

SELF STUDY REPORT

CYCLE – I

Submitted to
National Assessment and Accreditation Council
(NAAC)
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi
BANGALORE – 560075

by



CVR COLLEGE OF ENGINEERING

(Autonomous)

(Approved by AICTE, Affiliated to JNT University, Hyderabad)

(Accredited twice by NBA, AICTE)

Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R.Dist. Telangana.

(Updated upto January 2016)

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Letter addressed to the Director, NAAC, Bangalore.



Cherabuddi Education Society's CVR COLLEGE OF ENGINEERING

(Autonomous Institution)

ACCREDITED BY NATIONAL BOARD OF ACCREDITATION, AICTE

(Approved by AICTE & Government of Andhra Pradesh and Affiliated to JNT University)

Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District, PIN - 501 510

Web : <http://cvr.ac.in>, email : principal@cvr.ac.in

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Dr. Nayanathara K Sattiraju

PRINCIPAL

CVR/28/NAAC/2014-15

Dated: 27-2-2015

To
The Director,
National Assessment and Accreditation Council,
P.O. Box No. 1075,
Nagarbhavi,
Bangalore-560 072,
India.

Dear Sir/Madam,

Sub: CVR College of Engineering – Submission of Self Study Report (SSR) for
NAAC Accreditation-LOI Track Id: TSCOGN22845 - Reg.

Ref: Your Letter NAAC/CAPU/Southern Region/TSCOGN22845/Cycle-1/2014
dated 13-10-2014.

While thanking you for communicating the acceptance of the LOI submitted by us, I wish to inform you that we are hosting the entire booklet of SSR in the Website of the College on 27-02-2015.

The College Website ID is : www.cvr.ac.in

As communicated in the letter cited, we will be submitting 5 hard copies and 1 soft copy of Self Study Report (SSR) together with applicable A&A Fee before the scheduled date.

Thanking you,

Yours faithfully,
Nayanathara K S
Principal
PRINCIPAL
CVR College of Engineering
Mangalpalli (V), Ibrahimpatan (M)
B. R. District-501 510.

B. EXECUTIVE SUMMARY

CVR College of Engineering was established by Cherabuddi Education Society in the year 2001. It was the first NRI promoted Engineering College in the Telangana State comprising 300+ Colleges. The Chairman of the College has a B.E. in Computer Science and Engineering from Osmania University, double M.S. from USA in Computer Science and Computer Engineering. He did his Ph.D. in Computer Engineering from USA. He has worked for about 12 years in Intel Corporation at California and also in Microsoft India for about 2 years.

With the zeal to serve the motherland and also to promote best quality technical education, the society has established CVR College of Engineering along with the academic support of NRI highly qualified engineers.

The Governing body has eminent Engineers and Professionals like Prof. C. Madhusudana Reddy, former Head of Business Management, Osmania University & former Emeritus Fellow, AICTE, Prof. Pannalal, former Registrar Osmania University, former Deans of Engineering of O.U, former Rector JNTU, Shri. Rajanna Vice President and Regional Head TCS, Dr. Chokalingam, former VC as UGC nominee. It has JNTU Nominee and State Government Nominee also on the body. The Society started the College in 2001 as a non-profit self-financing institution.

At the starting year, it made a humble beginning with four branches of B.Tech. in CSE, ECE, EEE & IT having a total intake of 220. From then onwards, college has been continuously adding the required quality infrastructure.

Senior Professors of Osmania University, JNTU and Central Sectors like DRDO, DMRL, ECIL, etc. have been invited as Professors in various departments of the College. College has been regularly advertising to recruit faculty with a required number more than the norms of AICTE and JNTU.

By submitting the application to AICTE every year, the College has been getting sanction for new courses in B.Tech, additional intake for existing branches and also many M.Tech programmes.

As of now, the College has B.Tech in seven branches of Engineering and M.Tech in six Specializations. The College has started the Civil and Mechanical Engineering branches during 2011-12 after having 5 circuit branches for a decade.

For the current academic year, 2014-15, the intake for the 1st year is 1200, with branch wise given as below:

S. No	Branch	Intake
1	B.Tech Civil Engineering	120
2	B.Tech Computer Science and Engineering	300
3	B.Tech Electronics & Communication Engineering	240
4	B.Tech Electrical & Electronics Engineering	120
5	B.Tech Electronics & Instrumentation Engineering	60
6	B.Tech Mechanical Engineering	240
7	B.Tech Information Technology	120
	Total	1200

The six M.Tech programmes offered are:

S. No	M.Tech. Branch	Intake
1	VLSI System Design	36
2	Embedded Systems	18
3	Wireless and Mobile Communications	18
4	Computer Science and Engineering	36
5	Electrical Power Engineering	18
6	Structural Engineering – Civil	24
	Total	150

With the existence of senior Professors on rolls and most of the faculty are with M.Tech qualifications supported by high quality infrastructure, College is continuously preferred by parents as the 5th preferred college among about 300 colleges under JNTU Hyderabad. From the inception, all seats are filled in the first phase itself. Even the recently started branches of B.Tech Civil and Mechanical, have all seats filled in the first phase itself with better ranks.

The admission data issued in a booklet for the benefit of students joining B.Tech also reveals the position of college as 5th best among 300 Engineering Colleges under JNTU.

Accreditation:

The quality of instructions, infrastructure and faculty can be accepted by public when the College is accredited by the National bodies. When the College acquired eligibility with the two batches of B.Tech leaving the College, college had applied for accreditation by NBA of AICTE in the year 2006. The accreditation committee visited the College in 2006-07.

Based on the inspection, NBA, AICTE has accorded accreditation for a period of 3 years for the initial four branches, viz., B.Tech CSE, ECE, EEE & IT. The accreditation was valid from September 2007-2010. Immediately after the expiry of accreditation period, the College had submitted for reaccreditation of B.Tech CSE, ECE, EEE, IT & EIE. B.Tech (EIE) became eligible by then.

The inspection took place in 2012. The NBA has accorded reaccreditation of all four branches for a period of 2 years from January 2013 to January 2015 and also accredited for the first time the EIE branch for the same period. Then also, before the closure of accreditation period, college re submitted application for 3rd time accreditation of five B.Tech programmes on 14th Dec'2014. We are expecting the inspection to take place any time.

Permanent Affiliation: As soon as six year period was over after the inception of College, College submitted application to JNTU for permanent affiliation. University has accorded permanent affiliation from 2009 onwards.

Recognition under 2(f) & 12 (B): Based on the application submitted by the College, recommended by University, UGC has accorded recognition of College under the UGC section 2(f) and 12(B) on 19-06-2012.

Autonomous status by JNTU, Hyderabad: The affiliating University, JNTU has a policy of according autonomous status for a period of 3 years. Application was submitted to JNTU in 2010. After inspection by the team headed by Rector, JNTU, the University has accorded Autonomous status for a period of 3 years from the academic year 2011-12 to 2013-14. While issuing the Order, University has advised the College to apply to UGC immediately for according Autonomous status by UGC.

The College had submitted application in 2012 to the University Grants Commission for according Autonomous status. The UGC Committee visited the college in 2013. The College received the Orders of UGC according Autonomous status for a period of six years from the academic year 2014-15 to 2019-20. It is a good coincidence for the College that the autonomous status is continuing from 2011-12 onwards and up to 2019-20. This is really helpful because the functioning of college under Autonomous status will have no break or gap. The regulations and curriculum are conveniently continued with periodical review.

Constitution of Statutory Boards: With the autonomous status accorded by JNTU in 2011-12, and advice of the University to function constituting the statutory Boards, the College has constituted the Governing Body, Academic Council, Finance Committee & Board of Studies from the faculties of Civil, CSE, ECE, EEE, EIE, Mechanical Engg, IT, English, Physics, Chemistry, Mathematics, Management Science and Environmental Science. For all these boards, the University has nominated its nominees as per norms of UGC. Following the Guidelines of UGC, college has established all the boards and these statutory Boards started functioning from 2011-12 onwards.

Meeting of the Statutory Boards and Major Decisions: Till the academic year 2011-12, the college was functioning as an affiliated college. With the opportunity of autonomous status, the following major decisions have been taken:

- i. Introducing semester pattern from I year also. It was yearly pattern for I year under the affiliated system.
- ii. Increasing laboratory and drawing content in the course structure.
- iii. Introducing inter disciplinary Electives.
- iv. To improve job opportunities, the following soft skill and communication skills have been included in the curriculum as compulsory courses.
 - a) English Language and Communications Lab
 - b) Advanced Communication & Soft Skill Lab
 - c) Verbal ability Lab
 - d) Reasoning & Logic Lab
 - e) Data Interpretation Lab
 - f) Quantitative Ability Lab
- v. Evaluation: We believe in the concept “Communication is not only the essence of being human but also a vital property of life” according to A. Piece.
 With the academic autonomy available to College, the examination system and evaluation has been made to be more rigorous in nature.
 All the above courses are compulsory.
 Industry sponsored Electives also have been added. To make B.Tech study more comprehensive, the following project oriented courses are also introduced as compulsory subjects.
 - a) Industry oriented mini project
 - b) Seminar
 - c) Major project
 - d) Comprehensive viva

To illustrate, as an affiliated College, student had to write two mid term exams in a semester and best one is taken. This has led to not fulfilling the concept of continuous learning and evaluation.

The College has then incorporated three mid examinations in each subject per semester and best two were considered. From 2015-16 onwards the regulations are proposed to modify as two mid examinations and both to be considered. Further two assignments, two quizzes are compulsory to score marks. To make regularity of attendance, internal marks have a component from attendance.

With the first batch of Autonomous students completing in 2014-15, college has already taken steps for thorough review of curriculum applicable from 2015-16 onwards. Boards will meet shortly for that purpose.

Placements: The Training and Placement cell of the college is very active. About 40+ Companies visit the College to conduct campus placements. In 2015-16, TCS alone has selected 201 candidates. Almost 80% eligible students get selected in campus jobs.

As the college is located near a mega city like Hyderabad, there is very good awareness on the part of students and parents to go abroad for higher studies. College has a history of having about 125 to 130 students going abroad for higher studies every year.

To see that the students excel in campus selections, GRE, TOEFL, & GATE, lot of pre-placement talks, Campus Connect CRT programmes, training in soft skills for 2 to 3 weeks duration are frequently arranged from 3rd year itself to ensure that maximum number of students are benefited.

For the year 2009-10 College received award from the Hon'ble Chief Minister of Andhra Pradesh as “The College of maximum placements” in the State, through JKC, a Government sponsored Placement unit.

Research: College has been giving top priority for quality of teachers and acquiring higher qualification. To see that many faculty obtain M.Tech qualification during initial days of 2003-04 period, an incentive Rs. 10,000 per year for 3 years and liberal sanction of leave for doing part time M.Tech was sanctioned. Now the college has all teachers with minimum M.Tech qualification. To see that faculty do Ph.D incentive is available to have 6-7 months of paid leave

with salary and twice during Ph.D. work. Further an amount of Rs. 25,000 each is sanctioned thrice at different stages. This has helped many faculty to register with Universities like JNTU, OU, University of Hyderabad & other JNTU universities. As of now, 14 staff members have obtained Ph.D, 35 members are at different stages of Ph.D. Totally out of 328 faculty members, 39 are Ph.D. holders, 35 are at different stages and all remaining are M.Tech. There are mere four staff members who will have completed M.Tech shortly. Software available is latest and world best like Cadence VLSI Tools, Microsoft Dreamspark Premium, Oracle Academic Initiative, etc,

Research Publications: College is known for awarding many incentives to encourage research. There is a Research Committee headed by Dean, Research. For every publication in reputed journals, Conferences, College awards incentive of Rs.10,000 – Rs.20,000 based on recommendation of Research Committee.

College sponsors to attend technical conferences paying TA & DA with a registration fee of Rs. 3000.

College has a research journal published bi-annually with ISSN number 2277-3916 with 7 volumes already published. Many faculty members publish technical papers in National, International journals and conferences.

Faculty Development Programmes: College encourages departments to organize faculty development programmes from the institutional funds.

Similarly faculty are encouraged to attend programmes organized by other colleges.

Faculty members writing a text book is rewarded with Rs. 20,000.

College has MOU with many National and International organizations like Virtusa, Mitsubishi, Global Edge, CADENCE, IIIT etc., for better teaching-learning practices.

Research Funds:

1. During 2004-07 period DRDO Delhi sanctioned a research project in Material Science sanctioning Rs. 18.7 lakhs. The project was successfully completed.
2. College organized two national conferences supported by AICTE, DRDO and BRNS, Mumbai.
3. College organized three Faculty Development Programmes all sanctioned by AICTE.
4. Entrepreneurship Development Cell and Industry Institute Interaction Cell are functioning. AICTE is supporting them with Rs. 4.5 lakhs and Rs. 12 lakhs respectively.
5. There are MODROB projects of AICTE.

Consultancy Project: DRDO, Hyderabad has sanctioned three Research and Consultancy projects worth Rs. 28 lakhs and all the three have been successfully completed recently.

6. College has created a RFID cell with institutional funding of Rs. **18.5 lakhs**. Management is liberal to support any research projects.
7. A Project in UAV with Prof. Subramanyam as the Coordinator of the Project. College has released Rs. **6.8** lakhs for the Project.

Students Activities: CVR students are popular in exhibiting their innovative talent. Many students publish technical papers in the conferences organized by National Institutions like IITs, NIT and also other institutions. College sponsors the students sanctioning travel grant and registration.

There are cases of students publishing in technical conferences held abroad. In such cases, partial grant (50%) is provided by college.

College encourages students to organize every year a two day National technical meet called CIENCIA. For this about 600-700 students take part in various technical events of innovative nature. It is completely organized by students of the college in March of every year. Full financial support is provided by the College.

Societal Commitments: Staff and students of college take part in various societal commitments through NSS . College has NSS unit sanctioned by University. NSS camps are organized at nearby villages on Health awareness, Environmental cleanliness, HIV eradication, 5K Run etc. College is known for maximum blood donation by staff and students by organizing camp every year. College received a special award from Hon'ble Governor of Telangana for maximum blood donors from college. Some of these activities will bring integrity and ethics to students. We all remember the quotation of Samuel Johnson "Integrity without knowledge is weak and useless and knowledge without integrity is dangerous and dreadful"

Donations: When Computer labs were upgraded the existing computers of about 200 were donated to nearby Government schools. Students have gone to schools and given training to school teachers to use and maintain records and data. This is done by students continuously on weekends. Backup UPS is also supplied along with the PCs due to extreme power cuts in the rural areas.

Old clothes distribution to the need of neighbouring villages.

Campus features: The College has a Solar power plant generating 120 KW energy with panels on the roof top of one of the Main building. The power is connected to grid also. The plant is under expansion mode to 360KW to other buildings to save at least 66-75% grid power. This has been completed recently.

Landscape development is completely by sprinkles using recirculation to reuse waste water with sewage treatment plant.

Lot of special plants are grown with concepts of clean and green for the campus.

Amenities: Indoor and outdoor games are available to meet the needs. A special cafeteria occupying two floors of Student Centre is for students and staff.

One complete floor for placement activity having 14 interviewing cubicles, group discussion cubicles, conference and dining facility with spacious placement office is a special feature which many companies appreciate.

Management concept is to give best to students for their welfare. This is the only College the society has. College believes in the concept "An Investment in knowledge always pays the best interest" Benjamin Franklin.

C. PROFILE OF THE INSTITUTION

1. Name and Address of the College:

Name :	CVR College of Engineering
Address :	Vastunagar, Mangalpally (V), Ibrahimpatan (M), R.R. Dist.
City :	Pin : 501 510 State: Telangana
Website :	www.cvr.ac.in

2. For communication :

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. K.S. Nayanathara	8414252369	9502335871	8414252396	principal@cvr.ac.in
Vice Principal	Prof. L.C. Siva Reddy	8414252550	9885806151	8414252396	sivareddy.lakkam@gmail.com
Steering Committee Coordinator	Prof. Wg. Cmdr. Varghese Thattil	8414252344	9848565563	8414252396	mailthattil@gmail.com

3. Status of the Autonomous College by Management.

I	Government	
II	Private	✓
III	Constituent College of the University	

4. Name of University to which the College is Affiliated JNT University, Hyderabad

5. a. Date of establishment, prior to the grant of 'Autonomy' (06/08/2001)

b. Date of grant of "Autonomy" to the College by UGC: (20/01/2014)

6. Type of Institution:

a. By Gender

- i. For Men
- ii. For Women
- iii. Co-education

✓

b. By Shift

- i. Regular
- ii. Day
- iii. Evening

✓

c. Source of funding

i.	Government	☐
i.	Grant-in-aid	☐
ii.	Self-financing	☐
iii.	Any other (Please specify)	☒

7. **It is a recognized minority institution?**

Yes ☐

No ☒

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

Not Applicable

8. a. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	19-06-2012	Order No: F.No.8-582/2011 (CPP-I/C)
ii. 12 (B)	19-06-2012	Order No: F.No.8-582/2011 (CPP-I/C)

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act): **Enclosure B1**

b. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/clause	Day, Month and Year (dd-mm-yyyy)	Validity	Programme/ Institution	Remarks
F. No. South-Central/1-2454861253/2015/EO A	7/4/2015	One Year	Institution	Yearly approval / sanction by AICTE, New Delhi
ii.				
iii.				

(Enclose the Certificate of recognition/approval) : **Enclosure B2**

9. Has the college recognized

a. By UGC as a College with Potential for Excellence (CPE)?

Yes ☐ No ☒

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

b. For its contributions / performance by any other governmental agency?

Yes ☒ No ☐

If yes, Name of the agency: **All India Council for Technical Education &**

National Board of Accreditation

Accredited by NBA for 3 years during 2007-10 for branches of B.Tech. EEE, ECE, CSE & IT.

Reaccredited by NBA for branches of B.Tech. EEE, ECE, CSE & IT and first time accreditation for EIE as it became eligible in 2011 only, for a period of 2 years, from January 2013-15

10. Location of the campus and area :

Location *	Rural
Campus area in sq. mts. or acres	27.24 acres+12.5 acres
Built up area in sq. mts.	47623 sq. mts.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex: ☒ Yes

- Sports facilities

Play ground	☒
Swimming pool	☐
Gymnasium	☒

- Hostel

Boys' hostels	☒
Girls' hostels	☐

- Residential facilities

for teaching staff	No
for non teaching staff	No

- Cafeteria : Yes : Two floors of student support block
Cafeteria area of 2000 sqm.

- Health centre –

First aid facility	☒
Inpatient facility	☐
Outpatient facility	☒
Ambulance facility	☒
Emergency care facility	☒

Health centre staff –

- * Qualified Doctor Full Time
- * Qualified Nurse Full time

- * Other facilities

Bank	☐
ATM	☒
Post office	☐
Book shops	☒

Transport facilities

for students	☒
for staff	☒

- Power house:
- Waste management facility :

12. Details of programmes offered by the institution for the academic year 2015-16.

S.No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned /Approved student intake	No. of students admitted
1.	UG: (B.Tech.)	Civil Engg.	4 Years	10 + 2 & Rank in EAMCET	English	120	120
2.	UG: (B.Tech.)	CSE	4 Years	-Do-	English	300	300
3.	UG: (B.Tech.)	ECE	4 Years	-Do-	English	240	240
4.	UG: (B.Tech.)	EEE	4 Years	-Do-	English	120	120
5.	UG: (B.Tech.)	EIE	4 Years	-Do-	English	60	60
6.	UG: (B.Tech.)	IT	4 Years	-Do-	English	120	120
7.	UG: (B.Tech.)	Mechanical	4 Years	-Do-	English	240	240
Total						1200	1200
1.	PG: (M.Tech.)	Civil Engg. Structures	2 Years	B.Tech. & Rank in GATE / PGECET	English	24	16
2.	PG: (M.Tech.)	CSE	2 Years	-Do-	English	36	21
3.	PG: (M.Tech.)	VLSI	2 Years	-Do-	English	36	25
4.	PG: (M.Tech.)	ES	2 Years	-Do-	English	18	16
5.	PG: (M.Tech.)	WMC	2 Years	-Do-	English	18	10
6.	PG: (M.Tech.)	EPE	2 Years	-Do-	English	18	9
Total						150	97

13. Does the institution offer self-financed Programmes?

Yes ☐ No ☒

If yes, how many?

14. Whether new programmes have been introduced during the last five years?

Yes	✓	No	

If yes

Number	5

15. List the departments: (Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)

Particulars		Number	Number of Students
Science	Under Graduate Post Graduate Research Centre(s)	NA	NA
Arts	Under Graduate Post Graduate Research Centre(s)	NA	NA
Commerce	Under Graduate Post Graduate Research Centre(s)	NA	NA
Any other	Under Graduate: B.Tech. H&S Supporting Dept. Post Graduate: M.Tech. Research Centre(s)	7 1 6 -	B.Tech: 4260 for four years (Civil-120, CSE-300,ECE-240,EEE-120,EIE-60,IT-120 & Mech-240) M.Tech: 300 for two years sanctioned intake (SE-24,WMC-18,ES-18,VLSI-36,CSE-36,EPE-18)

16. Are there any UG / PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details: No

17. Number of Programmes offered under (Programme means a degree course like BA, MA,

B.Sc., M.Sc., B.Com etc.): 7 B.Tech. & 6 M.Tech. programmes

a.	Annual system	
b.	Semester system	✓
c.	Trimester system	

18. Number of Programmes with

a.	Choice Based Credit System	Introduced in the Academic year 2015-16 for all 7 B.Tech and 6 M.Tech Programmes
b.	Inter/Multidisciplinary Approach	

c. Complete semester pattern from I year to final year as per approved course structure, each subject having prescribed credits.	Senior batches B.Tech 2 nd , 3 rd and 4 th years and M.Tech 2 nd years are in semester pattern in the current academic year

19. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs. 59,843

(b) excluding the salary component

Rs. 26,407

20. Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?

Yes		No	✓

If yes,

a. How many years of standing does the department have?

..... years

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

.....

Date: (dd/mm/yyyy)

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

Yes		No	

21. Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?

Yes		No	✓

If yes,

a. How many years of standing does the department have?

..... years

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

.....

Date: (dd/mm/yyyy)

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

Yes		No	

22. Whether the College is offering professional programme?

Yes	✓	No	

If yes, please enclose approval / recognition details issued by the statutory body governing the programme: AICTE approves all B.Tech. & M.Tech. programmes on yearly basis:
Enclosure B3

23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon: AICTE, NBA, JNTU Affiliating University (copies enclosed in B4)

24. Number of teaching and non-teaching positions in the College

Positions	Teaching Faculty						Non-Teaching Staff		Technical Staff	
	Professor		Associate Professor		Assistant Professor					
	M	F	M	F	M	F	M	F	M	F
Sanctioned by the UGC/University/ State Government Recruited Yet to recruit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sanctioned by the Management / Society or other authorized bodies as per norms of AICTE & JNTU Recruited.	32	3	41	18	133	101	18	62	24	36
Total	328						80		60	
Yet to recruit	-	-	-	-	-	-	-	-	-	-

25. Qualifications of the teaching staff

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	25	3	5	2	3	1	39
M. Phil.	-	-	3	3	2	3	11
PG (M.Tech./ M.Sc./M.A.)	7	0	34	13	127	97	278
Total							328
As per norms of AICTE, 309 are required							
Temporary Teachers: Nil							
D.Sc./D.Litt.	NA	NA	NA	NA	NA	NA	NA
Ph.D.	NA	NA	NA	NA	NA	NA	NA
M. Phil.	NA	NA	NA	NA	NA	NA	NA
PG	NA	NA	NA	NA	NA	NA	NA

Part-Time Teachers: Nil							
D.Sc./D.Litt.	NA	NA	NA	NA	NA	NA	NA
Ph.D.	NA	NA	NA	NA	NA	NA	NA
M.Phil.	NA	NA	NA	NA	NA	NA	NA
PG	NA	NA	NA	NA	NA	NA	NA

26. Number of Visiting Faculty/ Guest Faculty engaged by the College: **Nil (Emeritus professors 5)**

27. **Students enrolled in the College during the current academic year, with the following details:**

Students	UG B.Tech.		PG		Integrated Masters		M.Phil.		Ph.D.		Integrated Ph.D.		D.Lit./ D.Sc.		Certificates		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the State where the College is located	823	363	31	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
From other States of India	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRI Students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Foreign Students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	833	366	31	56																

28. **Dropout rate in UG and PG (average for the last two batches)**

UG

0.3 %

PG

1.4 %

29. **Number of working days during the last academic year.**

190

30. **Number of teaching days during the last academic year**

190

31. **Is the College registered as a study centre for offering distance education programmes for any University?**

No

✓

If yes, provide the

a. Name of the University : Not Applicable

b. Is it recognized by the Distance Education Council?

