS)	January 1-15
18 Department Presentations to review the research initiatives	Middle of January

19	Governing Body	Last Saturday of January
20	RSET Voice Hunt	January/February
21	Oil & Gas Conservation fortnight	January/February
22	Mathematics Club Day	First week of February
23	Techkshetra 2018	Third week of February
24	International Women's Day Celebration	March 8
25	DREAMZ (College Day)	3 days prior to the closing day of even semester
26	Farewell to Final Years	Last working day of VIII Semester
27	IQAC Audit	<ul style="list-style-type: none"> <li>● Fourth week of February</li> <li>● Fourth week of April</li> </ul>
28	IAC Audit	<ul style="list-style-type: none"> <li>● Third week of February</li> <li>● Third week of April</li> </ul>
29	Samavarthanam	Last day of final year university examination
30	Annual stock verification of library/labs	May/June
31	Equipment Calibration	May/June
32	Department Presentations to review the research initiatives	Middle of June
33	B. Tech Admission	Third week of June
34	Academic Retreat	Last week of June
35	IQAC Workshop/Seminar	June/July
36	Faculty Induction Programme	First week of July
37	Bridge courses	First/second week of July
38	Placement training for final year students	First/second week of July

39	M.Tech Admission	Middle of July
40	Distinguished Lecture series	Every semester
41	Technical staff development program	Semester Break
42	Open house/PTA meetings	After the exams
43	PTA Executive Committee meetings	Twice in a year
44	Tea with CEOs	Once in 3 months
45	Department Council Meeting	First and third Saturdays of every month
46	Faculty Enrichment Programme	Semester Break (May/June)
47	Saavishkar	First week of July
48		
49		
50		

## SAINT KURIAKOSE ELIAS CHAVARA

St. Kuriakose Elias Chavara was born on 10 February 1805 at Kainakary, Kerala. At the age of five he began his studies in a village school, called kalari. When he was 13, he joined the seminary at Pallipuram for his priestly training. While he was in the seminary, his parents and his eldest brother died of an epidemic. On 29 November 1829, he became a priest.

St. Chavara was instrumental in founding two Catholic Religious Congregations - one for men, Carmelites of Mary Immaculate (CMI), and the other for women, Congregation of Mother of Carmel (CMC), for the spiritual renewal and all round development of the society.

Starting seven ashrams and a convent in different parts of Kerala, St. Chavara initiated a spiritual movement among the people of Kerala. He established the first Catholic Sanskrit School, a major seminary and a printing & publishing house at Mannanam. He directed that every church should start a school attached to it and encouraged children even poorer sections to attend the schools by supplying midday meal and dress for them. He founded a 'Home of Charity' to take of the destitute, the beggars, the uncared sick and the old. He also organized the first voluntary charitable association in Kerala for self-help among the needy.

Even in the midst of such manifold activities, he found time to write several literary and spiritual books in prose as well as verse. Among them, 'Anastasyayude Rakthasakshyam' is the first narrative poem and 'Nalagamangal' the first chronicle of history in Malayalam. He knew seven languages - Malayalam, Tamil, Sanskrit, Syriac, Latin, Italian and Portuguese.

Essentially, however, St. Chavara was a man of prayer and great charity. He lived for 65 years and died on 3<sup>rd</sup> January 1871. His sanctity was officially recognized by the Church, when Pope John Paul II declared him 'Blessed' on 08 February 1986. He was canonized on 23 November 2014 by Pope Francis. St. Chavara is the heavenly patron of all CMI and CMC institutions. Let us pray to him to intercede before God for all our needs, especially for success in our studies.

## IMPORTANT SAYINGS OF SAINT CHAVARA

1. Children, you are God's gift in the hands of your parents
2. The children who have a love of God and fear of God will love and respect their parents
3. Trust your mother, God will hear the prayers of the mother as yours
4. Food is for the body, so is wisdom for the intellect
5. Go to school regularly and recall to mind what is taught during the week
6. Laziness fosters evil habits
7. Let your friends be those who love God
8. The day in which you have not done any good to your fellowmen will not be recorded in your book of life
9. Keeping bad books is like hiding fire in hay.
10. Regular reading of good books and meditating on them will illumine the mind
11. Attain punctuality by means of a regular timetable
12. You angels will be turned to devils, if you fall into evil situation
13. You ought to reach home before evening and take part in the evening prayers
14. Desire that others love you, and not that they fear you
15. Take special care to keep modesty while you sit, walk or lie down
16. You are to forgive and forget the wrongdoings of others
17. Tell me who your friends are, and I will tell who you are
18. What you earn by deceit and theft will melt like snow
19. Idleness is the mother of all vices and would induce one to the habit of drinking
20. Both stinginess and extravagance are equally sinful
21. Had you not lighted the lamp during the day time, you could have lit it during night
22. Do not insult or trouble the poor
23. God decides your vocation and it is you to choose it
24. If your parents have left any obligation of restitution, fulfill it with diligence and devotion
25. Even if you are grown in age and maturity, you have to respect your parents and submit to them
26. Do not hate your own brethren
27. It is the duty of children to look after their parents
28. Do not be the cause for your parents to shed tears on account of you
29. The humble man is the greatest among men
30. Since you belong to God, you have to give yourself back to God

# രാജഗിരി ഗാനം

വിദ്യാതൻ പ്രകാശമായ് സമൃഹസേവനോജ്ജ്വലം  
വിശ്വകർമ്മവേദിയിൽ തിളങ്ങിടും കലാലയം  
ജയിക്ക രാജഗിരി മഹത്വപൂർണ്ണ വിദ്യാക്ഷേത്രമായ്  
നയിക്ക നീതിജ്ഞാനമാർഗ്ഗമാരേയും പ്രബുദ്ധമായ്

മിഥ്യയാകെ നീക്കി സത്യമൊന്നിനായണത്തിടും  
മാനസങ്ങളിൽ തിളങ്ങിനിന്നിടുന്ന സ്വപ്നമായ്  
സമഗ്രമാം വികാസമെന്നുമർത്ഥപൂർണ്ണദർശനം  
സ്വതന്ത്രരാക്കി സ്വാർത്ഥബന്ധനങ്ങളൊക്കെ നീക്കുവാൻ

കാലമാം നശ്ശിനില്ല സീമയെന്നുണർത്തുവാൻ  
കാമ്യമാം മനോജ്ഞലക്ഷ്യമാർഗ്ഗദർശനത്തിനായി  
നിറഞ്ഞ സേവനപ്രഹൃല്ലഭാവമാർന്നു സർവരും  
വളർന്നുജ്ഞാനകന്ദും ദിഗന്തമേ ഉയർത്തുവാൻ

പൂർണ്ണകർമ്മ ചക്രവാളതാരസഞ്ചയങ്ങളായ്  
പൂർത്തിയാക്കിടേണമെന്നും ജ്ഞാനയജ്ഞ ജീവിതം  
വളർന്നിടട്ടെ മാനസങ്ങൾ രാജഗിരിപുക്കളായ്  
വിളങ്ങിടട്ടെ ശ്രേയസ്സിൻ പ്രദീപനാള ജാലമായ്.

**NOTES :**