Yes ☐ No ☐

c. Indicate the number of programmes offered.

32. Provide Teacher-student ratio for each of the programme/course offered

B. Tech. 1:15

M.Tech. 1:12

33. Is the College applying for?

Accreditation : Cycle 1 ☒ Cycle 2 ☐ Cycle 3 ☐ Cycle 4 ☐

Re-Assessment: ☐

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

Cycle 1: (dd/mm/yyyy) Accreditation outcome/results Cycle 2:
..... (dd/mm/yyyy) Accreditation outcome/results Cycle 3:
..... (dd/mm/yyyy) Accreditation outcome/results * kindly enclose copy
of accreditation certificate(s) and peer team report(s)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC): 10-07-2014

b. Dates of submission of Annual Quality Assurance Reports (AQARs): N/A

(i) AQAR for year on(dd/mm/yyyy)

(ii) AQAR for year on(dd/mm/yyyy)

(iii) AQAR for year on(dd/mm/yyyy)

(iv) AQAR for year on..... (dd/mm/yyyy)

36. Any other relevant data, the College would like to include. (Not exceeding one page)

The College offers the following incentives for skill-upgrade, and professional advancement:

A. Incentives for Service Security

- Contributory Provident Fund for Faculty.
- Employee Provident Fund for Non-teaching Staff.
- Group Insurance Scheme.
- Interest free loans. So far, 56 employees are availing loan with outstanding amount of Rs. 20 lakhs.
- For Non-Teaching & Technical staff with salary below Rs. 15,000/-, Medical reimbursement of Rs. 5,000/- per anum is allowed.
- Crèche for infants and toddlers.
- Maternity leaves are provided to the lady faculty.
- Medical leaves are provided to the staff.

B. Incentives for skill up gradation and Professional advancement.

- Higher start for higher qualifications.
- 2006 Revised Pay Scales implemented from 1st July 2011.
- Incentive of Rs. 20,000/- for each textbook published by standard publisher.
- Incentive for improvement of qualification. Yearly financial grant of Rs.10,000/- for doing M.Tech. while in service on part-time basis for each of the 3 years period.
- Incentives for presentation of paper in Conferences/Seminars – Rs. 10,000/- is given to staff for a paper presented in Conferences / Seminars.
- The payment of Rs. 20,000/- for an article/paper published in a standard research journal.
- A staff member doing Ph.D. is given a total incentive amount of Rs. 75,000/- in three phases. In addition he/she is given study leave with full pay for period ranging of 7.5 months. This will be granted twice during Ph.D. work.
- Travel Grant for presentations in the Conferences.
- International Travel Grant.

C. Incentives to Students.

- Book Grant for Weaker Sections.
- Management supported Library for SC/ST Scholarship holders.
- Campus Recruitment coaching classes for the students with the help of Experts.
- Merit Awards by the College. Cash and Gold Medals to students.
- Registration fee and Travel Grant for students presenting Technical papers.
- Part financial support for students submitting technical papers in foreign countries.

The College received the following special awards:



College received IEG/JKC outstanding college award for the year 2009-10. The Hon'ble Chief Minister of Andhra Pradesh has presented the award to our Chairman Dr. Raghva V Cherabuddi for securing maximum number of placements during the year 2009-10.



Dr. A.D. Rajkumar, Dean-Academics receiving the shield from His Excellency Shri E.S.L. Narasimhan, Governor of the State for recognition of our Voluntary Blood Donation Camps for the past 10 years.



Mr. Harsh H. Shah receiving Gold Medals from the Chancellor and the Governor of Andhra Pradesh.

Best outgoing student of CSE among graduates of all JNTUH affiliated colleges with an aggregate of 86.90%.

Endowment Gold Medal for best outgoing student with highest marks in Mathematics in constituent and affiliated colleges.

Endowment Gold Medal for obtaining **FIRST** rank in B.Tech among graduates of all affiliated colleges of the JNTUH from the branch of CSE.

Enclosure C1

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. No. 8-582/2011 (CPP-I/C)

June, 2012

The Registrar,
Jawaharlal Nehru Technological University,
Hyderabad, Kukatpally,
Hyderabad – 500 085, (A.P.)

19 JUN 2012

Sub: Recognition of College under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter No. 340/CVR/Apl for 2(f) and 12(B)/06/11-12 dated 21-03-2012 received from the Principal, **CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District – 501 510, (A.P.)** on the above subject and to say that it is noted that the following college is **un-aided/self financed** and **permanently** affiliated to **Jawaharlal Nehru Technological University**. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head '**Non-Government, self financed** Colleges teaching upto **Master's Degree**' to make it eligible to receive Central assistance from sources other than UGC:-

Name of the College	Year of Establishment	Remarks
CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District – 501 510, (A.P.)	2001	As the College is charging fee as per University norms and a certificate in this regard has been received in UGC. The College would also be eligible to get grant for all UGC schemes related to teachers and students only as per the decision of the Commission dated 8 th July 2011.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(M.K. Rewari)
Under Secretary

Copy to:-

1. The Principal, CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District – 501 510, (A.P.)
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Secretary (Higher Education), Government of Andhra Pradesh, Secretariat Building, J-Block, 4th Floor, Hyderabad – 500 022, (Andhra Pradesh).
4. The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Andhra Pradesh).
5. Publication Officer (UGC-Website), New Delhi.
6. Section Officer (FD-III Section), UGC, New Delhi.
7. Guard file.


(Sunita Gulati)
Section Officer

Enclosure C2 & C3

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-Central/1-2018933425/2014/EOA/Corrigendum-1

Date: 19-Jan-2015

Corrigendum

To,
The Principal Secretary
(Higher Education) Govt. of Andhra Pradesh,
J Block, 4th Floor, Secretariat Building,
Hyderabad-500022

Sub: Extension of approval for the academic year 2014-15.

Ref: Application of the Institution for Extension of Approval for the Year 2014-15

EOA Issued on	F.No. South-Central/1-2018933425/2014/EOA	04-Jun-2014
EOA Printed on	F.No. South-Central/1-2018933425/2014/EOA	09-Jan-2015
Corrigendum 1	F.No. South-Central/1-2018933425/2014/EOA/Corrigendum	19-Jan-2015

Sir/Madam,

In partial modification of the letter F.No. South-Central/1-2018933425/2014/EOA and in terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-Central	Application Id	1-2018933425		
		Permanent Id	1-2013187		
Name of the Institute	CVR COLLEGE OF ENGINEERING	Institute Address	VASTUNAGAR MANGALPALLI (V), IBRAHIMPATAN IBRAHIMPATAN (M) RANGA REDDY DIST, ANDHRA PRADESH 501 510,IBRAHIMPATAN,RANGAREDDI,Andhra Pradesh,501510		
Name of the Society/Trust	CHERABUDDI EDUCATION SOCIETY	Society/Trust Address	H.NO.2-2-1105/9/2 TILAK NAGAR, HYDERABAD, HYDERABAD, HYDERABAD, Andhra Pradesh,500044		
Institute Type	Unaided - Private				

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

Application Number: 1-2018933425*

Page 1 of 5

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2015.

Letter Printed On: 23 January

Printed By : ae853051



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

to conduct following courses with the intake indicated below for the academic year 2014-15

Application Id: 1-2018933425			Course		Affiliating Body	Intake 2012-13	Intake 2013-14	Intake Approved for 2014-15	NRI	PIO
Program	Shift	Level		Full/Part Time						
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Hyderabad	0	0	24	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	240	240	240	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	180	240	300	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	120	120	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	60	60	60	NA	NA

Application Number: 1-2018933425*

Page 2 of 5

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2018933425			Course		Affiliating Body					
Program	Shift	Level		Full/Part Time		Intake 2012-13	Intake 2013-14	Intake Approved for 2014-15	NRI	PIO
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI SYSTEM DESIGN	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	36	36	36	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	EMBEDDED SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	18	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	36	36	36	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ELECTRICAL POWER ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	18	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	120	120	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	60	120	240	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	60	120	120	NA	NA

Application Number: 1-2018933425*

Page 3 of 5

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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

Application Id: 1-2018933425			Course		Affiliating Body					
Program	Shift	Level		Full/Part Time		Intake 2012-13	Intake 2013-14	Intake Approved for 2014-15	NRI	PIO
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	WIRELESS AND MOBILE COMMUNICATIONS	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	18	NA	NA

- Validity of the course details may be verified at www.aicte-india.org/departments/approvals

The above mentioned approval is subject to the condition that CVR COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. Kuncheria P. Isaac)
Member Secretary, AICTE

Copy to:

1. The Regional Officer,
All India Council for Technical Education
First Floor, old BICARD Building
Jawaharlal Nehru Technological University
Masab Tank, Hyderabad-500076
2. The Director Of Technical Education,
Andhra Pradesh

Application Number: 1-2018933425*

Page 4 of 5

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Letter Printed On: 23 January

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All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

3. The Principal / Director,
CVR COLLEGE OF ENGINEERING
VASTUNAGAR
MANGALPALLI (V), IBRAHIMPATAN
IBRAHIMPATAN (M)
RANGA REDDY DIST,
ANDHRA PRADESH
501 510,
IBRAHIMPATAN,RANGAREDDI,
Andhra Pradesh,501510
4. The Secretary / Chairman,
CHERABUDDI EDUCATION SOCIETY
H.NO.2-2-1105/9/2 TILAK NAGAR, HYDERABAD,
HYDERABAD,HYDERABAD,
Andhra Pradesh,500044
5. Guard File(AICTE)



Application Number: 1-2018933425*

Page 5 of 5

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2015.

Letter Printed On:23 January

Printed By : ae853051

Enclosure C4-1

प्रो. प्रसाद कृष्णा
सलाहकार-1
Prof. Prasad Krishna
ADVISER-1 (Quality Assurance)

अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

राष्ट्रीय प्रत्यायन मंडल (रा.प्र.म.)
NATIONAL BOARD OF ACCREDITATION (NBA)
(Constituted Under Clause 10(u) of AICTE act. 1987)

F.No. NBA/ACCR-894/2007

September 12, 2007

To

The Principal
CVR College of Engineering,
Vastunagar, Mangalpally (V),
Ibrahimpattam (Mandal),
R.R. (District),
Andhra Pradesh – 501510

Sub : Accreditation Status of Programme(s) offered by your Institution.

Dear Sir / Madam:

With reference to your application for accreditation of the following programme(s) and the Expert Committee visit to your institution, the report of the visit team was considered by the various Sectoral Committees and subsequently by the National board of Accreditation in its meeting held on 12.09.2007. Based on the recommendations of the Board, I am pleased to communicate the Accreditation Status of the following programme(s) from your institution.

Sl. No.	Name of Programme(s)	Level	Accreditation Status	Period of validity w.e.f. 12.09.2007
1.	Computer Science & Engineering	UG	Accredited	3 years
2.	Electrical & Electronics Engineering	UG	Accredited	3 years
3.	Electronics & Communication Engg.	UG	Accredited	3 years
4.	Information Technology	UG	Accredited	3 years

(Total number of programmes **Accredited** vide this letter – Four)

The Accreditation status awarded to the above programmes of your institution does not imply accreditation to the College/Institution as a whole. Complete name of the Programme(s) Accredited and its period of validity, as well as the date from which the award is effective, should be quoted unambiguously whenever and wherever it is used. The accreditation status of the above programmes is subject to periodic review by the NBA Secretariat and will be changed if major deficiencies are identified on surveillance. You are also requested to comply with the mandatory disclosure of pertinent information as per the proforma available in the AICTE website with respect to accredited programmes of your institution. The same information should also appear in the website and information bulletin of your institution clearly indicating the date of publication of the same.

Contd.....2

The status awarded to the above programmes of your college / institution is on the presumption that the programmes would maintain the current standards in future. If there are any changes that would effectively alter the status (such as, major changes in faculty strength or changes in the organizational structure, etc.), the same shall be communicated to the undersigned, with an appropriate explanatory note. A comprehensive report submitted by the Chairman of the Expert Committee who visited your institution and the distribution of marks/points awarded for each programme against the accreditation parameters are enclosed for further necessary action at your end to overcome the shortcomings observed for each programme. If you are not satisfied with the decision of the Board, you may forward your appeal application with requisite fee within thirty days of receipt of this communication.

Let me also take this opportunity to congratulate all those who have contributed to the quality enhancement of programmes that secured accreditation by NBA. Should you have any clarification, please do not hesitate to contact the undersigned.

With best regards,

Yours Truly,



(Prasad Krishna)

C.C.:

1. The Vice-Chancellor,
Jawaharlal Nehru Technological University (JNTU),
Hyderabad, AP
2. The Secretary,
Deptt. Of Technical Education,
Govt. of Andhra Pradesh,
BRKB Bhawan,
Hyderabad – 500 063 (AP)
3. The Regional Officer,
All India Council for Technical Education
Southern Regional Office,
26, Haddows Road, Shastri Bhawan,
Chennai – 660 006
4. Accreditation File
5. Guard File.



(Prasad Krishna)

Enclosure C4-2**NATIONAL BOARD OF ACCREDITATION**

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



File No. 11-40/2010/NBA

January 29, 2013

To

The Principal
CVR College of Engineering
Vastunagar, Mangalpalli (V),
Ibrahimpatan (M), R.R. District – 501510
Andhra Pradesh
Ph. No. 08414 – 252222/252369

Sub: Accreditation status of programmes applied by CVR College of Engineering, R.R. District, A. P.

Dear Sir/Madam,

This is with reference to application dated 21-05-2011 from CVR College of Engineering, R.R. District, A. P. seeking NBA accreditation to various Programmes.

2. An Expert Committee conducted an on-site evaluation of the programmes on 13th – 15th July, 2012. The report submitted by the Expert Committee was considered by the Engineering Accreditation Evaluation Committee (EAEC) at its meeting held on 06-10-2012. The Executive Committee of the National Board of Accreditation considered the recommendations of EAEC at its meeting held on 04th January, 2013. The Executive Committee approved the accreditation status of each programme of the Institute as given in the table below.

Sl. No.	Name of the Programmes	Accreditation Status	Period of validity w.e.f. 04-01-2013	Remarks
(1)	(2)	(3)	(4)	(5)
1.	B. Tech. Computer Science & Engineering	Provisionally Accredited	2 Years	Accreditation Status granted is valid till the programme has the approval of AICTE or the period given in Col. '4', whichever is earlier.
2.	B. Tech. Electronics & Communication Engineering	Provisionally Accredited	2 Years	
3.	B. Tech. Electrical & Electronics Engineering	Provisionally Accredited	2 Years	
4.	B. Tech. Information Technology	Provisionally Accredited	2 Years	
5.	B. Tech. Electronics & Instrumentation Engineering	Provisionally Accredited	2 Years	

3. Accreditation granted is provisional for 2 years. The Institution may apply after overcoming the weaknesses to upgrade their status to 'Full Accreditation' of the programmes.

4. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to CVR College of Engineering, R.R. District, A. P. as a whole. As such the Institution should nowhere along with its name including on its letter head etc., write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. The complete name of the programme(s) accredited, level of programmes (UG or PG as the case may be) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

Contd./.

-2-

5. The accreditation status of the above programmes is subject to change on periodic review, if needed, by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the Table in paragraph 2 above, appears on the website and information bulletin of your Institution.

6. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

7. Copies of the Comprehensive Report submitted by the Chairman of the Expert Committee alongwith the detailed reports submitted by the Expert team for the programme (s) evaluated which visited your Institution are enclosed for reference and to take necessary action to improve upon the shortcomings, if any, pointed out by the Expert Team.

8. If the Institution is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

D.K. Paliwal

(Dr. D.K. Paliwal)
Member Secretary

- Encls: 1. Copy of Report of Chairman of the Visiting Team
2. Copies of Expert Report of the Visiting Team.

Copy to:

1. The Vice Chancellor, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad- 500085, Andhra Pradesh.
2. The Principal Secretary (Higher Education) Government of Andhra Pradesh, J Block, 4th Floor, Secretariat Building, Hyderabad-500022.
3. The Director of Technical Education, Dept. of Technical Education, Govt. of Andhra Pradesh, Vth Floor, BRK Complex, Tarbund Road, Hyderabad-500063, A.P.
4. Member Secretary, AICTE, Chanderlok Building, Janpath, New Delhi-110001
5. Accreditation File
6. Master Accreditation Folder of the State.

Enclosure C4-3

Grans: "TECHNOLOGY"
E Mail: pa2registrar@jntuh.ac.in



Phone: Off: +91-40-32422253
Res: +91-40-32517275
Fax: +91-40-23158665

PROCEEDINGS OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Andhra Pradesh Ordinance No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

Procds. No.AAC/Autonomous Status/CVRCE-B8/2011.

Date: 08/08/2011

Sub: JNT University, Hyderabad – Academic Audit Cell – Grant of Autonomous Status to "CVR College of Engineering, Mangalpalli, Ibrahimpatnam, Ranga Reddy Dist" from the academic year 2011-12 to 2013-14 - Orders Issued.

Read: 1.Letter No: 340/JNTU/Per Aff/2010-11/01, dated: 10-12-2010 received from the Principal, CVR College of Engg, Mangalpalli, Ibrahimpatnam, Ranga Reddy Dist.
2. Univ.Procnds No: AAC/Affi/Inspection-Autonomous Status/2011-12, dated: 07-07-2011.
3. FFC Report dated: 12-07-2011.
4. University Order No: JNTUH/63/2010, dated: 24-07-2010 for Guidelines and eligibility criteria for grant of Autonomous Status.

ORDER:

1. The Director, "CVR College of Engineering, Mangalpalli, Ibrahimpatnam, Ranga Reddy Dist" has submitted an application for grant of Autonomous Status by JNTUH from the Academic Year 2011-12 vide (1) read above. The University has constituted a Fact Finding Committee to examine the proposal for considering the grant of Autonomous Status of the College vide (2) read above. The Fact Finding Committee has visited the college and submitted its report to the University vide (3) read above. Based on the visit and feed back from the faculty, non-teaching staff & students, the Fact Finding Committee has made recommendations for grant of Autonomous Status for the college with effect from the Academic Year 2011-12 for a period of three years.
2. The UGC guidelines for conferment of Autonomous Status to the University Affiliated Colleges will be applicable with no financial commitment of the University. If at any stage, the Institution is not able to operate the academic autonomy due to unforeseen problems, it will be reverted back to the Affiliating parent University, JNTUH and henceforth the academic rules and regulations of the Affiliating University will come in force.
3. Under the circumstances as stated above, the Vice-Chancellor is pleased to Grant Autonomous Status to "CVR College of Engineering, Mangalpalli, Ibrahimpatnam, Ranga Reddy Dist" sponsored by "Cherabuddi Education Society, Tilak Nagar, Hyderabad" to offer UG/PG Degree Courses in the following disciplines with the intake shown against each for **3 years** from the Academic Year **2011-12 to 2013-14**. The Autonomous Status is conferred for batches starting from the Academic Year 2011-12, i.e., B.Tech 1/4 and M.Tech 1/2; however all senior batches of B.Tech 2/4, 3/4, 4/4 and M.Tech 2/2 will be governed by JNTUH Academic Regulations. The institution is required to adopt semester system from B.Tech 1st year onwards.

SNo.	Name of the Course	EXISTING INTAKE
1.	B.Tech-Computer Science & Engineering	120
2.	B.Tech-Information Technology	120
3.	B.Tech-Electrical & Electronics Engineering	120
4.	B.Tech-Electronics & Communication Engineering	180
5.	B.Tech-Electronics & Instrumentation Engineering	60
6.	B.Tech-Mechanical Engineering	60
7.	B.Tech-Civil Engineering	60
8.	MBA	60
9.	MCA	60
10.	M.Tech - VLSI System Design	36
11.	M.Tech - Computer Science & Engineering	36
12.	M.Tech - Embedded Systems	18
13.	M.Tech - Computer Science	18
14.	M.Tech - Electrical Power Engineering	18
15.	M.Tech - Wireless & Mobile Communication	18

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The Autonomous Status shall be subject to the following conditions:

1. The Management shall follow the autonomy norms of UGC and the rules of JNT University Hyderabad in all aspects without any financial commitment of JNTUH. The Broad Guidelines are:
 - The composition of following committees shall be as per the UGC Guidelines in addition to one representative each from the University.
 1. Governing Body.
 2. Academic Council.
 3. Board of Studies.
 4. Finance Committee.
 - **Constitution of Board of Studies:**
 - There shall be one expert from each branch from University for UG and PG courses.
 - 80 % of the Syllabi prescribed by the University for Affiliated Colleges shall be retained.
 - **Examination Branch:**
 - Establishment of full-fledged Examination and Evaluation System by appointing Controller of Examinations.
 - **Recruitment of Faculty:**
 - The recruitment of faculty can be done by the Governing Body, maintaining 1 : 15 staff student ratio for UG and 1 : 12 for PG Programmes and AICTE norms for cadre ratio of 1:2:6 is to be adhered.
 - **Other Aspects:**
 - Starting of any new course or increase of existing intake for UG and PG with a prior approval from the University is essential.
 - The University has got the right to visit the institution at any time and depute the Squads during examinations.
 - The University can conduct periodical academic audit to ensure continuation of the normal standards.
 - The University may consider the review of Autonomous Status from time to time.
 - Except for the examination fee, all other statutory fee as per the rules of the University/State Govt. shall be remitted to the University.
 2. The appointment of the Principal shall be ratified by the University.
 3. The appointment of 50% of faculty members shall be ratified by the University.
 4. During the period of Autonomous Status, the college is required to submit annual report along with Application fee, Inspection fee and Affiliation Fees and dues, if any.
 5. The University can withdraw the Autonomous Status at any time if the college does not satisfy the standards and norms of UGC/AICTE and the Affiliating University.
 6. The Institution is required to adopt semester pattern from B.Tech 1st year onwards.
- Note: **The Institution should seek autonomous status from UGC within one year from the issue of JNTUH order.**

J. Kishan Kumar Reddy
 REGISTRAR /c 8/8/11

To
 The Director / Principal,
 CVR College of Engineering,
 Vastu Nagar, Mangalpalli(V),
 Ibrahimpatnam(M),
 Ranga Reddy Dist – 501 510.

Copy to:

The Chairman/Secretary, Cherabuddi Education Society, Tilak Nagar, Hyderabad.
 The Principal Secretary to Government Higher Education (EC-1) Dept, Govt. of Andhra Pradesh, Secretariat, Hyderabad.
 The P.A. to Chairman, Andhra Pradesh State Council of Higher Education, JNTU Old Campus, Masab Tank, Hyderabad-500 028.
 The Secretary, A.P. State Council of Higher Education, JNTU Old Campus, Masab Tank, Hyderabad-28.
 The Commissioner of Technical Education, BRKR Govt. Office Complex, Hyderabad.
 The Member Secretary, All India Council for Technical Education, New Delhi – 110002.
 The Regional Officer, South Central Regional Office, AICTE, Masab Tank, Hyderabad – 500 028.
 The Asst. Educational Advisor (T), Southern Regional Committee, AICTE, Ministry of Human Resource Development (Dept. of Education), Shastry Bhavan 26, Haddous Road, Chennai-600006.
 Copy to the PA to V.C / PA to Rector / PA to Registrar/DE, JNTUH.

Enclosure C4-4



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

UGC Website : www.ugc.ac.in

Dr. Nidhi Sharma
Deputy Secretary
Ph: 011-23211513
nidhiugc@gmail.com

BY SPEED POST

No.F. 22-1/2014(AC)

Jan, 2014

The Registrar,
Jawaharlal Nehru Technological University
Hyderabad, Kukatpally
Hyderabad – 500 085 (A.P.)

20 JAN 2014

Sub:- Conferment of Fresh Autonomous Status to C.V.R. College of Engineering, Vastunagar Mangalpalli (V), Ibrahimpatan (M), R.R. Dist – 501 510 Andhra Pradesh affiliated to Jawaharlal Nehru Technological University, Hyderabad

Sir/Madam,

This has reference to the proposal dated 18.07.2012 submitted by C.V.R. College of Engineering, Vastunagar Mangalpalli (V), Ibrahimpatan (M), R.R. Dist – 501 510 Andhra Pradesh under the UGC scheme for conferment of fresh autonomous status and subsequent visit of the UGC Expert committee to consider the proposal on 06th & 07th September, 2013.

The report of the aforesaid Joint UGC Expert Committee was placed before the Standing Committee constituted for the purposes by the Commission to look into the Expert Committee reports for conferment of fresh autonomous status and extension of autonomy to colleges before its recommendations are placed before the Commission for its final approval.

The recommendations of the Standing Committee were placed before the Commission at its meeting held on 10.01.2014. The Commission, after taking due consideration of the recommendations of the Standing Committee, agreed to grant autonomous status to C.V.R. College of Engineering, Vastunagar Mangalpalli (V), Ibrahimpatan (M), R.R. Dist – 501 510 Andhra Pradesh under the UGC autonomous colleges scheme for a period of six year w.e.f. the academic year i.e. 2014-2015 to 2019-2020.

The Jawaharlal Nehru Technological University, Hyderabad may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down in the XIth Plan Guidelines for Autonomous Colleges by the Joint Secretary & Incharge, UGC, South Eastern Regional Office, PB No. 152, APSFC Building, 4th Floor, 5-9-194, Chirag Ali Lane, Hyderabad – 500 001.

Yours faithfully,

(Nidhi Sharma)

Cont...

Copy to:-

1. The Secretary, Higher Education Department, Govt. of Andhra Pradesh, J-Block, 4th Floor, A.P. Secit, Hyderabad – 522 022 (Andhra Pradesh)
2. The Joint Secretary & Incharge, UGC, South Eastern Regional Office, PB No. 152, APSFC Building, 4th Floor, 5-9-194, Chirag Ali Lane, Hyderabad – 500 001.
3. The Principal, C.V.R. College of Engineering, Vastunagar Mangalpalli (V), Ibrahimpatan (M), R.R. Dist – 501 510 Andhra Pradesh.
(A copy of the Expert Committee report is also enclosed for your information and guidance.)
4. Meeting Cell.
5. Concerned file
6. Guard File.

(Dr. (Mrs.) S.B. Gupta)
Under Secretary

D.CRITERIA-WISE INPUTS

CRITERION-I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How are the institutional vision / mission reflected in the academic programmes of the College?

CVR College of Engineering, though established only in the year 2001, has taken cognizance of major changes in the global developments, scientific and technological advancements, skills requirements of the industry and society at large. The curriculum design, development and implementation process at CVR College has always been to ensure that these needs are met while taking care of the local, regional and national manpower requirements. The vision and mission as described below, has the reflection in designing the curriculum and its implementation.

VISION OF THE COLLEGE

“The College aims at becoming as a state of the art institution of engineering in association with leading Non-Residential Indian technological professional and well-known Academicians of Telangana and Andhra Pradesh. Wishes to harness both the technical excellence and financial power of NRIs in making CVR College of Engineering a pre-eminent technical institution”.

MISSION OF THE COLLEGE

- To invite Senior Professors from JNTU, OU, IITs and scientific institutions to be on rolls of CVR College of Engineering to create excellent leadership, equally to attract qualified Teachers & Researchers.
- To impart quality education at undergraduate and graduate levels.
- To create an atmosphere of academic freedom to faculty members and planning of workload such that the faculties have enough time to improve their qualifications.
- To stress on quality of infrastructure, so that the laboratory facilities meet the requirements of UG/PG/Ph.D. level with latest technology and software.
- To establish very active industry-institution interaction cell, Entrepreneurship Development Cell and Centre for Excellence
- To strengthen teaching learning processes, including improving the student caliber from societal drawbacks.
- To offer incentives to staff to encourage improvement of qualification, publications, text book writing etc.
- To encourage merit of students by offering Gold Medals for toppers & best project, cash prizes for class wise, branch wise toppers for each year and offer incentives for paper presentations.
- To develop the Institute into University.

1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)

The academic programmes have been broadly developed to achieve the vision and mission statements of the institute. Various programmes of the college have been selected after wide range of consultations between all the stake holders keeping the vision and mission statements as the guiding principle. The process followed by the Institution is:

- Formation and meetings of the Academic Council. The Council consists of representatives from reputed universities, industries, research organizations apart from college Principal. General guidelines from the Academic council on the basis of Institution's Vision and Mission are impetus for the entire process.
- Formation and meetings of Board of Studies (BoS) of various departments and disciplines. The BoS members include representatives from University, Industry, Alumni apart from Department Head and senior faculty members.
- Informal as well as structured feedback from alumni, students, parents, industry, and employers. Curriculum of reputed Institutes like IITs, NITs are also considered.
- Wide range discussions are held within the Department about the inputs received from various agencies.
- Based on this Course structure reviewed and modified every two years, new subjects and Labs are introduced.

The recommendations of the Department are then forwarded to BoS and subsequently recommendations of the BoS are approved by the Academic Council.

The Governing Body has highly qualified senior Professors and industry representatives and the body gives the necessary academic direction and lays down policy matters. All these statutory bodies are formed as per the norms of UGC. University nominees are also members in all these bodies.

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

The process of development curriculum for the institute is highly dynamic in nature and the process involves students, alumni, faculty, representatives from reputed academic institutes, industry, research organizations etc. The college Governing Body and the Academic Council are two main important academic bodies of the institution. These bodies have eminent personalities from academic, industry and other walks of life with great achievements. The bi-annual meetings of these bodies are held to discuss key issues in tune with the vision and mission of the institution and give major academic directions to the institution.

Based on the broad guidelines given by these two bodies; wide range of discussions are held between all the stake holders. This involves the feedbacks taken from the students, their performance, placement achievements, feedback from faculty etc. Department level Board of Studies is then held to formulate the course structure for each branch of engineering. The Board of Studies (BoS) has large number of faculty members apart from the representatives from alumni, industry and from affiliated University. The recommendations of these BoS are then discussed at Academic council as well as Governing Body.

The important decisions taken in the Academic Council are communicated to the entire staff and students through circulars and displaying notices on the notice board and making announcements in the class rooms. The relevant portions are also reflected in the syllabus book, course files etc.

Once the curriculum to be followed has been finalized through series of systematic procedures, steps are initiated to ensure meaningful implementation of the same. The strategic meetings between Principal / College Chairman with Heads of Departments as

well as at department level are conducted to ensure that all the requirements including infrastructure, laboratory equipment, recruitment of qualified faculty members / staff, library resources etc. are ready well in advance before the commencement of the course work. During department level meetings teachers are encouraged to devise innovative methods to impart the curriculum such as presentations, assignments, discussions, workshops, seminars, industrial visits, computer education apart from regular/traditional teaching methods. Teachers are also advised to watch the NPTEL / MIT open courseware videos etc. so that they are better equipped and informed to undertake the curriculum related activities. These video lectures are available in the main resource library and Dept libraries in the form of CDs as well as faculty members can access them through the college intranet or internet.

The Dean Academics in consultation with the heads of the departments and Controller of Examinations prepare a comprehensive almanac. The almanac indicates the dates of commencement of the course work, schedule of mid / end exams, vacation periods, date for declaration of results etc. On the basis of this academic calendar different departments / sections schedule their own activities. Printed almanac and Curriculum booklets are distributed to all the students.

College has also formed Internal Quality Assurance Cell (IQAC) and actively involved and ensuring quality in the curriculum development and monitoring.

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

- o **Employability**
- o **Innovation**
- o **Research**

Employability:

The Institution has a highly dynamic approach towards the curriculum design; modifies the existing courses, introduces new courses in tune with the changing needs of the global market, industry and societal needs and requirements to carry out research in emerging and new areas. The Institute has taken special efforts during the last six years to structure the postgraduate programmes to make them more specialized, relevant and job oriented. Members from the industry and organizations are inducted in the Board of Studies of each programme and their inputs are incorporated into the curriculum design. Feedback of the alumni and employers are also taken into consideration while designing the syllabus. Employability is given the major attention in designing and developing the curriculum. The curriculum development emphasizes application/practical orientation, in addition to soft skill development and communication skills. Some of the suggestions of the industry are included in the revision.

To illustrate a few:

- (i) Enterprise Application Development Elective has been included as proposed by Infosys with the syllabus jointly drafted by the College and industry.
- (ii) Lab content has been increased to have detailed hands on experience.
- (iii) Departments have created a research Labs which will help industry related projects and M.Tech research projects.

The College has set up a Career guidance and Placement cell which maintains professional relations with the representatives of industry. The HR managers of various companies are invited to the college campus to interact at decision making level so that their inputs are considered in the curriculum development.

The College regularly organizes refresher courses, Staff Development Programs, orientation programs and workshops to keep the knowledge and teaching aptitude of the teachers updated. The faculty of the college can discuss their issues or problems, if any, while participating in the meetings of the Board of Studies. The College also encourages the teachers to participate in the Orientation/ Refresher Courses/ Workshops/ Seminars organized by the affiliating university to update their knowledge and to improve the teaching practices.

Innovation:

Faculty is encouraged to guide students in innovative projects reflected in Mini Projects. Innovative projects are a great attraction in college competitions like CIENCIA. One of the innovative projects on Solar Power Plant has been installed and commissioned in the entire top floors of the blocks. There is more than Rs.200 lakh investment by the college producing 280 KW power connected to the main grid also.

Another project is landscape development using water recirculation.

Dr. T. Esther Rani has a patent on "Self Sleep Device For Low Power VLSI Applications" published in the Official Journal of the patent office published on 30/05/2014 with an issue number 22/2014 bearing application number 2376/CHE/2013.

Dr. T. Esther Rani has received UGC Research Award. This will give a benefit of full salary paid by UGC for 2 years and an additional research grant of 3 lakhs for a period of 2 years from March 2015 to February 2017. Title of the Project sanctioned is "Design of modified self-sleep buffer for Distributed MTCMOS Technique in Arithmetic and Fast Computations".

Research:

- i) The College provides many incentives to encourage Research. One major incentive is to sanction leave with salary for 6 months and twice in Ph.D work duration. In addition a cash incentive of Rs. 25,000/- is given thrice. This has enabled almost 15 faculty members to complete Ph.D. 38 more faculty are at different stages of Ph.D work.
- ii) DRDO has sanctioned research project in the area of Material Science sanctioning Rs. 18 lakhs for a 3 year period during 2004-07. It was successfully completed.
- iii) RFID: The College encouraged research in RFID, a multi-disciplinary project sanctioning a Centre for RFID. An amount of Rs. 18.7 lakhs has been spent during 2009-10 and 2010-11 by the College Management under Institutional funding.
- iv) DRDO Hyderabad has sanctioned 3 projects releasing an amount of Rs. 25 lakhs in the area of DAS Hardware, OFDM, DAS Software. This also has been successfully completed recently.
- v) The College liberally sanctions grants towards Research Projects.
 - a. Development of Robust and Low Cost Unmanned Aerial Vehicles [U A Vs]for Surveillance & Commercial Applications (6.5 lakhs)
 - b. SDR (Software Defined Radio) Research laboratory (amount Rs 60000/-)
 - c. Solar powered car (Rs. 1 lakh)
 - d. Solar duster
 - e. Digital scrolling display Notice board

1.1.5 How does College ensure that the curriculum developed addresses the needs of the society and have relevance to the regional / national developmental needs?

Introducing the courses such as Chemistry, Physics, Mathematics, Environment science, etc. aim to provide training in specific skills, impart knowledge of ecology and environment, raise employment potential and fulfill global demands resulting in community development.

The teaching of Managerial Economics, Management Science subjects has been initiated with the objective of providing knowledge and training in the understanding and development of national living standards and providing leadership.

The provision of co-curricular activities in a variety of spheres aims at self-development and inculcating values like tolerance, cooperation, courage, helping attitude, scientific attitude, respect for others etc. and developing characteristics like expression, language development, capability to face audience, precision etc. The participation in cultural activities is aimed at understanding and preservation of culture. All this is expected to promote intellectual, academic, social, personal and value development among students besides training them in certain skills leading to better employment, understanding their surroundings including ecology, environment, society and world as a whole.

Some of the projects completed by the students illustrated below have direct relevance to societal needs.

S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Civil Engineering	Rain Water Harvesting	National Need
2		Land use & Land cover Assessment using High Resolution Remote Sensing Images	National Need
3		Hyderabad Metropolitan Water Supply System-Master Plan	Regional Need
4		Hyderabad Metropolitan Sewerage System-Master Plan	Regional Need
5		Waste-to-Energy systems for the City of Hyderabad	Regional Need

S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Computer Science & Engineering	Android Application for sharing your moments	National Need
2		Work Stealing Library for Multicore Numa Architecture	Regional Need
3		Power Aware Routing protocol to maximize the stability period in Wireless Sensor Networks	Regional Need
4		Implementing e-learning course for DAA using MOODLE	National Need
5		Double Watermarking of Dicom Medical Images using wavelet decomposition technique	Regional Need
S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Electronics and Communication Engineering	Face Authentication using Minutiae based features	National Need
2		Automated Gardening System using WSN	Regional Need

3		Voice Control Smart Home Appliances	Regional Need
4		Exam paper leakage protection	Regional Need
5		Weather Monitoring System using GSM	National Need

Department	Name of the Project on Regional / National needs	Regional Need / National Need
Department of Electrical & Electronics Engineering.	Design of 5 level cascaded H-Bridge inverter fed induction motor drive.	National Need
	HTC Insulation System for Turbo Generators.	National Need
	Design of Maximum Power Point Tracker based solar charger.	Regional Need
	Design of 200W switched mode power supply.	Regional Need
	Design of 7 level cascaded H-Bridge inverter fed induction motor drive.	National Need
	Dual axis tracking solar PV system	National Need
	Sensor based stick for physically challenged(blind) People	National Need
	BMI calculating Machine	National Need

S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Electronics and Instrumentation Engineering	Collision Avoidance Mechanism in Automobiles	Regional Need
2		Self Balancing Two Wheeled Robot using Gyroscope	National Need
3		Ultra Low Power Analog to Digital Converter for Biomedical Devices	National Need
4		Boiler Control using PLC	Regional Need
5		Dynamic Traffic Control System	National Need
6		Water Treatment and Distribution Process Plant	Regional Need

S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Information Technology	Continuous Skyline Queries for Moving Objects	Regional Need
2		Location Based Profile Management & Alert System	National Need
3		A Cross-platform GPS tracker using Phenegap by Behavioural Refactoring of Class Models	National Need
4		Topology Control in Mobile Adhoc Networks with Co-operative Communication	National Need
5		Easy Assigndroid	Regional Need
6		Development of Device Driver and Real Time Scheduler in Xenomai Real Time Operating System	Regional Need

S.No.	Department	Name of the Project on Regional/National needs	Regional Need/National Need
1	Mechanical Engineering	Development of eco friendly air conditioning system	National Need
2		Design and development of solar energy refrigeration system	National Need
3		Fabrication of micro hydel turbine used in place of inverter	National Need
4		Design and analysis of power transmission in hybrid vehicle	Regional Need
5		Design and fabrication of magnetic shock absorbers	Regional Need
6		Metering system for continuous dosage of pigment in PVC casting	Regional Need

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

The Institution, though having UGC autonomy is affiliated to JNTU, Hyderabad and hence follows all the general guidelines issued by the University for Curriculum Structure and syllabus of various subjects. AICTE Guidelines and model course component are also followed. However, many new subjects specially value added courses, English language skill laboratories etc. have been added taking into consideration the evolving needs. Many interdisciplinary elective subjects have been introduced and made open to all branches. As soon as Autonomy was accorded by JNTUH in 2011-12, semester system has been introduced from 1st year itself. In restructuring the curriculum, courses like Environmental Science, Cyber Crimes etc have been added which have National impact.

1.2 Academic Flexibility

1.2.1 Give details on the following provisions with reference to academic flexibility:

- a. Core / Elective options
 - b. Enrichment courses
 - c. Courses offered in modular form
 - d. Credit transfer and accumulation facility
 - e. Lateral and vertical mobility within and across programmes and courses
- a) **Core /Elective options:** The academic programmes are well structured in terms of number of credits required. A programme consists of three types of courses – core, elective (including inter-disciplinary) and projects. Students have to earn a minimum number of credits. The core options are compulsory subjects and these are combined with electives.
- b) **Enrichment courses:** Certificate and Training programmes are organized every year mainly by Placement and Training Cell by involving Industry Experts. Some programmes are also meant for staff members. The programmes have been benefitting the students. The outcome is that large number of students are getting placed year by year.

The following are the details of the typical programmes organized in last two years for the benefit of the students. There are many more programmes not listed due to constraints of space.

Programmes organized by the Placement Cell:

S. No.	Programme	Period	Staff involvement
1	Infosys Faculty Enablement Program at Swarnandhra College,Narsapuram	8th to 12th July, 2013	Domain Faculty – Mr. Bhanu Mahesh (Asst Prof.)) & N.Sateesh (Asst Prof.)
2	Infosys Campus Connect Faculty Award Ceremony	26th July 2013	Eight Faculty Members.
3	Faculty development program on SAP (Sai Spurthi Institute Of Technology)	18th-21st Sep, 2013	Domain Faculty – N. Sateesh, Asst. Prof.(IT) P.Narsimhulu Asst. Prof. (CSE), S. Sambasiva Sarma, Assoc. Prof.(MBA)
4	Campus Connect, Train The Trainer(TTT) Workshop at Aditya Engg. College - Kakinada	27th-29th Nov, 2013	Domain Faculty – C.V.S. Satyamurthy (CSE) & N. Nagarujna (CSE)
5	MITSUBISHI ELECTRIC INDIA PRIVATE LIMITED Faculty Training Program	13th,14th and 15th May 2015	ECE,EEE,EIE Faculty
6	IBM FDP Program at MLRIT College Mr. R. Sahith Asst. Prof	28th July 2015	Mr. R. Sahith Asst. Prof CSE
7	3-day Faculty Enablement Program (FEP)- Organization Impact Skills and Art of facilitating behavioral skills. FEP	7th,8th & 9th Oct 2015	Ms. Kalavathi Mallaiah Mr. Samuel Christy H&S Faculty
8	TCS FDP Programme	19th & 20th Nov 2015	18 Faculty Memebbers
9	TASK-CDAC FDP	2nd Dec 2015	
10	CDAC FUP Program -"Digital System Design using Verilog" Karrar Hussain, Associate Professor from Department of ECE	18th jan - 22nd Jan 2016	Mr. Karrar Hussain, Associate Professor from Department of ECE -----
11	Infosys Campus Connect Faculty Enablement program	8th to 13th Feb 2016	Mrs. P. Madhavi Asst. Prof (CSE) Mr. B. Ashwin Kumar Asst. Prof.(CSE)

- c) **Courses offered in modular form:** Each department divides the core courses in programme specific modules as per norms of AICTE. Each programme specific module

has a combination of courses. In that process all core courses for each department are included in the curriculum. To illustrate ECE Department modules are furnished below:

Course Component	Name of the Subjects	Year & Semester
Humanities	English	I-I
	English Language & Communication Skills Lab –I	I-I
	English Language & Communication Skills Lab –II	I-II
	Verbal Ability Lab	II-I
	Reasoning and Logic Lab.	II-II
	Environmental Studies	II-I
	Advanced English Communication & Soft Skills Lab	III-I
Management Sciences	Managerial Economics & Financial Analysis	III-I
	Management Science	IV-II
Engineering Mathematics	Mathematics – I	I-I
	Mathematics – II	I-II
	Mathematics – III	II-I
Sciences	Engineering Chemistry	I-I
	Engineering Chemistry Lab	I-I
	Engineering Physics	I-II
	Engineering Physics Lab	I-II
Engineering Core	Problem Solving Through C	I-I
	Engineering Drawing – I	I-I
	IT Work Shop Lab	I-I
	Computer Programming Lab	I-I
	Electrical Technology	I-II
	Data Structures Through C	I-II
	Engineering Workshop Practice Lab	I-II
	Engineering Drawing – II	I-II
	Data Structures Through C Lab	I-II
	Principles of Electrical Engineering	II-I
	Electrical Engineering Lab	II-II

Course Component	Name of the Subjects	Year & Semester
Probability and Statistics	Computer Oriented Numerical Methods	I-I
Management Sciences	Fundamentals of Marketing (Open Elective)	I-I
	Project Management(Open Elective)	I-I
Department Core		
Mathematical Sciences	Probability Theory & Stochastic Processes	II-I
Electronics	Electronic Devices & Circuits	II-I
	Electronic Devices & Circuits Lab.	II-I
	Electronic Circuit Analysis	II-I
	Pulse & Digital Circuits	II-I
	Electronic Circuit Analysis Lab	II-II
	Pulse & Digital Circuits Lab	II-II

Computer Systems & Design	Logic & Switching Theory Computer Organization Operating Systems Micro Processors & Micro Controllers Micro Processors & Micro Controllers Lab Embedded Systems	II-II III-I III-II III-II III-II IV-I
IC	IC Applications IC Applications Lab VLSI Design e-CAD & VLSI Lab. Digital Design Through Verilog HDL	III-I III-I IV-I IV-I IV-II
Signal Processing	Signals & Systems Digital Signal Processing Digital Signal Processing Lab. Digital Image Processing	II-I III-II III-II IV-I
Electromagnetic and Microwave	Electromagnetic Theory & Transmission Lines Antennas & Wave Propagation Microwave Engineering Microwave & Digital Communications Lab.	II-II III-I IV-I IV-I
Communications	Analog Communications Analog Communications Lab Digital Communications Cellular and Mobile Communications Telecommunication Switching Systems & Networks Microwave & Digital Communications Lab. Satellite Communications Radar Systems Optical Communications	III-I III-I III-II IV-I IV-I IV-I IV-II IV-II IV-II
Networking	Computer Networks Wireless Communications and Networks Internetworking	III-II IV-II IV-II
Interdisciplinary Elective	Operations Research Principles of VLSI design Elements of Civil and Mechanical Engineering	IV-I
Evaluation Criteria	Industry Oriented Mini project Seminar Comprehensive Viva Voce Project Work	IV-I IV-II IV-II IV-II

- d) **Credit transfer and accumulation facility:** The credit transfer scheme is not available in the affiliating University return to College. That being a major policy, even though the college is autonomous, the college cannot follow such a policy. The State Government has a policy of transfer of a candidate from any University to College. In such a case based on the guidelines of the University the candidates are admitted in College. All credits earned in previous Institutes are then transferred to continue to accumulate for the further credits. There is a ceiling of 1% for such transfers.

Regulations of the College permit accumulation of credits from I year to IV year to award degree based on minimum credits acquired by the students and successful completion of essential courses. Finally the University will award degrees even for Autonomous Colleges.

- e) **Lateral and Vertical mobility within and across programmes and courses:** The college has to follow all admission rules as all admissions are made by State Council of Higher Education. Lateral mobility is not permitted as per Government direction. Vertical Mobility is automatic for any student to enter into second, third and fourth year based on eligibility of acquiring minimum credits at the end of each year.

An academic year consists of two semesters.

Odd semester: July to November and even semester: December to April. A semester normally extends over a period of 16 instructional weeks. Each week has around 35 working periods spread over a 5 day week. The curriculum includes industry oriented mini project and a major project as part of the programme.

There are core and interdisciplinary electives and the student can choose any elective depending upon his/her interest. There are no add on courses as on now.

- f) The course under CBCS has been introduced from the Academic Year 2015-16 for Ist B.Tech and Ist M.Tech as per AICTE model scheme as shown.

Topic	Expected % (AICTE)	Credit	% Credit
Basic Science	(15 -20%)	24	12.50%
Engineering Science	(15 - 20%)	28	14.50%
Humanities and Management	(5 - 10%)	19	9.80%
Professional core	(30-40%)	77	40.10%
Professional Elective	(10 - 15%)	12	6.25%
Open Elective	(5-10 %)	12	6.25%
Minor Courses		4	2.08%
Project, Seminar and Industrial Training	(10-15%)	16	8.33%
Expected Total credit -180 to 200	100%	192	100%

The syllabus for each subject insturn has been divided into five modules in consistency with end question paper having 5 questions having internal choice for the batches starting from academic year 2015 -16 onwards.

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

Admission of Foreign Students is a policy to be permitted by AICTE and the affiliating University under PIO scheme. The College is not having such a facility. However the following are the courses which attract the attention and the importance of the students globally.

S.No.	Branch	Title of Subjects	When offered
1	Civil	Remote Sensing & GIS	3 rd /4 th year
		Retrofitting and Rehabilitation of Structures	
		Water Management	
		Environmental Impact Assessment & Management	
		Intellectual Property Rights	
		Green Building Concepts	
2	EIE	Robotics & Automation	3 rd /4 th year
		Opto Electronics & Laser Instrumentation	
		Renewable Energy Sources	
		Artificial Neural Networks	
3	ECE	Internetworking	3 rd /4 th year
		Radar Systems	
		Satellite Communications	
		Nano Technology	
		Mobile Applications Development using Android	
4	EEE	Power Quality	3 rd /4 th year
		Neural Networks & Fuzzy Logic	
		Biomedical Instrumentation	
		Reliability Engineering	
5	Mechanical	Engineering Acoustics	3 rd /4 th Year
		CAD/CAM Cryogenic Engineering	
		Safety Engineering	
		Rapid Prototyping	
6	CSE	Business Intelligence & Big Data Analytics	3 rd /4 th Year
		Cloud Computing	
		Mobile Computing	
		Semantic Web & Social Networks	
		Intellectual Property Rights	
7	IT	Business Intelligence & Big Data Analytics	3 rd /4 th Year
		Cloud Computing	
		Intellectual Property Rights	
		Cyber Forensics	
		E-Commerce	

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

No. As of now no policy decision is taken by the College. Such programmes have to be approved by AICTE.

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

The following are the programmes conducted by the institution as approved by AICTE, State Government and the affiliation University. The College has been established as self-financing Private College. As such all the following courses are self-financing.

UG: B.Tech	Intake
EEE - Electrical and Electronics Engineering	120
ECE - Electronics and Communication Engineering	240
CSE - Computer Science & Engineering	300
IT - Information Technology	120
EIE - Electronics and Instrumentation Engineering	60
Civil	120
Mechanical	240
Total	1200
PG:	
M.Tech (VLSI Design)	36
M.Tech (CSE)	36
M.Tech (Embedded Systems)	18
M.Tech (Elec. Power Engg)	18
M.Tech (Wireless & Mobile Communications)	18
M.Tech. (Civil - Structural Engineering)	24
Total	150

The Admissions are made by Government as per laid policies of statutory provision.

The College cannot make any admission policy. The Fee Structure is also fixed by the State Government which is valid for a period of 2 years and subject to revision. Teacher qualification is strictly as per AICTE norms. The college has implemented UGC revised pay-scales 2006 for all Teachers.

1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

Yes. The College offers 4 year (8 semester) Bachelor of Technology (B.Tech) Degree Programme, under Choice Based Credit System (CBCS) with effect from the Academic Year 2015-16 after the approval of Boards of Studies and Academic Council of the college. All branches of B.Tech and M.Tech admitted in 2015-16 are governed by CBCS. The course structure and syllabus prepared include flexibility for the students by including open electives and interdisciplinary electives. Such proposed subjects are listed below:

List of Open Electives				
Sl. No.	Name of Dept.	Open Elective-1	Open Elective-2	Open Elective-3
		Subject		
1	CE	Innovative Construction Practices	Intelligent Transport Systems	Low Cost Housing
2	CSE	Fundamentals of Computer Networks	Knowledge Management	Introduction to Cloud Computing
3	ECE	Space Systems	Wireless Sensor Networks	Global Positioning Systems

4	EEE	Electrical Safety	Solar Systems	Vehicular Electric Power Systems
5	EIE	Basics of Reliability Engineering		
6	IT	Software Project Management	Fundamentals of Mobile Computing	Fundamentals of E-Commerce
7	ME	Basics of Automobile Engineering	Fundamentals of Manufacturing Technologies	Concepts of Refrigeration and Air Conditioning
8	H&S	Enterprise Resource Planning	Human Values & Professional Ethics	Managing Innovation & Entrepreneurship
		Indian & International Business Environment	Fundamentals of Operations Research	English Literature
		Nano Technology	Material Science	Project Management

Interdisciplinary Electives offered by Departments

Sl.	Name of Dept.	Name of the Interdisciplinary Elective Subject
1	CE	Traffic Engineering
		Engineering Materials for Construction
		Basics of Surveying
2	CSE	Algorithmics
		Fundamental Concepts of Databases
		Java Programming
		Scripting Languages
3	ECE	Modern Wireless Communication Systems
		Consumer & Entertainment Electronics
		Aerospace & Automobile Electronics
4	EEE	Non Conventional Sources of Energy
		Energy Storage Systems
		Industrial Electronics
5	EIE	Medical Instrumentation
		Industrial Instrumentation
6	IT	Web Programming
		Problem Solving Techniques
		Fundamentals of Computer Systems
7	ME	Energy Engineering
		CNC Machines
		Hydraulics and Pneumatics
		Computer Aided Manufacturing
		Supply Chain Management
8	H&S	Entrepreneurship
		Intellectual Property Rights
		Operations Research
		Engineering Optimisation
		Reliability Engineering

1.2.6 What percentage of programmes offered by the College follows:

- o Annual system
- o Semester system
- o Trimester system

Semester System 100%

1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

The college offers interdisciplinary subjects between B.Tech. branches after approval by BoS. Study of subjects provide a broader understanding of varied subjects offered by other branches. These subjects provide a platform for students to undertake multi disciplinary projects like UAV projects undertaken in the college.

The College offers interdisciplinary subjects between B.Tech branches as approved by B.O.S. The following are such programmes.

S.No.	B.Tech (Branch)	Name of Inter-disciplinary subject	When offered
1.	Civil	Intellectual Property Rights	3 rd /4 th Year
		Database Management Systems	
		Entrepreneurship	
		Object Oriented Programming Using C++	
2	CSE	Principles of VLSI Design	3 rd /4 th Year
		Operations Research	
		Elements of Civil and Mechanical Engg.	
3	ECE	Biomedical Instrumentation	3 rd /4 th Year
		Network Security	
		Multimedia & Signal Coding	
		Object Oriented programming through JAVA	
4	EEE	Neural Networks and Fuzzy Logic	3 rd /4 th Year
		Nano Technology	
		Principles of VLSI Design	
		Object Oriented Programming through C++	
5	EIE	Nanotechnology	3 rd /4 th Year
		Elements of Civil & Mechanical Engineering	
		Object Oriented Programming through Java	
		Entrepreneurship	
6	IT	Principles of VLSI Design	3 rd /4 th Year
		Operations Research	
		Elements of Civil and Mechanical Engineering	
7	Mechanical	Robotics	3 rd /4 th Year
		Entrepreneurship	
		Engineering Optimization	
		Intellectual Property Rights	
		Nano Technology	
		Object Oriented Programming through C++	
		Database Management Systems	

1.3 Curriculum Enrichment

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

The syllabus revision is a continuous process carried out by the Board of Studies of the Institution. The recent developments in various technologies and standards and codes are incorporated into the syllabus as and when the need arises.

- Once in every two years, the curriculum is reviewed by the College.

1.3.2 How many new programmes at have been introduced UG and PG level during the last four years? Mention details.

The following are the details of new programmes introduced over the last 4 years.

B.Tech (UG) Programme:

Academic Year	Name of Programme	Intake
2011-12	Civil Engineering	60
2011-12	Mechanical Engineering	60

M.Tech (PG) Programme:

Academic Year	Name of Programme	Intake
2010-11	Electrical Power Engineering.	18
2011-12	Computer Science	18
2011-12	Wireless & Mobile Communication	18
2014-15	Structural Engineering	24

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

The Feedback from Alumni, Parents, Industry and Employers of our Alumni is kept in view before introducing new courses. These are discussed by the BOS of each branch and are adopted with suitable modifications. In the revision during 2012–13 for Autonomous Stream about 15% of courses underwent a major syllabus revision. Now the second revision is going to take place for the autonomous stream and almost 20% to 25% of the courses are proposed to undergo revision.

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

- The College also offers skill development, personality development and communication skills improvement programmes as value added courses to students
- The students are also exposed to Hardware and Networking Training to enhance their employability
- Two Communications Skills lab courses for all branches at first year and third year level were introduced to enhance their capabilities in communication and leadership abilities to better their opportunities in getting employment
- Many Campus recruitment training programmes are conducted every year to enhance capabilities in leadership abilities to improve their opportunities in getting employment

- In addition to the above the following value added courses are now added and
- studied by students as compulsory courses, utilizing the Autonomous status

S.No.	Title of Subject	No. of Periods	Credits allotted
1	Verbal Ability Lab	2	1
2	Reasoning & Logic Lab	2	1
3	Data Interpretation Lab	2	1
4	Quantitative Ability Lab	2	1

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

Keeping in view the requirements of the students to develop skills in order to meet domestic and global requirements the following skill development courses have been introduced from 2013-14 onwards.

1. Verbal Ability
2. Reasoning & Logic
3. Data Interpretation
4. Quantitative Ability Lab
5. Industry Oriented Mini Project
6. Advanced English Communication and Soft Skills Lab and Theory
7. Comprehensive Viva at the end of four years.

All the above courses are compulsory. They could be introduced because of the Autonomous status of the College. In addition the following skill improvement programmes, delivered by Industry experts have been conducted for short duration for all the students.

Programmes conducted during 2014-15 are listed below: Similar programmes were held every year.

S.No.	Programme	Period	For the benefit of
1	Campus Recruitment Training (CRT)	27 th May to 30 th June. 2013	All Third Year Students
2	Infosys Faculty Enablement Program @ Swarnadhra College Narsapuram	8 th July to 12 th July 2013.	Two Faculty Members (Mr Bhanu Mahesh & N. Sateesh)
3	Microsoft Innovation Center (MIC)	26 th July 2013	All Third Year Students.
4	Infosys Campus Connect Faculty Excellence Awards 2013	26 th July 2013	Eight Faculty Members.
5	Alumni Meet	17th August, 2013	Students
6	A session by Anil Nair	23rd August, 2013	All third year students on CAT / MBA Career opportunities 2015 Pass Outs
7	SAP Techniversity 2013 Seminar – Rahul Sachdev – Manager - Industry Academia Alliance	26th August, 2013	III Year Students (CSE & IT)

8	FF2H Seminar by Pradeep Desu – HR Pocket Gems	10th Sep, 2013	All Final Years 2014 YOP for free training over weekends
9	Faculty development program on SAP (Sai Spurthi Institute Of Technology)	18th-21st Sep, 2013	N. Sateesh, Asst. Prof.(IT) P.Narsimhulu Asst. Prof.(CSE),S. Sambasiva Sarma, Assoc. Prof.(MBA)
10	Anil Nair Session	01st - 02nd Oct, 2013	For B. Tech. & M.Tech. 2014 YOP
11	Campus Connect, Train The Trainer(TTT) Workshop at Aditya Engineering College - Kakinada ::	27th-29th Nov, 2013	C.V.S. Satyamurthy (CSE) & N. Nagarujna (CSE)
12	One Day Data science work shop by ITs AP	10th Dec, 2013	
13	AMCAT Exam	14th Dec, 2013	2014 Pass Outs
14	ANGLO EASTERN SHIPPING COMPANY	23-01-2014	Final Year Students
15	Deloitte Collegiate Cyber Threat Competition — Wave III	21-01-2014	All Third Year Students
16	CRT Training -2015 YOP	13th May to 9th June 2014	All Third Year Students
17	Deloitte shortlisted 62 students Training by External Faculty	24th to 26th 2014	Final Year Students
18	ANIL Nair Session B.Tech 2015 YOP	13th August 2014	2015 YOP
19	Cyient Foundation Mech online exam	23rd Sep 2014	Mech Third Year Students
20	Guhring (Banglore) HR (Prasanna) Guest Lecture	24th Sep 2014	All Third Year Students
21	Infosys Aspirations 2020 Programming Contest	24th Sep 2014	CSE & IT Third Year Students
22	TCS Orientation for (TCS Placed students & Third year students)	18th Dec 2014	TCS Placed students & Third year students
23	Mitsubishi Electric India Pvt Ltd MOU	21st Jan 2015	ECE,EEE,EIE Final Year Students
24	TCS Workshop on "Technology Trends - Focus Areas for Students"	17th March 2015	All Final Year Students
25	Virtual Labs Workshop JKC	19th March 2015	All Final Year Students
26	MITSUBISHI ELECTRIC Sponsered Factory Automation Lab Inauguration	15th April 2015	ECE,EEE,EIE Final Year Students

27	TCS Workshop on "Employability Skills and Technology Trends" - 2016 YOP	24th July 2015	All Final Year Students
28	TCS Webinar on CodeVita - 2016 YOP	30th July 2015	All Final Year Students
29	CNET Online Test - 2016 YOP	1st August 2015	2016 YOP
30	TCS CodeVita Mock Test	3rd August 2015	All Final Year Students
31	Tech Mahindra Team Visit address Students	12th August 2015	All Final Year Students
32	Mock Interviews & Quant Training - 2016 YOP	15th & 16th August 2015	2016 YOP
33	TCS Preplacement Talk - 2016 YOP	17th August 2015	2016 YOP
34	Omega TCS Mock Test	19th August 2015	All Final Year Students
35	US Team Visit address the MS Aspiring Students - 2016 YOP	9th Sept 2015	MS Aspiring Students
36	Global Edge MOU	15th Sep 2015	All Final Year Students
37	TASK AUTOCAD Workshop (Civil & Mech)	30th Nov, 1st & 2nd Dec 2015	Civil & Mech Students
38	Mphasis Special Training Class	5th & 7th Dec 2015	Final Year Students
39	Persistent Digital Disruption Workshop	18th Dec 2015	CSE & IT Final Year Students
40	TCS –EIS Technova Workshop	22nd Dec 2015	All Final Year Students
41	Unisys Cloud 20/20 V7 - Exclusive Webinar	22nd Dec 2015	CSE & IT Third Year Students
42	Unisys Webnair - CSE & IT Third Year	6th Jan 2016	CSE & IT Third Year Students
43	TCS - Live Webinar on Cyber Security (CSE & IT- 3rd Year Students)	19th Jan 2016	CSE & IT Third Year Students

The College conducts a 3 day student level National Technical Competitions, CIENCIA, every year. About 30 colleges are represented by the students. It is highly competitive feat with prizes of the order of Rs. 10,000/-. Students have to pick up high skills and innovation techniques to present in different events.

CII at Chennai was conducting innovative project competitions by screening at three levels. The Judges were from Industry. Students of CVR have received second best prize with Rs. 50,000/- in two years during 2008-09 and 2009-10. Such programmes give very good scope for developing high skills.

Students are encouraged to take up their final year compulsory project works in nearby Industries to enable them to learn various industrial practices with reference to Circuit design, software development, production, inventory, etc., to become employable.

The students are encouraged to participate in various challenges and competitions

conducting by various organizations such as IBM, MOTOROLA, INFOSYS, Delloitte, TCS, etc.

S.No.	Company Name	Competition Name	For the benefit of
1	IBM	The Great Challenge (TGMC)	3rd and 4th Year Students
2	Infosys	Aspirations2020	3rd and 4th Year Students
3	Deloitte	Cyber Security Challenge	3rd and 4th Year Students
4	TCS	CodeVita,Egnix,GameOn	3rd and 4th Year Students
5	Mitsubish	National Level Competition on Automation	ECE,EEE,EIE 4th Year Students
6	Virtusa	PEGA	CSE & IT Final Year Students
7	IGATE	Inter College Scrabble Tournament	CSE & IT Final Year Students

1.4 Feedback System

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

- Yes, we collect feedback from the students during the 4th week and 15th week of semester from every course.
- Feedback is an instrument used judiciously to improve the current practices with reference to the curriculum. Therefore suggestions and feedback forms are filled by students and alumni.
- Feedback is obtained regarding the performance of teachers, learning process, curriculum and infrastructure of the college in a structured format comprising of a standard questionnaire
- Feedback is also obtained through personal interaction with students during the meetings with Student counselors and Mentors.
- The feedback is also used internally to enrich the content and also fill the gaps in the curriculum in the form of extra content.
- Interactive sessions between the college officials and parents are regularly conducted to invite their suggestions with regard to curriculum and the training offered by the institute.
- Feedback is obtained from the outgoing students on curriculum and worthy suggestions.
- The suggestions / comments of the faculty are also received through self appraisal forms.
- The institution takes part in the curriculum development process through appropriate analysis of feedback from time to time and assimilates the suggestions in the functional style of the institution.
- The relevant/valid feedbacks from the students are implemented in the curriculum revision

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

- Yes, the institution takes informal feedback from National faculty like professors from IISc, IITs, and NITs& R&D organizations.

- The departments are advised periodically by experts from National Institutes like IISc, IITs, and NITs etc. during their visits to the institution for expert lectures etc.
- The members of the faculty interact with the students, parents, alumni, academic peers and the personnel of industries and companies that come to the campus for recruitments; they also interact with experts in their fields when they attend seminars, conferences, work-shops, etc. they also provide suggestions to their respective heads of the departments for curriculum revision which in turn are presented by the HODs to the members of the BOS for consideration.
- Such interaction has resulted in updating the curriculum as per the industry requirement and future scope of research. Such inputs received from companies like Infosys, TCS, IBM etc. are being implemented.
- Before drafting the syllabi, each department refers through the curriculum of NITs, IITs as they are available in their websites.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

The college obtains feedback from all the stakeholders as well as the academic peers.

- Alumni:** The alumni of CVR College of Engineering conduct meeting at least once a year and makes suggestions to the college authorities in various matters. All Heads of Departments interact with Alumni by sending mails.
- Employers / Industries:** The students of all courses have to undergo a compulsory on-the-job-training for a period of four weeks in different industries/ institutions/research labs/ organizations. The feedback from these is obtained by the college regarding the performance of the students as well as the curriculum.
- Community:** The College does not have a parents' association. However, representatives of various communities to which the students belong are present in the governing body and are actively involved in decision-making. However, parents are welcome to give their suggestions and feedback. At First year level, there is continuous interaction with parents, and at times, on a daily basis.
- Academic Peers:** The academic peers who are involved in evaluating the answer books and conducting practical exams give their feedback. Some departments maintain a separate register to record their suggestions and feedback.

Further, some of the academic peers and industry people are also in the Board of studies as well as Academic Council. The BoS meetings deliberate and discuss widely the various factors that influence the future course of engineering in India. The views and experiences of alma mater and industry experts offer a precursor for curriculum revision. The following aspects are examples of such a revision in Computer Science curriculum.

- “Mobile Application Development through Android” – course is introduced in B.Tech curriculum for IV-I students from 2011 onwards. This course was inducted into the curriculum upon receiving feedback from K Ramakrishna Reddy, former Alma mater who had conducted a 14-day workshop for faculty members on Android. Lab sessions are designed to include latest APKs. This subject helped many a student to take up real world problems and develop many applications.

- II. In the realm of Big Data and Analytics, the need of introducing the program model to Computer and Information technology students is very essential. Hence R-programming model is introduced for undergraduate as well as for post graduate students. Regulation R-15 included Data Mining and Business Analytics and R-programming courses which are in tune to industry needs.
- III. In face of rapidly changing client requirements and industry standards, it is very essential for engineering graduates to have practical exposure while developing enterprise applications. As a part of Memorandum of Understanding with Virtusa under University Connect program, Department of Computer Science and Information Technology established a Business Process Modeling lab with Pega technology. The Virtusa selects undergo two phase certification program by Sri Suhail Afroz- Sr Asst Professor(IT), Sri S Nagesh- Sr Asst Professor, Pega Certified professionals.
- IV. To make the students industry ready and to equip those with latest industry technologies .NET framework is introduced for B.Tech III-II- CSE and IT students.
- V. Five Theory subjects and Three Labs for B.Tech CSE III Year are introduced into the R-15 curriculum to give more emphasis to new technologies

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

- The BOS & Academic council has senior faculty from renowned academic institutions, scientists from R&D organizations and Experts from Industry in different disciplines who will review and validate the curriculum proposed by the Departments.
- The mid exam and final exam results are thoroughly analyzed and corrective measures are worked out so that the Institutional Vision and Mission are achieved.
- The process of assessment of Programme Outcomes (POs), Programme Education Objectives (PEOs) and Course Outcomes (COs) are very effectively carried out.

1.4.5 Any additional information regarding Curricular Aspects, which the institution would like to?

Evaluation System:

- Before the sanction of Autonomous status to the College, College was functioning as Affiliated College.
- There were two mid examinations stipulated by the University and best one is preferred towards internal marks. This has lead to some students not taking both the examinations.
- To bring in continuous learning and evaluation, with the autonomous status, College has changed the rule to have three mid examinations and best two are considered.
- A further revision is made to bring in more seriousness. Now the regulations are two mid exams to be held in a semester and average of both is taken for awarding internal marks. This helps the students to take mid examinations more seriously.

CRITERION-II: TEACHING-LEARNING & EVALUATION

2.1 STUDENT ENROLMENT & PROFILE

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

Publicity:

Admissions are made by the Telangana State Council of Higher Education based on merit rank obtained at the State Level Common Entrance Examination. All statutory regulations in respect of reservations are followed.

The State Council announces the examination dates in prominent newspapers inviting applications and conducts the EAMCET examination on the said date at various centers spread over the Telangana State. After the results of the examination are announced the Admission schedule for B.Tech is prominently announced in the newspapers and also on the website of the State Council.

Transparency:

All the relevant information is documented by the Government and published in News Papers and hosted on the website of the State Council. In addition HELP LINES and COUNSELING centers are setup by the Government to guide the aspiring students and parents in seeking admission in the branch and college of choice. There is complete transparency in the admission process. This procedure is being followed during the last twenty years year after year without giving room for complaint from any quarter.

Admissions into M.Tech programmes are also done by a Convener appointed by the Government following similar procedure ensuring complete transparency and wide publicity at all stages

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?

Admissions for UG(B.Tech): Admissions are made based on centralized procedure.

B.Tech: Admissions are made under two categories. Category-A admissions for 70% students are made by State Council through a Convener, EAMCET admissions. Advance notification is issued in all News Papers and State Council Website giving date-wise Ranks to be covered on each day. Statutory reservations are made for SC, ST, OBC and others as per Government Order. EAMCET rank is the criterion for making admissions. College has no role in making admissions under Category-A.

For Category-B seats, called Management Quota 30% of seats are filled following the Guidelines issued in G.O. All such admissions made are to be ratified by the State Council. As such College gives transparency in filling such Category-B seats also.

Admissions for PG (M.Tech):

There is a separate Common Entrance Test called PGECET. Rank obtained in PGECET is criterion for admissions. The Convener, PGECET fills 70% seats, first inviting GATE qualified rankers. Balance seats available are filled with PGECET rankers.

For Category-B seats, College notifies and fills the seats. Finally the list has to be approved by the State Council. All admissions for B.Tech & M.Tech for Category-A are made "ON LINE".

Counseling: There is a procedure followed as listed below:

- i.) Verification of Certificates.
 - ii.) Counseling for exercising options of college and branch giving choice of multiple options to students.
 - iii.) Time given for editing.
 - iv.) Allotment of seats and allotment letter obtained Online.
 - v.) This is followed by payment of fee and reporting to College before the last date.
- Ph.D. admissions: College does not have eligibility for Ph.D. admissions unless they are approved by AICTE or affiliating University.

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

The admissions list made by Government are passed on to the College (Category wise like SC, ST, OBC etc.). College on its own does not have any role to review the admission process.

Role at College: As per the allotted list, College communicates to the Convener about the list of Students reported, so that left over unreported cases are filled in the second phase by Convener. CVR College has had to date all seats filled in first phase itself. According to EAMCET data, CVR College of Engineering stands at 5/6th preferred College among 350 Colleges under JNTU, Hyderabad.

However the College reviews the ranks of students admitted as compared to previous years to know the status of the College. College adopts various methods like Tutoring and Remedial coaching for needy students. Every year English Communication classes are arranged on Saturdays for students with rural background and weaker sections. For I year students there is regular communication to parents even if a student is absent for a day or Lab class. All such efforts have helped majority of the students to score good results, in turn helping in increase in the total number of placements.

2.1.4 What are the strategies adopted to increase / improve access to students belonging to the following categories

SC/ST

OBC

Women

Different categories of persons with disabilities

Economically weaker sections

Outstanding achievers in sports and extracurricular activities

Admissions are made by the State Council strictly following statutory reservations. Government Orders clearly state the method to be followed in case of unfilled vacancies in the event of candidates not being available. Students belonging to the above categories need additional support and the College adopts the following strategies to increase/improve access:

- i.) College has book bank facility for SC/ST students separately.
- ii.) For every 15 to 20 students, a mentor is provided who is also a subject teacher.
- iii.) For students facing learning problems as well as having personal ones counseling is provided to help them perform better.
- iv.) Lift is available in almost all the building as a facility for the disabled students.
- v.) Scribes are provided for physically challenged like hearing/sight impaired students.
- vi.) Ramps are available for easy access.
- vii.) There is a separate reservation in admissions for handicapped category applicants.
- viii.) Special care is taken to provide personal attention.

Girl students have separate lounge in every building.

- There is a Women Grievances Cell headed by a lady Professor and a complaint box is provided in the campus which will be opened in the presence of the Principal.

- College has about 38% faculty (about 100) lady teachers who will interact with girl students.
- In College buses separate seating is arranged in the front rows for Girl students and lady faculty.

Economically Weaker Sections: There is a % reservation in admissions for economically weaker sections. Tuition fee reimbursement is made based on income ceiling as stipulated in G.O. College helps some deserving students by exempting from special fees.

Outstanding achievements in sports: There is a Sports Quota in Government Order to make admissions. The criterion for priority of sports quota is defined in Government Order. Admissions are made by Government for this also.

College sponsors students for travel to participate in National and State level competitions.

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

B.Tech:

Categories	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	36	13	61	15	61	19	71	32	83	39	85	38
ST	18	09	25	10	25	08	35	13	39	16	28	17
OBC	251	101	224	106	234	145	290	169	366	178	323	136
General	98	48	175	104	225	106	274	129	123	156	397	175

M.Tech

Categories	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	08	03	07	02	09	02	09	03	08	04	05	07
ST	03	01	02	01	03	01	03	02	05	03	---	02
OBC	28	13	32	14	47	17	37	13	33	11	16	25
General	26	08	26	06	44	12	34	11	23	08	10	22

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase / decrease.

Programme	Number of Applications	Number of Students admitted	Demand Ratio
B.Tech.	Admissions are centralized based on EAMCET rank, government makes admissions	1200	100
M.Tech	Admissions are centralized based on GATE/PGECET rank, Government makes admissions	87	77
Integrated Masters			
M.Phil.			
Ph.D.			
Integrated Ph.D			
Certificate			
Diploma			
PG Diploma			
Any other (please specify)			

a. For proposing New Courses of B.Tech Civil Engg. & Mechanical Engg. :

- i) Study of seats filled in existing Colleges offering Civil Engineering & Mechanical Engineering gives idea on demand.
- ii) Brand name of the College since the inception occupying 7/8th preferred College by parents among JNTU affiliated Colleges has given confidence to have all seats filled.
- iii) Over the last few years, infrastructure projects, particularly under PPP Scheme have come up in a big way. Few examples are Metro Rail, Ring Roads, Air Ports and Sea Ports, Irrigation Projects, Multi lane national highway particularly in Telangana and Andhra Pradesh have increased demand of Civil & Mechanical Engineers.
- iv) It is noticed that even students having backlogs are taken for jobs due to high demand.
- v) With retirement of many senior Engineers particularly in Civil Engineering lot of vacancies have arisen in Government Sector.
- vi) The above reasons have been a motivation for starting Civil & Mechanical Engineering branches in 2011-12.
- vii) All seats were filled with better rankers from the first batch admitted in 2011-12, for Civil and Mechanical branches also.

b. Reasons for increase in Intake:

Over the last four years the following branches of the College have been sanctioned increase in intake:

ECE	180 to 240 in steps
CSE	180 to 300 in steps
Civil	60 to 120 in steps
Mechanical	60 to 240 in steps

The above increase is preferred for the following reasons:

- i) College Placements have increased in ECE & CSE.
- ii) All seats in the College are getting filled every year with better EAMCET Rankers.
- iii) Jobs in all four branches have increased remarkably both domestically and globally.
- iv) Number of students preferring higher education is increasing year by year.
- v) With 33% reservation in admissions for girl students, number of women students is increasing year by year. In some of the branches many girl students are getting admission on the basis of their individual merit.
- vi) Even with increase in seats in all branches, all the seats are filled every year in this College with improved admission rankers. College has record of all seats being filled in first phase itself since inception maintaining 7th/8th position in order of preference.
- vii) For M.Tech seats, the students joining are a good mixture of GATE and PGECET Rankers.
- viii) All students joining are either from GATE rank or PGECET.
- ix) The strict adherence of College for attendance regulations is sometimes a reason for the seats getting vacated even though all seats are filled in Ist phase for M.Tech.

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

Only one programme M.Tech (Computer Science) with 18 seats was discontinued in 2014-15.

- During 2000-2004 period there was demand from non-Computer B.Tech Graduates also like B.Tech, EEE, Civil etc., to do PG in Computer Courses. Keeping in view the high demand to acquire PG qualification in Computers Science area, cross migration was allowed. Consequently, B.Tech CSE graduates were preferring M.Tech CSE.
- As the Admission eligibility to M.Tech (Computer Science) could be from B.Tech of any branch, seats were getting filled.
- Now the regulations of AICTE have changed resulting in admission to M.Tech (CSE) or M.Tech (CS) are only from candidates with B.Tech in CSE or B.Tech (IT).
- Minimum qualification for post of Assistant Professor is B.Tech&M.Tech in the concerned branch of Engineering. All these have lead to M.Tech (CS) losing its importance as compared to M.Tech (CSE). Hence seats were not getting filled.
- Merit component of candidates joining is reducing yearly.
- From the viability and lack of demand College has proposed for closure of M.Tech (CS) from the year 2014-15 onwards.

2.2. Catering to Student Diversity

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

After the admission list is received from the State Council and reporting of students to the Colleges completed, the differential requirement of students is available and analyzed.

The following are some of the identified requirements.

- i) Language problem: As some students come from rural background and have studied 10+2 in vernacular language.
- ii) Communication problem
- iii) Fundamental concepts not up to the requisite level.
- iv) Financial problems
- v) Background of parents being not high.
- Every Year College organizes Orientation Programme for a week immediately after completion of admissions so that disadvantages of students are overcome and in turn such students gain confidence.
- All teachers handling B.Tech I Year classes are allotted students for Mentoring. The concern teacher maintains a register, covering entire background of students that are at different academic levels.
- Continuous contact with Parents, particularly in irregular cases.
- Feedback and advice of parents is taken which has become useful to improve subsequent year planning. In these meetings, some parents also address and express their views for better performance of their wards.

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

After the admission list is received from the State Council and reporting of students to the College is completed, this differential requirement of students is available and analyzed. The following are some of the identified requirements:

- College has detailed information of ranks of students who have joined the College.
- Before commencement of class work, college issues circular notifying the Mentors for each class allotting 20 students for each mentor
- Mentors maintain a record of all differential requirement of the students

population, noting the place of education, medium, mother tongue, parents education, occupation etc.

- For one week special classes are arranged to counsel the ethics, communication skills, language fluency etc.
- Parents are informed with contact numbers of all concerned I year faculty members.
- Every Saturday is devoted for counseling.
- In laboratory classes as there are three faculty members; time is devoted to understand the individual problems.

2.2.3. Does the College provide bridge /Remedial /add - on courses? If yes, how are they Structured into the time table? Give details of the courses offered, department-Wise/faculty wise?

- The first feedback conducted at the end of four weeks from the commencement of classes gives idea on problems.
- The results of 1st mid examinations also give information about low performing and slow learners. In such cases, College adopts remedial coaching.

a. Remedial Coaching:

For each class, subjects are identified and the number of students who need additional support also is recorded. Concerned teacher undertakes remedial classes, particularly on Saturdays as most of regular classes are not held on Saturdays. Time Table is framed and circulated to students in advance.

Typical Time Table is displayed below: (a sample copy is displayed here)

Department of ECE

Remedial classes held during 2013-14 for B.Tech I year I semester students

DATE	9:15 AM to 10:45 AM	11:00 AM – 12:30 PM
19.10.2013	M-I (Rafiuddin)	EP/ECH R.Kulakarni/A.Venugopal
26.10.2013	PSC (Vanivathsala)	EDP EerendraMalekar
2.11.2013	M-I Y.SreekanthMahadev	EP/ECH S.Bharadwaj/P.Saritha
16.11.2013	EDPG.Mrudula	PSC(Vamshi Vijay Krishna)
23.11.2013	EP/ECH B.Nagalakshmi/G.Nagaraju	M-I (G.SreedharSarma)
30.11.2013	PSC S.Anupkanth	M-I (A. Veena)
7.12.2013	EDP B.Appala Naidu	M-I (D.Srinivas Reddy)
14.12.2013	M-I D.Sankaraiah	EP/ECH (Poornima B. Shetty/Vasavi.B)
21.12.2013	PSC Bhagyasree	EDP (G. Naveen Kumar)
4.1.2014	EDP P.Naveen Kumar	M-I (V.Rama Krishna)
18.1.2014	M-I P.Meenakshi	EP/ECH (V.Sitha Rama Raju/HussainBasha)

Department of ECE**Remedial classes held during 2013-14 for B.Tech II/I Semester year students**

Date	9:15 AM to 10:45 AM	11:00 AM to 12:30 PM
20-07-2013	Signal & Systems (Mr. B. JanardhanRao)	Mathematics-III (Mr. D. Shankaraiah)
27-07-2013	Electronic Devices & Circuits (Mrs. K. A. Jyotsna)	Environmental Sciences (Mrs. A. Rohini)
03-08-2013	Probability Theory & Stochastic Processes (Mr. M. Ashok)	Electric Circuits (Mr. K. KoteswarRao)
17-08-2013	Electric Circuits (Mr. Naveen)	Probability Theory & Stochastic Processes (Mr. P. SrinivasRao)
24-08-2013	Environmental Sciences (Mrs. A. Rohini)	Electronic Devices & Circuits (Mr. L. Manjunath)
31-08-2013	Mathematics-III (Mrs. A. Veena)	Signal & Systems (Mr. S. Sreekanth)
07-09-2013	Electronic Devices & Circuits (Mrs. K. A. Jyotsna)	Environmental Sciences (Mrs. A. Rohini)
21-09-2013	Probability Theory & Stochastic Processes (Mr. M. Ashok)	Electric Circuits (Mr. K. KoteswarRao)
28-09-2013	Electric Circuits (Mr. Naveen)	Probability Theory & Stochastic Processes (Mr. P. SrinivasRao)
05-10-2013	Environmental Sciences (Mrs. A. Rohini)	Electronic Devices & Circuits (Mr. L. Manjunath)
19-10-2013	Mathematics-III (Mrs. A. Veena)	Signal & Systems (Mr. S. Sreekanth)
26-10-2013	Signal & Systems (Mr. B. JanardhanRao)	Mathematics-III (Mr. D. Shankaraiah)

Department of ECE**Remedial Classes held during 2013-14for B.Tech II/II semester year students**

Date	9:15 AM to 10:45 AM	11:00 AM to 12:30 PM
18-01-2014	Pulse & digital circuits (Mr. S.L.Narsimhareddy)	Electromagnetic theory & Transmission lines (Mrs. K.Venkatalakshmi)
01-02-2014	Logical & Switching Theory (Mr. M.Vinodkumareddy)	Control systems (Mrs. G.V.Mahalakshmi)
15-02-2014	Electromagnetic theory & Transmission lines (Mrs. K.Venkatalakshmi)	Pulse & digital circuits (Mr. S.Ravikanth)

22-02-2014	Control systems (Mrs. G.V.Mahalakshmi)	Logical & Switching Theory (MsA.Malleswari)
01-03-2014	Pulse & digital circuits (Mr. S.Ravikanth)	Electromagnetic theory & Transmission lines (DrK.S.Nayanathara)
15-03-2014	Logical & Switching Theory (MsA.Malleswari)	Pulse & digital circuits (Mrs. A.Anitha)
22-03-2014	Electromagnetic theory & Transmission lines (Dr.K.S.Nayanathara)	Pulse & digital circuits (Mrs. A.Anitha)
29-03-2014	Pulse & digital circuits (Mrs. A.Anitha)	Electromagnetic theory & Transmission lines (Mrs. P.Kavitha)
05-04-2014	Logical & Switching Theory (Mrs.S.Sailaja)	Control systems (Mr. M.Ashok)
12-04-2014	Electromagnetic theory & Transmission lines (Mrs. P.Kavitha)	Pulse & digital circuits (Mrs. K.Nagamani)
19-04-2014	Control systems (Mr. M.Ashok)	Logical & Switching Theory (Mrs. K.A.Jyostna)
26-04-2014	Pulse & digital circuits (Mrs. K.Nagamani)	Control systems (M.Ashok)
03-05-2014	Logical & Switching Theory (Mrs. K.A.Jyostna)	Pulse & digital circuits (Mr. S.L.Narsimhareddy)

Department of ECE

Remedial Classes held during 2013-14 for B.TechIII/Isemester year students

Date	9:15 – 10:45 AM	11:00 AM to 12:30 PM
20-07-2013	Analog Communications (AC) (Mr. S.L. Narsimha Reddy)	Managerial Economics & Financial Analysis (Mrs. VanisreeSah)
27-07-2013	Control Systems(CS) (Mrs. G.V.Maha Lakshmi)	Antennas & Wave Propagation(AWP) (Dr. Nayanathara KS)
03-08-2013	. IC Applications (ICA) (Mrs. K. Venkata Lakshmi)	Computer Organisation(CO) (Mrs. Naga Deepthi)
17-08-2013	Computer Organisation(CO) (Mr. D. BhanuPrakash)	. IC Applications (ICA) (Mrs. P. Kavitha)
24-08-2013	Antennas & Wave Propagation (Mr.B. Ravinder)	Control Systems(CS) (Mr. R. Prakash Kumar)
07-09-2013	Managerial Economics & Financial Analysis (MEFA) (Mrs. VanisreeSah)	Analog Communications (AC) (Mrs. T. Padmavathi)

Department of ECE**Remedial classes held during 2013-14 for B.Tech III/II semester year students**

Date	9:15 AM to 10:45 AM	11:00 AM to 12:30 PM
21-12-2013	Digital communication (Mr. B.Ravinder)	Digital signal processing (MrsP.Nagamalleshwari)
20-12-2013	Digital signal processing (Mrs. P.Nagamalleshwari)	Operating systems (MrsK.Nagadeepthi /Mr. K.Bapayya)
04-01-2014	Operating systems (Mrs. K.Nagadeepthi /Mr. K.Bapayya)	Computer networks (Mrs. T.Padmavathi)
18-01-2014	Computer networks (Mrs. T.Padmavathi)	Digital signal processing (Mrs. Ch.Hemalatha)
25-01-2014	Digital signal processing (Mrs. Ch.Hemalatha)	Digital communication (Mrs. HumariaNishat)
01-02-2014	Digital communication (Mrs. HumariaNishat)	Digital signal processing (Mr. S.Sreekanth)
15-02-2014	Digital signal processing (Mr. S.Sreekanth)	Digital communication (Mr. B.Ravinder)

Department of ECE**Remedial classes held during 2013-14 for B.Tech IV/I semester year students**

Date	9:15 AM to 10:45 AM	11:00 AM to 12:30 PM
20-07-2013	Computer Networks (CN) (Mr. Shakeel Ahmed)	Management Science (MS) (Mr.S.S.S. Sarma (H&S Dept.))
27-07-2013	Microwave Engineering (MWE) (Mr. S.L.Narsimha Reddy)	Optical Communications / Embedded Systems (OC/ES) (Mrs. DhruvaRinku /Mr. Abdul Nasar)
03-08-2013	Digital Image Processing (DIP) (Mr. Ravi Shankar Reddy)	VLSI Design (Mrs. V. Sree Lakshmi)
17-08-2013	VLSI Design (Mr.KararHussain)	Digital Image Processing (DIP) (Mr. Ravi Shankar Reddy)
24-08-2013	Optical Communications / Embedded Systems (OC/ES) (Mrs. DhruvaRinku /Mr. Abdul Nasar)	Microwave Engineering (MWE) (Mr. S.L.Narsimha Reddy)
07-09-2013	Management Science (MS) (Mr.P.V.S.H. Sastry(H&S Dept.))	Computer Networks (CN) (Mr. Shakeel Ahmed)

Similar programme schedules are issued every year.

b. Bridge courses:

Bridge courses are essential for most of the students to acquire additional skills. Skill Development programmes, PCB Technologies, Personality Development Programmes are some of the common Bridge Courses. These are mostly offered by Training & Placement Cell and faculty of English. External experts are also involved.

Typical schedule organized is listed below:

The following soft skill training programmes have been organized over the last four years for the benefit of all the final year students of the college.

Programmes Organized:

S. No.	Programme	Period	For the benefit of
1.	Corporate - Soft Skills Training byMohd. SirajuddinJunadi	15 th Sept. 2010 to 28 th Oct. 2010	All Final Year Students
2.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	18 th Sept. 2010	All Final Year Students 2011 - YOP
3.	Persistent Pre Placement Talk	21 st Oct- 2010	All Final Yr Students
4.	TCS Pre Placement Talk	11 th Nov 2010	All Final Year Students
5.	Quant/Apt Training by Career Launcher and Career Conduit	3 rd , 4 th and 5 th December 2010	All Final Year Students
6.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	9th January 2011	All Final Year Students 2011 - YOP
7.	Infosys Campus Connect and Quant/Apt by Career Launcher	April 28 th 2011 to 21 st May 2011	All Final Year Students (21 Days)
8.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	9th July 2011	All Final Year Students 2012 - YOP
9.	Business Etiquette and Corporate Grooming by Sumesh – Infosys Trainer	28 th July 2011	All Final Year Students
10.	Infosys Soft Skills Training by Internal Faculties and Cube G Services	14-08-2011 to 21-08-2011	All Final Year Students
11.	Career Next Program by Career Launcher (GRE,TOFEL,GATE,CAT)	14 th Aug. 2011	All registered students
12.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	9 th January 2012	All Final Year Students 2012 - YOP
13.	PAC Labs Online Practice Test Quant/Apt/Logical/Verbal/Domain	27 th February 2012	All 3 rd Year Students 2013 - YOP
14.	Infosys Spark Program – Students and Faculty	28 th February 2012	2 nd and 3 rd year Students (300 No's)
15.	JKC - Java Faculty Development Program – Java Training by ShanmukhaPriya Trainer from Oracle	27 th February 2012 to 1 st March 2012	College Faculties and 10 other Colleges

16.	IBM TGMC Workshop	03-03-2012	139 Students and 8 Faculty
17.	Infosys Campus Connect and Quant/Apt by Career Launcher	17-05-2012 to 13-06-2012	All Final Year Students – 25 Days of Training
18.	Soft Skills Training by Learning Curve Management Services	2 nd July 2012 to going on	All Final Year Students
19.	Infosys SoftSkill Program by PremPrakashDayal (Infosys)	30 th May 2013	All Third Year Students
20.	Campus Recruitment Training (CRT)	27 th May to 30 th June.	All Third Year Students
21.	Infosys Faculty Enablement Program @ Swarnadhra College Narsapuram	8 th July to 12 th July 2013.	Two Faculty Members (M. Bhanu Mahesh & N. Sateesh)
22.	Microsoft Innovation Center (MIC)	26 th July 2013	All Third Year Students.
23.	Infosys Campus Connect Faculty Excellence Awards 2013	26 th July 2013	Eight Faculty Members.
24.	Alumni Meet	17th August, 2013	Students
25.	A session by Anil Nair	23rd August, 2013	All third year students on CAT / MBA Career opportunities 2015 Pass Outs
26	SAP Techniversity 2013 Seminar – Rahul Sachdev – Manager - Industry Academia Alliance	26th August, 2013	III Year Students (CSE & IT)
27.	FF2H Seminar by PradeepDesu – HR Pocket Gems	10th Sep, 2013	All Final Years 2014 YOP for free training over weekends
28.	Faculty development program on SAP (SaiSpurthi Institute Of Technology)	18th-21st Sep, 2013	N. Sateesh, Asst. Prof.(IT) P.Narsimhulu Asst. Prof.(CSE),S. SambasivaSarma, Assoc. Prof.(MBA)
29.	Anil Nair Session	01st - 02nd Oct, 2013	For B. Tech. & M.Tech. 2014 YOP
30.	HIGH IMPACT Program for the First Years by PremDayal – Soft Skills Trainer Infosys	12th,13th,14th Nov, 2013	for all the First Years creating awareness about Engineering and helping them get focused from first year itself.

31.	Campus Connect, Train The Trainer(TTT) Workshop at Aditya Engineering College - Kakinada ::	27th-29th Nov, 2013	C.V.S. Satyamurthy (CSE) & N. Nagarujna (CSE)
32.	One Day Data science work shop by ITs AP	10th Dec, 2013	
33.	AMCAT Exam	14th Dec, 2013	2014 Pass Outs
34	IBM Pool Campus Drive 2012 & 2013 YOP	10th to 13th Jan 2014	2012 & 2013 YOP
35.	AMAZON On Campus Drive for 2014 YOP (CSE&IT)	15-01-2014	2014 YOP (CSE&IT)
36.	Tech Mahindra On Campus Drive	16-01-2014	Final Year Students
37.	Crypsis Technologies	17-01-2014	Final Year Students
38.	HP Development 2014 & 2013 YOP	19th to 20th Jan 2014	2014 & 2013 YOP
39.	Deloitte Collegiate Cyber Threat Competition — Wave III	21 st Jan 2014	All third year students
40.	CommScope on Campus (CSE,ECE,IT)	21-01-2014	CSE,ECE,IT Final Year Students
41.	Contentera on campus	21-01-2014	Final Year Students
42.	ANGLO EASTERN SHIPPING COMPANY	23-01-2014	Final Year Students
43.	AMAZON On Campus Drive for 2014 YOP (CSE,ITECE,EEE)	07-02-2014	2014 YOP (CSE,ITECE,EEE)
44	GGK Technologies 2014 YOP	05-03-2014	2014 YOP
45	AM Signalling	19-Mar	Final Year Students
46	AMCAT	8th June 2014	Final Year Students
47	ANIL Nair Session B.Tech 2015 YOP	13th August 2014	2015 YOP
48	TCS Pre-Placement talk-2015 YOP	13th August 2014	2015 YOP
49	TCS online Test -2015 YOP	3rd Sept 2014	2015 YOP
50	Guhring (Banglore) HR (Prasanna) Guest Lecture	24th Sep 2014	All Third Year Students
51	Infosys Aspirations 2020 Programming Contest	24th Sep 2014	CSE & IT Third Year Students
52	CommVault On Campus	29th Sept 2014	2015 YOP
53	Infosys Session (First year ECE-A,B,C,D and EEE-A,B)	18th Oct 2014	2015 YOP

54	ADP on Campus	21st Oct 2014	2015 YOP
55	Infosys Session (First year CSE & IT)	25th Oct 2014	First year CSE & IT
56	Open Text online test	3rd Nov 2014	2015 YOP
57	Global Edge 2014 YOP	15th Nov 2014	2014 YOP
58	Broadcom 2015 YOP	15th Nov 2014	2015 YOP
59	UNISYS Drive 2014 & 2015 YOP	16th Nov 2014	2014 & 2015 YOP
60	AMAZON TRMS	2nd & 3rd Dec 2014	2015 YOP
61	TCS Orientation for (TCS Placed students & Third year students)	18th Dec 2014	TCS Placed students & Third year students
62	Mitsubishi Electric India Pvt Ltd MOU	21st Jan 2015	ECE,EEE,EIE Final Year Students
63	TCS Workshop on "Technology Trends - Focus Areas for Students"	17th March 2015	All Final Year Students
64	Virtual Labs Workshop JKC	19th March 2015	All Final Year Students
65	Verizon Online Test (AMCAT) 2015 YOP	27th March 2015	2015 YOP
66	CRT Training -2016 YOP	18th May to 7th June 2015	2016 YOP
67	TCS Workshop on "Employability Skills and Technology Trends" - 2016 YOP	24th July 2015	All Final Year Students
68	CA Workshop CSE&IT 3rd and 4th Year Students	29th July 2015	CSE&IT 3rd and 4th Year Students
69	TCS Webinar on CodeVita - 2016 YOP	30th July 2015	All Final Year Students
70	TCS CodeVita Mock Test	3rd August 215	All Final Year Students
71	Tech Mahindra Team Visit address Students	12th August 2015	All Final Year Students
72	Deloitte Online Test for 2016 YOP (AMCAT - CSE,IT,ECE,EEE,EIE)	14h August 2015	2016 YOP
73	Mock Interviews & Quant Training -2016 YOP	15th & 16th August 2015	2016 YOP
74	TCS Preplacement Talk - 2016 YOP	17h August 2015	2016 YOP

75	Omega TCS Mock Test	19th August 2015	All Final Year Students
76	US Team Visit address the MS Aspiring Students - 2016 YOP	9th Sept 2015	MS Aspiring Students
77	GGK Technologies	16th Oct, 2015	2016 YOP
78	Polaris Workshop -2016 YOP and Second year students	5th Nov 2015	2016 YOP and Second year students
79	ETOUCH - 2015 YOP	14th Nov 2015	2015 YOP
80	TASK AUTOCAD Workshop (Civil & Mech)	30th Nov, 1st & 2nd Dec 2015	Civil & Mech Students
81	TASK-CDAC FDP	2nd Dec 2015	
82	Mphasis Special Training Class	5th & 7th Dec 2015	Final Year Students
83	Persistent Digital Disruption Workshop	18th Dec 2015	CSE & IT Final Year Students
84	TCS –EIS Technova Workshop	22nd Dec 2015	All Final Year Students
85	Unisys Cloud 20/20 V7 - Exclusive Webinar	22nd Dec 2015	CSE & IT Third Year Students
86	Unisys Webnair - CSE & IT Third Year	6th Jan 2016	CSE & IT Third Year Students
87	TCS - Live Webinar on Cyber Security (CSE & IT- 3rd Year Students)	19th Jan 2016	CSE & IT Third Year Students
88	CDAC FUP Program -"Digital System Design using Verilog" Karrar Hussain, Associate Professor from Department of ECE	18th Jan - 22nd Jan 2016	Mr. Karrar Hussain, Associate Professor from Department of ECE
89	TCS -Projects Review	28th & 29th Jan 2016	TCS Selected Students

Keeping the industry expectations in view the college initiated the following activities.

1. CIT (Certification in Information Technology) during 2010-11.

- This program is the brain child of IIIT- Hyderabad under EQUITEC with CVRCE under MoU.
- Faculty member Mr. U. Cnandrashekhar Rao of IT department underwent Two Month training, from 17-5-2010 to 10-7-2010 at IIIT-Hyderabad while staying in IIIT Campus during that program.

2. Video Lecture Presentations

- Video lectures from MIT Open Courseware Lectures, NPTEL, and Googletech talks are presented to students.
- Video lectures on java developed by Stanford University are presented to B.TechII year students.

3. ADOBE FLEX Certificate Training Programme:

- 11 students of the IT branch attended Adobeflex workshop organized by the Adobe Team on 4th and 5th March, 2011 and all of them have received certificates.

4. IUCEE Webinars

- The Indo US Collaboration for Engineering Education (IUCEE) program was conceptualized by engineering education and businesses from US and India in 2007 to help create good quality engineering talent in order to find solutions to the global challenges.
- CVRCE have registered for different Webinar courses offered by IUCEE virtual academy. Faculty and students have attended the webinars and interacted with resource persons.
- College has paid a fee of \$500 per subject to IUCEE.

5. Campus Connect (in collaboration with Infosys)

- Campus Connect comprises 5 modules namely ICS, OS, PST, P&T and RDBMS. Upon undergoing these modules students take two online exams one at the end of 3 module and the other at the end of 5th module. This exam is set by the JKC, and conducted by CVR College. After successfully completing these tests (with minimum 60% aggregate) students carry out-Integrated Development Project and Submit it to Infosys. The students get a Certificate from Infosys after covering these Modules.
- So far 8 batches have undergone this training and 480 students have received Certificates.

Year	No.of students trained	No.of students certified
2011-12	552	456
2012-13	497	497
2013-14	433	380
2014-15	553	444
2015-26	240(CSE & IT)	On going

2.2.4. Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

The following direct assessment tools are helpful to identify the incremental academic growth in addition to societal, economic, physically challenged section of students.

- i) Internal examination performance
- ii) End examination
- iii) Attendance
- iv) Exhibiting lab skills
- v) Interaction with teacher in submitting assignments.

For such section of students the following remedial steps have been yielding good results:

- i) Remedial coaching in tough chapters
- ii) Additional lab sessions
- iii) Individual attention in lectures and Lab sessions
- iv) Interaction with parents

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

- The performance in the examination, regularity in attendance, interaction with faculty, participation in group discussion help to identify advanced learners.
- They exhibit talent of innovation, aptitude to advance knowledge in latest technologies etc.

The following support methods are provided.

- i) Special training programmes are organized
- ii) Encouragement to do Mini Projects, Develop and Design Projects etc.
- iii) Allowing Senior Teachers to guide them in the areas of their interest.
- iv) Encourage them to present Technical Papers in Conferences.
- v) Internship in Industry
- vi) Guiding them to take competitive examinations like GATE.

Some of the advanced learners receive awards.

The following is the typical list of some students who received awards under different categories:

1. Ms. M. ASWINI (R. No: 07B81AO418 and Aggregate 86.31%) received **Late Prof. P Narasimha Reddy Gold Medal** for the best girl student with highest aggregate in B.TECH among all branches of CVR College of Engineering.
2. Ms. S INDUPRIYA REDDY (R. No: 07B81A0432 and Aggregate 86.31%) received **Late Sri. M Madan Mohan Gold Medal** for the student scoring the highest aggregate in B.TECH among all branches.
3. Ms. G SREEJA (R.No:08B81A04A1) **Late Prof. P Narasimha Reddy Gold Medal** for the best girl student with highest aggregate in B.TECH among all branches.
4. Ms. G SREEJA (R.No:08B81A04A1)**Late Sri. M Madan Mohan Gold Medal** for the student scoring the highest aggregate in B.TECH among all branches.
5. Mr. Harsh H Shah (05B81A0529) received **three Gold Medals** from JNTUH,
 - Best outgoing Student of CSE for the year 2009, out of all JNTUH Affiliated Colleges.
 - Late Prof. G.Purushotham Memorial medal for highest marks in mathematics
 - Dr. Md.VizarathRassol Khan Endowment Medal for 1st Rank in B.Tech.
6. Cash Award for the best B.Tech Project in CSE Ms. M. Kalyani (10B81A0533), Ms. D. Omika (10B81A0550) at College level.
7. Cash award to the toppers of each branch other than those who won Gold Medals. Rs.6, 000/- Ms. GampaKavya(10B81A0535).
8. V. Harini, (12B81A0227) selected for internship at IIT Bombay during the summer of 2014
9. P.Sai Lakshmi Srivani-09B81A1035- secured GOLD MEDEL ,first rank in entire state IN EIE Department-jntuh- Sep,2014
10. T. SreeCharan Reddy-12B81A1049- Global Entrepreneurship summit- IIT Kharagpur- Jan 10th and 12th ,2014
11. Mr. SaiKiranChavali got gold medal for Best Project in the year 2012.
12. Miss. GopikaPoornima got gold medal for best student in the year 2013.
- 13.JAYASHREE SAHU(11B81A1018) was awarded **Late Prof. P. NarsimhaReddyGold Medal** for the best Girlstudent scoring highest aggregatemarks in B.Tech among all thebranches. On the Graduation day held in 2015.
14. P.Susmitha (11B81A04F7) was awarded **Late Sri. M. Madan Mohan GoldMedal** for the student scoring theHighest aggregate in B.Tech (ECE) On the Graduation day held in 2015.
- 15.Sandeep Reddy V(11B81A1272), AkarapuSisirdth(1B81A1286)SiripuramVikram(11B81A12B5) were awarded **CVR**

College of Engineering Gold Medal for the best project among of all branches of B.Tech On the Graduation day held in 2015.

16. S. NIHALLIPAL REDDY(11B81A0465),D. PRAVALIKA(11B81A0481),A.V. SANTHOSH KUMAR(11B81A04B6) were awarded **Cash Award** for the best B.Tech project in the **subject of VLSI Design** in memory of Late Prof. RVB Chary . Rs. 6,000/- On the Graduation day held in 2015
- 17.K. ANKITHA(11B81A0105), CH. PRAVEEN(11B81A0129), P. SAIPRASAD(11B81A0135),R. MANISHA, 11B81A0539,R. NAGALAKSHMI SRAVYA, 11B81A0544,P. NEETHA REDDY, 11B81A0548,K. ASHOK, 11B81A0418,U.BHARADWAJ, 11B81A0422,D.B. MANIKANTA, 11B81A0455,K. KEDARNATH , 11B81A0232,A. GUNASHEKAR REDDY,11B81A0223,BHAVANA DESHAM, 11B81A0213,JAYASHREE SAHU , 11B81A1018, YELESWARAPU SRIYA, 11B81A1046,SRUTI PAPPALA, 11B81A1048, ASHISH R FRANCIS, 11B81A1214,T. KARTHIK, 11B81A1226,B.R. RISHINDER KUMAR, 11B81A1259,A S S GANESH, 11B81A0312,D V RISHNA, 11B81A0356,N. JITENDRA, 11B81A0314,B. DURGA PRASAD, 11B81A0311 were awarded **Cash Award** for the best B.Tech project **in each of the branches**. Rs. 6,000/- on the Graduation day held in 2015
18. P. SAI PRASAD, 11B81A0135,NAMPALLY RAJATH GUPTA,11B81A0326, PEDDI SHIVA KUMAR, 11B81A04C2,PASHAM NEETHA REDDY , 11B81A0548,YELESWARAPU SRIYA, 11B81A1046,PRATYUSHA REDDY, 11B81A1251 were awarded **Cash award to the toppers** of each Branch other than those who won Gold Medals. Rs. 6000/- on the Graduation day held in 2015

2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

There are good policies to meet the needs of differently abled students:

- i) Admission is made by Government allotting a certain percentage of reservation according to the degree of disablement.
- ii) In examinations scribe facility is given on application by the student, following the Government/University rules.
- iii) Additional time is allotted for such categories in the examinations, as per rules.
- iv) Classes are arranged in ground floor and in building having lift facilities
- v) Assistance is given for their movement by providing wheel chair, human assistance.
- vi) Separate seating arrangement is made in class rooms for easy mobility.
- vii) Peer groups are identified. Additional support material like books are provided for their welfare.
- viii) All Government Rules/University Orders are strictly followed.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

College inculcates in its students, the discipline of maintaining on time for class work. There is a protocol followed in college that once the teacher goes in to class room no students can enter late. In that process academic calendar, teaching plan are strictly followed by every teacher.

Academic Plan: Even though College is an Autonomous College, the commencement date of I year class work as announced by the Government/University is followed by the College, since it is linked officially with closing of admissions.

Dean-Academics of the College will finalize the Academic Calender for B.Tech from I year to IV year after discussing with the Principal and Vice Principal. The Academic Calender normally may be same from II year to IV year. However I year will be invariably different as it depends on closing of admissions. Draft Academic Calender is discussed in the meeting of Heads of Departments and that will be final. It contains dates for commencement of class work, instructional weeks before 1st Mid, 1st Mid duration, 2nd spell of instructions, 2nd Mid duration followed by preparation holidays, practical examination duration and end examination duration.

The calendar, that is finalized will be strictly followed by all the departments.
Academic Calendar for B.Tech. 1st year – I semester for the academic year 2014-15(as an example)

I-Semester :

Sl. No.	Event	Period	Duration
1	Submission of Allotment letter / certificates, Induction Programme, & Commencement of Class work & Allotment of Sections	1.9.2014 to 14.9.2014	2 weeks
2	Continuation of Instruction	15.9.2014 to 8.11.2014	8 weeks
3	<u>I Mid Examinations</u> - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	10.11.2014 to 12.11.2014	3 days
4	2 nd Spell of Instruction	13.11.2014 to 7.1.2015	8 weeks
5	<u>II Mid Examinations</u> - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	8.1.2015 to 10.1.2015	3 days
6	Preparation & Practical Examinations	11.1.2015 to 26.1.2015	2 weeks
7	Substitution Tests	22.1.2015 to 24.1.2015	3 days
8	End Semester Examinations (Main)	27.1.2015 to 6.2.2015	2 weeks
9	Commencement of Class work for II Sem.	9.2.2015	

II-Semester

Sl. No.	Event	Period	Duration
1	Commencement of class work	9.2.2015	
2	1 st Spell of Instruction	9.2.2015 to 4.4.2015	8 weeks
3	<u>I Mid Examinations</u> - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	6.4.2015 to 8.4.2015	3 days
4	2 nd Spell of Instruction	9.4.2015 to 3.6.2015	8 weeks
5	<u>II Mid Examinations</u> - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	4.6.2015 to 6.6.2015	3 days
6	Preparations & Practical Examinations	7.6.2015 to 21.6.2015	2 weeks
7	Substitution Tests	18.6.2015 to 20.6.2015	3 days
8	End Semester Examinations (Main)	22.6.2015 to 3.7.2015	2 weeks

9	Vacation	4.7.2015 to 12.7.2015	1 week
10	Commencement of class work for the 2 nd year I-Sem. Academic Year 2015-16	13.7.2015	

Academic Calendar for B.Tech. 2nd Year – I & II semester for the academic year 2014-15
I Semester

Event	Period	Duration
Commencement of class work	4.8.2014	
I Spell of Instructions	4.8.2014 to 27.9.2014	8 weeks
I Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	29.9.2014 to 1.10.2014	3 days
Dussehra Holidays	2.10.2014 to 8.10.2014	7 days
II Spell of Instructions	9.10.2014 to 3.12.2014	8 weeks
II Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	4.12.2014 to 6.12.2014	3 days
Preparations & Practical Examinations	7.12.2014 to 21.12.2014	2 weeks
Substitution Tests	18.12.2014 to 20.12.2014	3 days
End semester examinations (Main)	22.12.2014 to 2.1.2015	2 weeks
Commencement of class work for II Sem. for the Academic Year 2014-15	5.1.2015	

II Semester

Event	Period	Duration
Commencement of class work	5.1.2015	
I Spell of Instructions	5.1.2015 to 28.2.2015	8 weeks
I Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	2.3.2015 to 4.3.2015	3 days
II Spell of Instructions	5.3.2015 to 29.4.2015	8 weeks
II Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	30.04.2015 to 2.5.2015	3 days
Preparations & Practical Examinations	3.5.2015 to 16.5.2015	2 weeks
Substitution Tests	14.5.2015 to 16.5.2015	3 days
End semester examinations (Main)	18.5.2015 to 29.5.2015	2 weeks
Summer Vacation	30.5.2015 to 20.6.2015	3 weeks
Commencement of class work for the 3 rd year I-Sem. Academic Year 2015-16	22.6.2015	

Academic Calendar for B.Tech. 3rd & 4th Year – I & II Sem. for the academic year
I Semester

Event	Period	Duration
Commencement of class work	30.06.2014	
I Spell of Instructions	30.06.14 to 23.8.14	8 weeks
I Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	25.8.14 to 27.8.14	3 days

II Spell of Instructions	28.8.14 to 1.10.14	5 weeks
Dussehra Holidays	2.10.14 to 8.10.14	7 days
Continuation of II Spell of Instructions	9.10.14 to 29.10.14	3 weeks
II Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	30.10.14 to 1.11.14	3 days
Preparations & Practical Examinations	2.11.14 to 15.11.14	2 weeks
Substitution Tests	13.11.14 to 15.11.14	3 days
End semester examinations	17.11.14 to 28.11.14	2 weeks
Supplementary Examinations	29.11.14 to 6.12.14	1 week
Commencement of class work for II Sem. for the Academic Year 2014-15	8.12.2014	

II Semester

Event	Period	Duration
Commencement of class work	8.12.2014	
I Spell of Instructions	8.12.14 to 10.1.15	5 weeks
Pongal Holidays	11.1.15 to 18.1.15	1 week
Continuation of I Spell of Instructions	19.1.15 to 7.2.15	3 weeks
I Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	9.2.15 to 11.2.15	3 days
II Spell of Instructions	12.2.15 to 8.4.15	8 weeks
II Mid Examinations - Timings: 10.00 a.m. to 12.00 Noon (Forenoon session) 2.00 pm. To 4.00 p.m. (Afternoon session)	9.4.15 to 11.4.15	3 days
Preparations & Practical Examinations	11.4.15 to 25.4.15	2 weeks
Substitution Tests	23.4.15 to 25.4.15	3 days
End semester examinations	27.4.15 to 8.5.15	2 weeks
Supplementary Examinations	9.5.15 to 16.5.15	1 week
Summer Vacation	17.5.15 to 20.6.15	5 weeks
Commencement of class work for the 4 th year I-Sem. Academic Year 2015-16	22.6.2015	

The Academic Calendar for M.Tech. I & II semester for the academic year **2014-15** is as given below:

I-Semester

Sl. No.	Event	Period	Duration in weeks
1	Report & Orientation Programme	17.11.2014	
2	1 st Spell of Instructions	24.11.2014 to 17.1.2015	8 weeks
3	1 st Mid Term Examination	19.1.15 to 24.1.2015	1 week
4	2 nd Spell of Instructions	27.1.2015 to 20.3.2015	8 weeks
5	2 nd Mid Term Examination	23.3.2015 to 28.3.2015	1 week
6	Preparation & Practical Examinations	29.3.2015 to 12.4.2015	2 weeks
7	Substitution Tests	6.4.2015 to 8.4.2015	3 days
8	End Semester Examinations (Main) & Supplementary Exams of 2nd semester	13.4.2015 to 25.4.2015	2 weeks
9	End Semester Vacation	26.4.2015 to 3.5.2015	1 week
10	Commencement of Class work for II Sem. For the Academic year 2012-13.	4.5.2015	

II-Semester

Sl. No.	Event	Period	Duration in weeks
1	Commencement of class-work	4.5.2015	
2	1 st Spell of Instruction	4.5.2015 to 30.5.2015	4 weeks
3	Mid-Semester Break (Vacation of College)	1.6.2015 to 21.6.2015	3 weeks
4	Continuation of 1 st Spell of Instructions	22.6.2015 to 18.7.2015	4 weeks
5	1 st Mid Term Examination	20.7.2015 to 25.7.2015	1 week
6	2 nd Spell of Instruction	27.7.2015 to 19.9.2015	8 weeks
7	2 nd Mid Term Examination	21.9.2015 to 26.9.2015	1 week
8	Preparation & Practical Examinations	27.9.2015 to 10.10.2015	2 weeks
9	Substitution Tests	5.10.2015 to 7.10.2015	3 days
10	End Semester Examination (Main) & Supplementary of 1 st semester	12.10.2015 to 24.10.2015	2 weeks



Cherabuddi Education Society's CVR COLLEGE OF ENGINEERING

(An Autonomous Institution)

ACCREDITED BY NATIONAL BOARD OF ACCREDITATION, AICTE

(Approved by AICTE & Govt. of Andhra Pradesh and Affiliated to JNT University)

Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District, PIN - 501 510

Web : <http://cvr.ac.in>, email : info@cvr.ac.in

Ph : 08414 - 252222, 252369, Office Telefax : 252396, Principal : 252396 (O)

Dt: 08.09.2015

The Academic Calendar for M.Tech. I & II semester for the academic year **2015-16** is as given below:

I-Semester			
Sl. No.	Event	Period	Duration in weeks
1	Report & Orientation Programme	14.09.2015	
2	1 st Spell of Instructions	14.09.2015 to 17.10.2015	5 weeks
3	Dussehra Holidays	18.10.2015 to 25.10.2015	8 days
4	Continuation of 1 st Spell of Instructions	26.10.2015 to 14.11.2015	3 weeks
5	1 st Mid Term Examination	15.11.2015 to 21.11.2015	1 week
6	2 nd Spell of Instructions	23.11.2015 to 16.01.2016	8 weeks
7	2 nd Mid Term Examination	18.01.2016 to 23.01.2016	1 week
8	Preparation & Practical Examinations	25.01.2016 to 06.02.2016	2 weeks
9	Substitution Tests	03.02.2016 to 05.02.2016	3 days
10	End Semester Examinations (Main) & Supplementary Exams of 2nd semester	08.02.2016 to 20.02.2016	2 weeks
11	End Semester Vacation	22.02.2016 to 27.02.2016	1 week
12	Commencement of Class work for II Sem. for the Academic year 2015-16.	29.02.2016	
II-Semester			
1	Commencement of class-work	29.02.2016	
2	1 st Spell of Instruction	29.02.2016 to 23.04.2016	8 weeks
3	1 st Mid Term Examination	25.04.2016 to 30.04.2016	1 week
4	2 nd Spell of Instruction	02.05.2016 to 21.05.2016	3 weeks
5	Summer vacation	22.05.2016 to 18.06.2016	4 weeks
6	Continuation of 2 nd Spell of Instructions	20.06.2016 to 23.07.2016	5 weeks
7	2 nd Mid Term Examination	25.07.2016 to 30.07.2016	1 week
8	Preparation & Practical Examinations	01.08.2016 to 13.08.2016	2 weeks
9	Substitution Tests	10.08.2016 to 12.08.2016	3 days
10	End Semester Examination (Main) & Supplementary of 1 st semester	17.08.2016 to 30.08.2016	2 weeks

III-Semester

Seminar Dates

IV-Semester

Thesis Submission duration

Will be announced later

Note: Students are required to take both the mid-exams. Average of the two exams will be the internal marks of each subject. Such of the students who are unable to take the scheduled mid-exam and have taken prior written permission of the concerned HoD can take the substitution test covering the entire syllabus of the subject on payment of the prescribed fee.

Students who are absent for a mid-exam and have not taken prior written permission from the HoD will have to pay a fine of Rs. 1000/- (Rupees One thousand only) per subject and the prescribed fee for taking the substitution test.

The Internal Marks of students who absent themselves from both the mid-exams and have taken only the substitution test will be half the marks scored in the substitution test taken by them.

[Signature]
Dean-Academics

[Signature]
Principal

Copy to:

Director, Principal & Vice-Principal
All Deans & HoDs - CE / CSE / ECE / EEE
Controller of Examination, Asst. CoEs (1&2) & A.R. Exam Branch
A.O., A.R., Library, Placement Office & M.Tech.-Coordinators
Adviser & Chairman - for Information
Manager (City Office)

City Office : # 201 & 202, Ashoka Scintilla, Opp. KFC, Himayathnagar, Hyderabad - 500 029, Telangana.
Phone : 040 - 42204001, 42204002, 9391000791, 9177887273

Hyderabad Official Academic Calendar 2015-16
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Teaching Plan:

Course files: Before the commencement of every semester, Principal issues a circular to prepare Course files and keep the printed booklet ready as course file. Course file contains Course Structure of the semester, each subject wise syllabus, teaching plan as weekly schedule of coverage of syllabus, model question paper and old question papers and problems as exercise. For all subjects of that semester the books are prepared in print form. Course file is given to every student in advance. This system of preparing course file is in practice from the inception of the college. For each subject, the objective of reading, its course outcomes, PEO and PO are also printed for ready knowledge to student.

- Evaluation Blue Print: At the beginning of the year students are supplied with Academic Regulations, Syllabus etc., as printed booklets. Students have to preserve them.
- Examination schedule for mid and end semester examinations including practicals is announced by the Principal/Controller of Examinations.
- Being Autonomous College, full transparency is maintained to show the mid examination answer books for any clarifications and comments. The final mid term examination marks are then sent to Exam Branch, through the concerned Head.

With this procedure, the student is aware of the topic being covered weekly and his level of preparation for examination. If he has missed one examination, only one substitute test is conducted for entire syllabus so that there is scope to make up if test is missed under unavoidable conditions. This is allowed only on prior intimation by student and payment of additional fee.

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

The College provides course file to every student as a printed booklet for each semester of every branch.

- The course file has course structure, syllabus for each subject, schedule of coverage of syllabus for 16 weeks, model question paper, typical quiz questions and previous examination question papers
- This is supplied on the day of commencement of class work
- Student will have knowledge of the topics being covered every week
- At the end of every month, the Heads of the respective Departments will have review of syllabus coverage
- Dean-Academics reviews coverage of syllabus in all the Departments to ensure that the overall programme is conducted as planned.

Effectiveness of the Process:

- This will help to have control on syllabus coverage as per time schedule
- Any student missing any of the classes can understand the topics he has to make up
- Teacher can reschedule the syllabus due to any dislocation in work
- Conducting mid term examination, submission of assignments can be maintained as per calendar
- Teacher has better role to give necessary guidance in the tutorial periods by paying individual attention.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

For all theory subjects, lecture method is by class room teaching. Conventional teaching with chalk, usage of over head projector (OHP) is adopted. Every class room has OHP and LCD fixed. Teacher, depending on the type of topic to be delivered makes use of them. Majority of the subjects have one tutorial period/week. Two staff members are allotted to each class for tutorial. It is an interactive session type of class, with individual attention.

All Laboratory classes are conducted with group of students for each experiment. The group will have 2 or 3 students in Departments like Civil and Mechanical. For Departments of CSE, IT and ECE the experiments are conducted on 1:1 basis. The learning experience in labs is mostly based on motivated learning and individual interactive type.

- In addition students have to get exposed to Home assignment in every subject which also carries marks
- Further there are compulsory subjects like Seminar, Industry Oriented Mini Project and Major Project work. All these have individual interactive nature of work, inviting innovative or special talent oriented works
- Students are encouraged to participate and present technical papers in the conferences held in our College particularly CIENCIA and at other colleges which need other methods of learning experience like reading IEEE journals, e-journals, Open source material, access to digital library etc.
- Students receiving prizes in conferences depend on self learning, learning topics beyond syllabus as learning experiences. Many students from the College are active in these areas
- College has a consistent record of at least 120 students going abroad for higher studies. All these students exhibit high self learning talents

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

The present day student has plans of reaching high levels in career. That makes an attitude of learning on his own over and above the curriculum.

- Student Centric learning comes into picture due to his ambitions **Faculty are eager to guide in many student centric activities like:**
- Seminar presentation by student
- Industry oriented Mini Project
- Major Project in latest technology
- Internet exposure
- Model making and innovative approach
- Internship with Industry
- Such exposures create confidence to student to improve student learning and knowledge management.
- Faculty feel happy to associate with such fast learners. Even if 30 to 40% are in that category, such students and faculty get immense satisfaction.
- Many students of this college publish technical papers. They also show leadership qualities in organizing mega activity like CIENCIA, a two day National Technical Festival.
- About 120 students going abroad every year is an indication of holistic approach and a spirit of lifelong learning.

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?

- College has a strong policy of inviting experts from National Institutes, Industry, Universities etc., to deliver lectures for the benefit of staff and students
- Each Department has a policy of at least 3 guest lectures, one seminar and student level activity in each semester
- Typical list of guest lectures organized recently is available at item 2.4.8.

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

- Teachers concentrate on core technologies as per syllabus which the students have to learn
- In addition to standard text books, the teachers also refer to following latest technologies.
 - i) Video lectures
 - ii) Internet based information
 - iii) Digital library facility
 - iv) e-journals and e text books
 - v) NPTEL videos
 - vi) Proceedings of IEEE, ASME, ASCE etc.
 - vii) Virtual Labs Initiative of MHRD

Faculty to get familiarity with their respective software like:

- Every Department has a seminar hall with LCD projector
- Every staff room has Computer with Internet facility
- There are 57 staff members working for their Ph.D degree and they are active with all these sources of information.

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

YES.

Each class has three Mentors/Counselors with 20 students allotted to each staff member. These members maintain a record/diary with all personal details, contact details etc., of students allotted to them. Saturdays are normally preferred for counseling and discussing personal problems. I year students are closely monitored by a Professor designated to guide and counsel the students

Circular for the list of Mentors is prepared before the commencement of class work and communicated as well as displayed in notice boards.

Typical circulars are recorded hereunder for information:-

- With intention of shaping the careers of students mentoring of various types is provided.
- Placement Cell provides guidance and constant support for career advancement and professional development through regular training sessions, contact programs and, interaction with alumni, when the students are in III/IV year B.Tech.
- The lab sessions involve at least 3 faculty members and 3 programmers. Each faculty member is assigned 20 students to monitor and evaluate the student development. Every Student is evaluated weekly and progress is profiled. This practice ensures one to one interaction and also meets the core objectives of the lab.

- The faculty makes use of tutorial hour to address the specific needs and problems of students related to understanding the core concepts, relevance and their application. It also involves discussion on topics beyond the syllabus. Mentoring classes are held frequently, particularly, for the B.Tech. 1st Year students.
- 1 year students may come with rural background, different medium of instruction, social status which have a bearing on progress of the students. Such students are identified and taken care as part of the mentoring process.
- Each section/division has 60 students. A list of mentors with contact numbers is prepared in the beginning of the semester and distributed to the students.
- An Orientation Programme is held for students of B.Tech I year where HR Experts from Industries like Infosys are invited to address the students about career opportunities, goals and challenges. This helps to remove apprehensions in their minds.
- Every staff member called “mentor”, maintains a register that contains information of each students’ personal data. The details of every counseling with the student are recorded in that page in order to review the improvement by next mentoring period.
- For 1st year, counseling frequency is 4 – 5 times in the semester and for 2nd, 3rd and 4th years, it is 2 to 3 times / semester. Also, students are encouraged to meet the mentors individually.

List of Class Teachers and Mentors for B.Tech I Year/ I Sem.
(a sample copy is displayed here)

Section	Class Teacher	Mentors
ECE-A	Ms. Bhawani Balasubramaniam	Mrs. K. BhanuRekha
		M. Ramesh
ECE-B	Dr.S. Bharadwaj	Dr. B. Nagalakshmi
		Ms. P. Saritha
ECE-C	Ms. RichaDheer	Mr. S. Anoopkanth
		Mr. M. Naveen Kumar
ECE-D	Dr. N. Aravinda	Mrs. B. Sucharitha
		Mr. R. Tirumala
EEE-A	Dr.Rafiuddin	Mr. Harold Candlin Cyril
		Mr. Samuel. C
EEE-B	Mr.G. Mallikarjun Reddy	Mrs. Poornima B. Shetty
		Mr. G. Nagaraju
MECHANICAL-A	Mrs.VanithaSingireddy	Mrs. M. Uma Sundari
		Mr. Ravindra Kumar
MECHANICAL-B	Mr. RaghavendraKulkarni	Mrs. G. Mrudula
		Mrs. JyothiKiranmai
CSE-A	Mrs.A.VaniVathsala	Mr. V. Dhattatreya
		Mr. C. Ramesh
CSE-B	Mr.N.Satyanarayana	Mr. Vamshi Vijay Krishna
		Mr. M.A.S.R.Abhilash
CSE-C	Mrs.S.SugunaMallika	Mr. B. Appala Naidu
		Mr. D. Shankaraiah
CSE-D	Mrs.KalavathiMallaiah	Mr. D. Sreenivas
		Mr. D. Subramanyam
IT-A	Mrs. E. JyothiKiranmai	Mr. R. GauthamGoud
		Mr. P. Sai Shankar
IT-B	Mrs.H.N.Laxmi	Mr. B. Vittal
		Mrs. Vasavi.B

CIVIL-A	Mrs A. Veena	Mr. Sheik Ahammed
		Mr. P. Bhadraiah
CIVIL-B	Mr.Y.SrikanthMahadev	Mr. G. Bharath Reddy
		Mrs. Vanivasthsala
EIE	Mr.A.Venugopal	Mrs. V. Sucharitha
		Mr. Chandra Shekar

List of Class Teachers and Mentors for B.Tech I Year II Sem

Section	Class Teacher	Mentor
ECE-A	Ms. M.Rajasree	Ms. B. Bhawani
		Mrs. K. Bhanurekha
ECE-B	Ms. P. Saritha	Mr. N. HussainBasha
		Mr. Vamshi Vijay Krishna
ECE-C	Mr. V . Ramakrishna	Mr. Samuel. C
		Mr. Harold Candlin Cyril
ECE-D	Mrs. P. Meenakshi	Dr. Seetha Rama Raju
		Mr. Ravindra Kumar
EEE-A	Dr.Rafiuddin	Ms. VanithaSinigireddy
		Mr. P. NarasimhaRaju
EEE-B	Mr.I. N. Swamy	Mr. M. Ramesh
		Mrs. VaniVathsala
MECHANICAL-A	Mr.A.Venugopal	Mr. G. Nagaraju
		Mr. R. SubbaRao
MECHANICAL-B	Ms. B. Vasavi	Mr. R. Tirumala
		Mr. R. GauthamGoud
CSE-A	Mr. L. Venkateshwarlu	Mr. B. Vittal
		Mrs. Bagya Sri
CSE-B	Mr.N.Satyanarayana	Mrs. G. Mrudula
		Mr. M. Naveen Kumar
CSE-C	Mrs.S.SugunaMallika	Mr. M.A.S.R.Abhilash
		Mrs. Jyothikiranmai
CSE-D	Ms. SunithaMaddi	Dr. B. Nagalakshmi
		Mr. Y. SrikanthMahadev
IT-A	Mr. Vamshi Vijay Krishna	Ms. KalavathiMallaiah
		Mr. K. Suman
IT-B	Ms. Priyanka Gupta	Mrs. Ch. Sharada
		Mrs. M. Uma Sundari
CIVIL-A	Mr. G. Mallikarjun Reddy	Mrs. P. Meenakshi
		Mr. V. Dattatreya
CIVIL-B	Mrs.M.GayathriVineela	Mrs. Uma Radha
		Mrs. GayathriVineela
EIE	Mr. Sheik Ahammed	Mrs. H.N. Lakshmi
		Mr. D. Sujan Kumar
I Year Counselling In-Charge		9391011553
Prof. E. NarsimhaCharyulu		
Overall Counselling Head: Prof. L.C. Siva Reddy		9885806151
Principal: Dr. (Mrs.) K.S.Nayanathara		950235871

II year B.Tech/I sem. (Class Teachers and Mentors)					
Section	Class Teacher	Mobile Number	Mentors	Mentor's Mobile No.	Roll Number
CSE-A	Mr.V.Krishnaiah	8106202404	Mrs.A.VaniVathsala	9866586106	12B81A0501
					to
					12B81A0521
			Mr.Hanimi Reddy	9491869509	12B81A0522
					to
					12B81A0541
			Mrs.G.Swetha	9848432359	12B81A0542
					to
					12B81A0560
CSE-B	Mrs.N.Vanaja	9293322258	Mr.Satyanarayana	9000439636	12B81A0562
					to
					12B81A0582
			Mrs.Ch.Sarada	9948904610	12B81A0583
					to
					12B81A05A2
			Mrs.N.Vanaja	9293322258	12B81A05A3
					to
					12B81A05C0, 11B81A0565
CSE-C	Mr.D.Bheekya	8985411805	Mrs.Ch.Sarada	9948904610	12B81A05C1
					to
					12B81A05E1
			Mrs.Priti Patel	9949688704	12B81A05E2
					to
					12B81A05G1
			Mr.Hanimi Reddy	9491869509	12B81A05G2
					to
					12B81A05J0, 11B81A0559, 13B88A0501
II YEAR COUNSELING IN-CHARGE:					
Mrs. A. VaniVathsala					
OVERALL COUNSELING HEAD :			9885806151		
Prof. L.C.Siva Reddy, Vice Principal					
PRINCIPAL:			9502335871		
Dr.(Mrs.) K.S.Nayanathara					

II year B.Tech/II sem. (Class Teachers and Mentors) 2013-2014					
Section	Class Teacher	Mobile Number	Mentors	Mentor’s cell Number	Roll Number
CSE-A	Mr.S.Afroz	9700536534	Mr.M.Hanimi Reddy	9491869509	12B81A050 to 12B81A0521
			Mrs.N.Vanaja	9293322258	12B81A0522 to 12B81A0541
			Mr.Y.Narasimha Reddy	9885218488	12B81A0542 to 12B81A0560
CSE-B	Mr.K.Venkateshwar Rao	9493809566	Mr.R.L.Swamy	9573323418	12B81A0562 To 12B81A0582
			Mr.L.Venkateshwarlu	9441226277	12B81A0583 To 12B81A05A2
			Mr.Satyanarayana	9000439636	12B81A05A3 to 12B81A05C0, 11B81A0565
CSE-C	Mr.N.Nagarjuna	9440004476	Mr.D.Sujan Kumar	9849142914	12B81A05C1 To 12B81A05E1
			Mr.N.Nagarjuna	9440004476	12B81A05E2 To 05G1
			Mrs.G.Swetha	9491869509	12B81A05G2 to 12B81A05J0, 11B81A0559, 13B88A0501
II YEAR COUNSELING IN-CHARGE: Mrs.A.VaniVathsala					
OVERALL COUNSELING HEAD : Prof. L.C.Siva Reddy, Vice Principal			9885806151		
PRINCIPAL: Dr.(Mrs.) K.S.Nayanathara			9502335871		

III year B.Tech/I sem. (Class Teachers and Mentors) 2013-2014					
Section	Class Teacher	Mobile Number	Mentors	Mentor's Mobile Number	Roll Number
CSE-A	Mr.S.M.Ali	903751835	Mr.S.Afroz	970053654	11B81A0501 to 11B81A0523
			Mr.B.RamBabu	929066665	11B81A0524 to 11B81A0543
			Mr.K.VenkateswaraRao	949380956	11B81A0544 to 11B81A0561
CSE-B	Mr.M.Rameh	970012343	Mr.S.Afroz	970053654	11B81A0562 To 11B81A0582
			Mrs.S.SugunaMallika	900051644	11B81A0583 To 11B81A054
			Mr.L.Venkateswarlu	9441226277	11B81A055 To 11B81A052
III YEAR COUNSELING IN-CHARGE: Mr.C.V.S.Satyamurthy			9849187776		
OVERALL COUNSELING HEAD : Prof. L.C.Siva Reddy, Vice Principal			9885806151		
PRINCIPAL: Dr.(Mrs.) K.S.Navanathara			9502335871		

III year B.Tech/II sem. (Class Teachers and Mentors) 2013-2014					
Section	Class Teacher	Mobile Number	Mentors	Mentor's Mobile Number	Roll Number
CSE-A	Mr.S.Afroz	9700536534	Mr.Y.Narasimha Reddy	9885218488	11B81A0501 to 11B81A0523
			Mr.M.Hanimi Reddy	9491869509	11B81A0524 to 11B81A0543
			Mrs.M.Satya Devi	9989399906	11B81A0544 to 11B81A0561
CSE-B	Mr.Ch.Ram Mohan	9000115454	Mr.V.Dattatreya	9440272710	11B81A0562 To 11B81A0582
			Mr.C.V.S.Satyamurthy	9849187776	11B81A0583 To 11B81A05A4

			Mrs.Ch.Sarada	9948904610	11B81A05A5 To 11B81A05C2
III YEAR COUNSELING IN-CHARGE: Mr.C.V.S.Satyamurthy			9849187776		
OVERALL COUNSELING HEAD : Prof. L.C.Siva Reddy, Vice Principal			9885806151		
PRINCIPAL: Dr.(Mrs.) K.S.Nayanathara			9502335871		
IV year B.Tech/I sem. (Class Teachers and Mentors) 2013-2014					
Section	Class Teacher	Mobile Number	Mentors	Mentor's Mobile Number	Roll Number
CSE-A	Mr. V. Dattatreya	9440272710	Mr.N.Nagarjuna	9440004476	10B81A0501 to 10B81A0520
			Mrs.S.SugunaMallika	9000516494	10B81A0521 to 10B81A0540
			Mr. L. Venkateswarlu	9441226277	10B81A0541 to 10B81A0560, 10681A0535
CSE-B	Mr. CVS Satyamurthy	9849187776	Mr. K. VenkateswarRao	9493809566	10B81A0561 to 10B81A0580
			Mr.C.Ramesh	9908210503	10B81A0581 to 10B81A05A0
			Mr. M.Raghava	9848096238	10B81A05A1 to 10B81A05C0, 08B81A05C2, 09B81A0502, 10291A0588, 10X71A0520
IV YEAR COUNSELING IN-CHARGE:Mr.K.VenkateswarRao			9493809566		
OVERALL COUNSELING HEAD : Prof. L.C.Siva Reddy, Vice Principal			9885806151		
PRINCIPAL: Dr.L.V.A.R.Sarma			9848091738		

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

- Some of the senior faculty and faculty who are doing Ph.D are exposed to innovative teaching

Project based innovation:

- College has active research projects funded by DRDO, AICTE and Institutional funded RFID.
- Being interdisciplinary, faculty from 2 or 3 departments are involved as a team.
- Major Projects done by students has guidance from teachers. Some Projects are really of advanced learning
- A project funded by College on unmanned aerial vehicles(UAVs) in progress under the supervision of Prof. P. Subramanyam in ECE Department

Innovation in training methods:

- Teachers have identified topic beyond syllabus in certain subjects. The background collection of information for such topics is from sources like NPTEL, MIT, and Stanford University material etc. They are available in College Library. Some faculty members are eager to involve themselves.

Innovative teaching methods based on training:

- Faculty attend advanced short term programmes organized by Academic Staff College, JNTU, Osmania University etc
 - Institutes like IIIT, Infosys, TCS organize advanced Industry Oriented Programmes. College staff are sponsored for such programmes
 - AICTE organizes outcome based education programs with venue as JNTU, Hyderabad. College faculty have attended such programmes
 - Such exposure gives scope for Innovative Teaching Methods
 - Feedback from students also gives information on effectiveness of teaching by a particular staff member
 - College established two Labs in association with Mitsubishi & Virtusa for hands on teaching and learning for Departments of EEE/EIE and CSE/IT respectively.

The following faculty have acquired such opportunities: (sample list)

2011-2012			
Sl.No.	Title of Workshop attended	Name of the faculty who attend the workshop	Reference of the workshop
1	Two week Staff development program on “Advanced Data Mining” Workshop	C.Ramesh	VNR VJIET, VNR VJIT Bachupally, Hyderabad from june 14 th May to 26 th May 2012.
2	FDP on Software engineering Models and Delivery Methodologies	V.Sowjanya	JNTU Hyderabad,2012
3	Workshop on “Android Application Development “	C.Ramesh	CVR college of engineering from 18 th January to 7 th February 2012 at CVR college of Engineering.
4	Workshop on “Android Application Development	Syed Muqthadar Ali	14 day workshop in CVRCE in collaboartion with Alumni from 18th Jan-7th Feb 2012
5	Workshop on “Android Application Development	SugunaMallika S	14 day workshop in CVRCE in collaboartion with Alumni from 18th Jan-7th Feb 2012
6	Cloud Computing	M.Sunitha	CVRCE, Hyderabad on 4 th January, 2012

7	Cloud Computing	C.H.Ram Mohan	CVRCE, Hyderabad on 4 th January, 2012
8	Cloud Computing	N.Vanaja	CVRCE, Hyderabad on 4 th January, 2012
9	Cloud Computing	Ms. Patel Pritibahensumanbhai	CVRCE, Hyderabad on 4 th January, 2012
10	Computer Networks	M.Ramesh	Madanapally Institute of Technology and science- June 2011
11	Wireless Networks and Network Simulators	M.Sunitha	Geethanjali college of Engineering and Technology in Feb 2011
12	SAP ABAP Workshop	Syed Muqthadar Ali	Jawahar Knowledge Center, Hyderabad from 28.02.2011 to 02.03.2011
13	“Real Time Linux”	Ms. Patel Pritibahensumanbhai	Computer Science and Engineering department of Sphoorthy Engineering College, Nadargul, Hyderabad.2011
14	FDP on Agile methodologies	V.Sowjanya	TCS synergy park, 2011
15	FDP on Agile methodologies	CVS. Satyamurthy	TCS synergy park, 2011
16	“Cloud Computing & Web 2.0”	Ms. Patel Pritibahensumanbhai	ACM annual meeting at Indian School of Business, Hyderabad. 2011
17	“ADOBE-FLEX”	Ms. Patel Pritibahensumanbhai	Computer Science and Engineering department of Sphoorthy Engineering College, Nadargul, Hyderabad. 2011
18	Faculty enablement program	V.Sowjanya	VVIT, Nambur,Guntur(Dt),2011
19	International conference on scientific computing with python	V.Sowjanya	ISB & Mahindra Satyam, Hyderabad, 2011
20	CLOUDS 2011	L.Venkateshwarulu	JNTUACE,Anantapur, Dec 2011

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

With the sanction of Autonomous status by JNTU and UGC, College could expand the scope of curriculum to meet the aspirations of students:

- Creativity and scientific temper will inculcate a great satisfaction to the learners
- To meet such requirements, new courses have been brought in to the curriculum
- By introducing such courses the capability of student has increased and many are getting in to placement. Many students are also successful in going abroad for higher studies.
- Lab content has been increased.

New courses introduced for the Departments are:

S.No.	Title of Course	Theory/Lab	No. of Credits
1	Verbal Ability	Lab of 2 periods	1
2	Reasoning and Logical	Lab of 2 periods	1
3	Data Interpretation	Lab of 2 periods	1
4	Quantitative Ability	Lab of 2 periods	1
5	Interdisciplinary Elective	Theory	3
6	Open Elective Course	Theory	3

- During the current academic year 2015-16 the course structure of B.Tech was reviewed and revised by the Academic Council of the college after approval from the General Board of Studies in the college. The curriculum in the first year underwent certain modifications with introduction of a Paper on Computational Mathematics and also a lab course on the subject. This is common to all the first year students.
- In the second year B.Tech course a paper on GENDER SENSITIZATION is being offered to create an awareness about their social responsibilities. This is in accordance with the guidelines of the affiliating JNTU Hyderabad
- Every department is provided with a Research/Project lab to improve the needs of learners without disturbing the normal lab work
- Mini Project and technical presentation which the College encourages will help in developing creativity among students
- 6 M.Tech Students (Embedded Systems) demonstrated advanced Learning Skills by Designing, Assembling and Testing unmanned aerial vehicles(Drones) which were fitted with Video cameras. They were tested while flying by recording photographs and video graphs from a height of about 300 feet.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

- o **Number of projects executed within the College**
- o **Names of external institutions associated with the College for student project work**
- o **Role of the faculty in facilitating such projects**

According to Curriculum there are two types of projects

- i) Industry Oriented Mini Project which students do in 3rd year summer vacation and submits report for evaluation in 4th year 1st semester Exam.
- ii) Major Project having 10 credits. Both the projects are compulsory and mandatory
- iii) 99% of our faculty have minimum M.Tech degree and are competent to offer an application oriented project work.
- iv) In order to have full control on day to day completion of project work, majority students are encouraged to do project in the college itself.
- v) Where Department/Industry are involved they should be reputed organizations like DRDO, BHEL, ECIL etc. Even then, there is an internal guide nominated by Head.

The following is the general picture of % of projects completed in the Institution.

S.No.	Department	No. of Projects done out side	Projects done in the Institution %
1	Civil	-	100
2	CSE	10	90

3	ECE	20	80
4	EEE	20	80
5	EIE	20	80
6	IT	10	90
7	Mechanical Engg.	75	25

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer-aided teaching/ learning materials? What are the facilities available in the College for such efforts?

- Every Department has Computers in all Labs and staff rooms with Internet and Intranet facility
- Every Department has a Seminar hall with LCD, OHP etc
- College subscribes to all e-journals through facility like DELNET as per stipulations of AICTE
- Departments have all relevant software for applications and instructional facility
- Open source material is available
- There is access to almost all e-journals using digital library facility
- Faculty are deputed liberally to advanced institutions for short term programmes where the staff can have good exposure.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

- Mechanism of evaluation of teacher is done by obtaining feedback from students
- Feedback is taken in a questionnaire pattern at the end of 4th week and 16th week of a semester
- This gives scope for the administration to understand the problems and to take remedial measure
- Feedback is analyzed manually and grading is allotted class wise. It helps to understand the problems of students with their learning experience.
- Necessary counseling is done to faculty to improve teaching learning effectiveness
- Feedback from alumni is obtained by convening alumni Meet which is done twice a year
- Heads also obtain alumni feedback through email. Ideas on the department development, primary targets, new technologies are received from alumni which will be helpful for development of department

2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

- There are no challenges faced by the college affecting the curriculum
- However there are common challenges faced in the past due to delayed admissions, consequently commencement of class work gets delayed
- Unforeseen interruptions due to bandhs/agitations
In such cases, the calendar is suitably modified not sacrificing the instructional days and reducing vacations

2.3.14 How are library resources used to augment the teaching-learning process?

- College has central Library which is 3 stored building

No. of Volumes	:61659
No. of Titles	12863
- Distribution of Text books to each department is such that the number of books are more than required as per norms
- Ground floor is for book racks and for issue
- First floor is for reference books and digital library
- Second floor is for Research Cubicles, book binding, Mini Conference rooms and internet based Project Computer Lab

Library has the following additional resources

- NPTEL
- Open Source
- MIT and Stanford University Material etc
- Students make use of digital Library out side teaching hours
- Teachers use various CDs, open source material, hard copy and e-journals to improve their knowledge skills
- 40 faculty members doing Ph.D. find convenient preparation time using Research Cubicles and other e-sources

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

- Feedback from students
- Self-appraisal report by teachers
- Periodical/monthly based departmental meeting to review the quality of teaching, problems of students, discipline matters etc.
- Majority class rooms are arranged in one floor for every department for better control and over view
- Each department has a quality cell, headed by HOD

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

For 2014-15, sanctioned strength as per...

Norms of AICTE : 309

Filled on rolls : 328

Out side the state : 30

2.4.2 How are the members of the faculty selected?

- Notification is issued by the Principal in two National News Papers. Applications mailed to e-mail ID of the Principal are scrutinized and list of candidates selected for interview is finalized. This is normally held in the month of April of every year.
- Interview committee is constituted with all internal Professors of the Department and two external members from JNTU/OU
- It will be communicated in the call letter for interview that they have to lecture for about 10/15 minutes on any topic of candidate's choice followed by interview
- Orders are issued by the Chairman, normally as per the merit list. The candidates will be informed to join by early June so that they will get acquaintance with the College in June to be ready to handle the class work from 1st July of the year
- Selected candidates will get ratified by the University in due course

2.4.3 Furnish details of the faculty

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	25	3	5	2	3	1	39
M. Phil.	-	-	3	3	2	3	11
PG (M.Tech./M.Sc./M.A.)	7	0	34	13	127	97	278
Total	32	3	42	18	132	101	328
As per norms of AICTE, 309 are required							
Temporary Teachers: Nil							
D.Sc./D.Litt.	NA	NA	NA	NA	NA	NA	NA
Ph.D.	NA	NA	NA	NA	NA	NA	NA
M. Phil.	NA	NA	NA	NA	NA	NA	NA
PG	NA	NA	NA	NA	NA	NA	NA
Part-Time Teachers: Nil							
D.Sc./D.Litt.	NA	NA	NA	NA	NA	NA	NA
Ph.D.	NA	NA	NA	NA	NA	NA	NA
M.Phil.	NA	NA	NA	NA	NA	NA	NA
PG	NA	NA	NA	NA	NA	NA	NA

About 37% of the faculty members are ladies

2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

Number of teachers ratified in UGC CSIR_NET, UGC-Net are 80.5 %. All 328 Faculty members have PG/Ph.D. Qualification.

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Yes College encourages diversity in recruitment. For recruitment of Faculty notifications calling for applications are issued in prominent national Newspapers like Hindu in addition to other local Newspapers. Faculty members hailing from many states are serving the College.

2.4.6 Does the College have the required number of qualified and competent teachers. Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Yes.

The College has required number of teachers and the number is more than requirement as per norms of AICTE. Competency wise 99% of faculty are Post Graduates with M.Tech/M.S qualification. There are 39 Ph.D holders and 55 teachers are doing Ph.D. There is no problem of competency at any time. All subjects for B.Tech and M.Tech are handled by the College teachers.

The following are the details of faculty selected over the last four years

Academic Year	Number of Faculty
2015-16	60
2014-15	85
2013-14	80
2012-13	47
2011-12	62

Necessity of adding faculty has arisen because of increased intake and introduction of new programmes/sections. B.Techin Civil Engineering & Mechanical Engineering were introduced in 2011-12. Many other B.Tech branches have increased intake.

College puts in efforts to update the knowledge level of faculty by encouraging them to attend Faculty Development Programmes, organizing Workshops/seminars in College and guest Lectures in College.

2.4.7 How many visiting Professors are on the rolls of the College?

Only Five Faculty members are working as Emeritus Professors. They have been with the college for the many years. Their services are continued because of their expertise. However they are not counted for the number of faculty required for each department.

2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/ international conferences/Seminars, in-service training, organizing national/international conferences etc.)

College gives lot of incentives to encourage Research among faculty. Detailed list has been furnished in Part-1 (Institute Profile at item No:-17.)

However, the incentives pertaining to encouraging Research are again furnished here.

- i) Faculty is sanctioned 6 months study leave with pay(sabbatical) for accelerating Ph.D work and the same is given twice during Ph.D work period.
- ii) Further a cash incentive of Rs. 25,000/- is given thrice at different stages of completing Ph.D work.
- iii) List of faculty members who have successfully completed Ph.D work availing this scheme and who are doing Ph.D work (55) availing the facility is furnished hereunder
- iv) Totally College has 39Ph.D holders.
- v) College awards incentive for Research Publications. Dean-Research and Members of Research Committee examine and recommend the cases. An award of Rs. 20,000/- is given for each publication
- vi) For staff presenting technical papers in conferences/ workshops TA & DA and Registration Fee limited toRs.3, 000/- is sanctioned by the College.
- vii) The College Management provides financial supportfor conductingworkshops/seminars/conferences by sanctioning the funds

List of faculty members pursuing Ph.D

Cum. S.No.	S.No.	Name of the Faculty	Designation	University
Civil Engg. (CE)				
1	1	MsB.UmaRadha	Associate Professor	JNTU H
2	2	MrN.Ramanjaneyulu	Assistant Professor	JNTU A

Computer Science and Engg. (CSE)				
3	1	Prof. L.C. Siva Reddy	Prof. HOD & Vice Principal	Osmania University
4	2	Mr. C. Ramesh	Assoc. Professor	JNTUH
5	3	Mr. M. Raghava	Assoc. Professor	UOH
6	4	Mr.B. Rambabu	Assoc. Professor	OU
7	5	Ms. A. VaniVathsala	Assoc. Professor	UOH
8	6	Mr. L. Venkateshwarlu	Assoc. Professor	JNTUA
9	7	Mr. Ch. Ram Mohan	Assoc. Professor	JNTUH
10	8	Mr. V. Dattatreya	Assoc. Professor	JNTUH
11	9	Mr. A. Mallareddy	Assoc. Professor	JNTUH
12	10	Mr. N. SrihariRao	Asst. Professor	JNTUA
13	11	Mr. N.Satyanarayana	Asst. Professor	OU
PG Programme:- M.Tech.(CSE)				
14	1	Ms. SunithaMaddhi	Sr. Asst. Professor	JNTUH
Electronics & Communication Engineering (ECE)				
15	1	Wg. Cdr. Varghese Thattil	Professor & HOD	JNTUH
16	2	Mr. G. Ravi Shankar Reddy	Assoc. Professor	JNTUA
17	3	Mr. P. SrinivasaRao	Assoc. Professor	JNTUH
18	4	Mr. KarrarHussain	Assoc. Professor	JNTUH
19	5	Ms. K.A. Jyotsna	Assoc. Professor	JNTUH
20	6	Mrs. Dhruva R. Rinku	Assoc. Professor	JNTU-H
21	7	Mrs. V. Ramadevi	Asst. Professor	GITAM,Hyderabad
22	8	Mrs. A. Malleshwari	Asst. Professor	JNTU-K
23	9	Mr. B. Janardhana Rao	Asst. Professor	JNTU-K
M.Tech. (VLSI Design)				
24	1	Ms. V. SilpaKesav	Asst. Professor	JNTUH
M.Tech. (Embedded Systems)				
25	1	Ms. T. Sravanti	Asst. Professor	Osmania University
Electrical & Electronics Engg. (EEE)				
26	1	Ms. G. Sree Lakshmi	Assoc. Professor	JNTUH
27	2	Mr. B. KalyanaChakravarthy	Assoc. Professor	Osmania University
28	3	Ms. R. NaveenaBhargavi	Assoc. Professor	Osmania University
29	4	Mr. Ch. Lokeshwara Reddy	Assoc. Professor	JNTUH
30	5	Mr. G. Manohar	Assoc. Professor	JNTUK
31	6	Ms. Ch. Sravani	Asst. Professor	JNTUK
32	7	KSV Phani Kumar	Asst Professor	JNTUH
33	8	Ch. Naresh Kumar	Asst Professor	BARC
Electronics & Instrumentation Engineering (EIE)				
34	1	Ms. S. Harivardhagini	Assoc. Professor	JNTUH
35	2	Mr. B.Satish		
36	3	MrO.VenkataKrishna		
Information Technology (IT)				
37	1	Prof. U.V. RamanaSarma	Professor & Head	Osmania University

38	2	Mr. C.V.S. Satyamurthy	Assoc. Professor	JNTUH
39	3	Ms. H.N. Lakshmi	Assoc. Professor	UOH
40	4	Mr. B. Vikranth	Assoc. Professor	UOH
41	5	Mr. P.V.M. Seravana Kumar	Asst. Professor	Bharathiar
Mechanical Engg. (ME)				
42	1	Ms.G.Mrudula	Asst. Professor	Osmania
43	2	Mr.Rajendra Kumar	Asst. Professor	JNTU H
44	3	Mr. M. PremSwarup	Assoc. Professor	JNTUH
45	4	Mr.P.V.Ramana	Asst Professor	
Humanities & Science (H&S)				
46	1	Ms. VanithaSingi Reddy	Asst. Professor in English	AN University
47	2	Mr. Raghavendera Kulkarni	Asst. Professor in Physics	IIT Madras
48	3	Mr. A. Venu Gopal	Asst. Professor in Chemistry	Osmania University
49	4	Mr Hussain Basha	Asst. Professor in Chemistry	SV University
50	5	Mr. Sheik Ahammed	Asst. Professor in Physics	Osmania University
51	6	Mr. V. Rama Krishna	Asst. Professor in Mathematics	Osmania University
52	7	Mr. P.V.S.H. Sastry	Asst. Professor in Management Science	Osmania University
53	8	Mr.S. SambasivaSarma	Assoc. Professor in Management Science	Osmania University
54	9	Ms. K.T. Padma Priya	Asst. Professor in Environmental Studies	Osmania
55	10	Ms. V. Swapna	Asst. Professor in Statistics	Telangana University
56	11	MrN.Guruvaiah	Asst .Professor in management Science	Osmanaia University
57	12	MrB.N.V.Umasankar	Asst. Professor in Statistics	Andhra University
58	13	Ms.Vijaya Mair	Placement Officer	Mewar University

Research schemes sanctioned by DRDO an amount of 25 lakhs

1. Data Acquisition System (DAS) Hardware

The Data Acquisition System (DAS) hardware is a modern hardware system for sampling, storing and representing large number of analog, digital channels along with digital input/output and serial channels. CVR is an autonomous engineering college (with UGC 2f and 12 B approval) with infrastructure for VLSI including FPGA based design and large number of M.Tech students and trained faculty to develop the required hardware. The objective of the project is to develop a FPGA based DAS employing Power PC hardware and other required hardware such as analog to digital (ADC), Digital to analog(DAC), DIOS, RS232 channels.

2. Data Acquisition System Software - DAS-SW

The FPGA based Data acquisition system software caters for accepting the data from various hardware subsystem such as Analog to Digital converter (ADC), Digital to Analog converter (DAC) Digital input output system (DIOS) and RS422 serial channel. The software stores the data in a formatted way for easy retrieval & presentation. The aim of the project is to develop the software in FPGA with power PC as (Hardcore), BRAM, SDRAM along with ADC (16 channels) DAC (4 channels), DIOS (32 no's) and RS422 (4 channels).

3. Development of Orthogonal Frequency Division Multiplexing (OFDM)

The Orthogonal Frequency Division Multiplexing (OFDM) is a state of the art modulation technique for high speed wireless communication with resistant to fading. CVR is an autonomous Engineering College (with UGC 2f and 12 B approval) with infrastructure for developing cutting edge communication technology with modern VLSI tools and large number of M.Tech (VLSI) students and trained faculty. It is thereby expected that the college infrastructure is used for DRDO's technology initiatives in a cost effective and cooperative way. Towards this DRDO's requirement and CVR's capability were explored.

The objective of this work is to develop the FPGA based OFDM technology bulk modulator and demodulator for high speed data transmission on wireless media. Though the technology is extremely spectrum efficient, it has some tolerance problems which are also to be addressed. The modulation will be QPSK and 8 sub carriers will be used. The technology can be used by DRDO for high speed flat fading synchronized wireless data transmissions.

4. Institutional Funding of Rupees 6.8 Lakhs for UAV Project.

Visualizing a rich scope for UAV Applications(Unmanned Aerial Vehicles) which is a virgin and upcoming area, CVR College encouraged the idea of establishing a research laboratory in this direction, and developing UAV Applications for Agriculture.

For this purpose, a seed money of Rs. 6.8 lacks was spent to

- (i) Establish a limited research facility in UAVs, to start with
- (ii) Develop 5 applications in the area of Agriculture,

Involving 7 M.Tech.(ES) students as a part of their Project work. The idea was successfully implemented and it is planned to continue the above work to develop new applications, seeking funding from agencies like MHRD, DST.

i) Training at higher level National Institutes.

Title of the activity	Subject	Date from- to (Latest first)	Level (Regional / National / International)	Name of external body involved, if any
SAE Club Inauguration & Automotive Mechanics	Automobile Engineering	19/9/14 to 20/9/14	Intra college / Regional	SAE India & Robosapiens
Entrepreneurship Awareness Camp	Entrepreneurship	4/09/14 to 6/09/14	Intra college	Osmania University
ROBO GRAVITY	Robotics	28/02/14 to 01/03/14	Intra college	IIT, Mandi and ABLab Solutions
The Science of Aircraft	Aerospace	23/01/14 to 25/01/14	Intra college	TERA INC.
Engineering Research Methodology	Research methodologies	17/01/14 to 18/01/14	Intra college	OU, DMRL,UOH

Entrepreneurship Awareness Camp	Entrepreneurship	19/09/13 to 21/09/13	Regional	Osmania University
Learning Outcomes	Learning Outcomes of Engineering Students	16/3/13	Regional	Ramky group
CAD/ CAM for Enhanced Quality	CAD/CAM	21/2/13 to 23/2/13	Regional	Osmania University, DRDL, NIT - Warangal
Entrepreneurship Awareness Camp	Entrepreneurship	20/12/12 to 22/12/12	Regional	Osmania University
Entrepreneurship Awareness Camp	Entrepreneurship	2/2/12 to 4/2/12	Regional	Osmania University

ii) Orientation Programmes:

On an average 60 new faculty members join every year and this has been so for over the last four years. For all such faculty a 15 day Orientation Programme is organized in the month of June of every year before commencement of the academic year. This helps to acquire teaching techniques, communication skills etc., for the new faculty. All such programmes are sponsored by the College Management.

iii) Organizing Guest Lectures is a common phenomenon in the College. Every Department organizes guest lectures detailed lists are furnished below.

The following is the list of Guest Lectures organized over the last four years:

Guest Lectures:(Sample copy is displayed here)Academic Year: 2013-14

S. No.	Society / Chapter	Event	Date
1	IEEE Student Branch	IEEE Tech Fest 2013	28 th September,2013
2	IEEE Student Branch	Industrial visit	24 th August 2013
3	IEEE-SB-WIE	Women's day celebration	7 th March 2014
4	IEEE Student Branch	DSP for BMA	7 February 2014
5	Guest Lecture under ISTE Students Chapter	Renewable Energy Potential in India	19 th Aug,2013
6	Guest Lecture under ISTE Students Chapter	Signal Processing Applications in Power Electronics and Control Systems	9 th Jan,2014
7	Guest Lecture under ISTE Students Chapter	Smart Grid	28 th Jan,2014

8	Software Development using Java	RaghuVeer , Software Engineer, IBM	23rd Nov 2013 10AM
9	Personality Development	RaghuVeer , Software Engineer, IBM	23rd Nov 2013 1:30PM
10	Augmented Reality	KausikSirineniMs University of Texas at Dallas	6th Jan 2014
11	Computational intelligence and Excitements	DrAtulNegi Professor School of Computer& Information Science University of Hyderabad	28 th March 2014
12	Virtualization	Mr. KashyapIvaturi from Amazon	14 th April 2014
13	Password Security by Captchas	Mr. K. Amarnath(IIT Bombay)	2014
14	Investor Awareness Program	ICAI	2014
15	Nanomaterials	Prof. S. Ramachandra Rao, IIT Madras	2014

These are some of the recharging strategies organized by the College. There is a separate register recording the incentives offered to various faculty members.

On a regular basis various Departments conduct extension lectures, workshops and seminars involving experts from outside. Sometimes faculty members from other institutions are also invited to take part.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

The following are the faculties who have received awards/recognition:

➤ **Doctoral / post doctoral fellows**

Dr. K.S. Nayanathara – IETE Governing Council Member

Dr. T. Esther Rani- IEEE Member

Wg. Cdr Varghese Thattil – Fellow member of IETE

Mrs. K.A.Jyotsna – IEEE Member

Mr. G.Ravishankar Reddy-IEEE Member

- Dr. T. Esther Rani also got selected for Research Award by UGC. This will give benefit of salary paid by UGC for her for 2 years and a contingency grant of 3 lakhs for 2 year period. Title of the Project sanctioned is “DESIGN OF MODIFIED SELF-SLEEP BUFFER FOR DISTRIBUTED MTCMOS TECHNIQUE IN ARITHMETIC AND FAST COMPUTATIONS”.
- Sri K Narender Reddy received his PhD from JNTU-A during 2012-13 while serving as Associate Professor in the Dept of CSE.
- Prof. A. D. Rajkumar- Expert panel member of AICTE, UPSC, Executive council member of JNTUH
- Prof. S. Narayana, Professor of EIE, Endowment lecture in honour of Prof. S.Narayana at IETE Hyderabad center since 2009 continuously for six years i.e. up to 2014 has been held.
- Dr.M.S.Bhat- Had secured and completed successfully AICTE projects such as MODROB, TAPTEC & RESEARCH and also from UGC.

- DrN.V.Rao was recognized as LIFE MEMBER in January 2016 by IEEE while serving as Professor in the Department of CSE
- Dr. D. Linga Reddy, Professor of Physics and Controller of Examinations has received the award of Emeritus Fellowship from UGC for the year 2014-15.

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)

As an average, about 60 faculty are sponsored every year for different Faculty Development Programmes. Year wise list is available in the files.

The types of Staff Development Programmes conducted/attended by faculty are listed below:

- Academic staff college programmes
- AICTE outcome based programmes
- Refresher Courses
- Short term programmes
- Workshops at other colleges
- Programmes conducted by college

Faculty show active interest to participate in such programme. The College Management also is liberal to sponsor for such programmes.

2.4.11 What percentages of the faculty have

- o **been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies** 10%
- o **participated in external Workshops / Seminars / Conferences recognized by national/international professional bodies** 60%
- o **presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies** 30%
- o **teaching experience in other universities / national institutions and others industrial engagement** 20%
- o **international experience in teaching** 5%

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

- Curricular Development
- Teaching-learning methods
- Examination reforms
- Content / knowledge management
- Any other (please specify)

a) Curriculum Development:

It is held once in a year. Particularly for new faculty, the Orientation programme is arranged for 15 days before the commencement of academic year.

b) Teaching – Learning Methods:

- i) Teacher prepares lesson plan and circulates it to students on 1st day.
- ii) Reference books, Text books and their usefulness is covered.
- iii) Class room teaching with chalk as a conventional method is followed on different topics in general.
- iv) Use of OHP, LCD is preferred for the topics that are more discussion oriented and later preparation by student is needed.
- v) Exposure to external based information, e-journals, open source are required for teacher when projects are guided or topics beyond the syllabus are concerned.
- vi) Faculty Development Programmes are the best way of improving teaching level of staff. On an average the College holds FDPs twice a year.

c) Examination Reforms:

Reforms have been brought in the evaluation process because of flexibility in autonomous structure. Reforms are held once in a year and all such reforms need to be approved by Board of Studies and the Academic Council.

- i) Awarding marks for attendance
- ii) Awarding marks for assignments
- iii) Preferring two mid term examinations and taking average of both the mid exam marks is an important reform which has been brought in recently. This brings more seriousness on the part of student through out the semester.

d) Content and Knowledge Management:

Conducting workshop, seminars, attending seminar, conferences on special topics will help in enhancing teaching skills of teachers. On an average, every staff member is allowed to attend 3 seminars. Department normally conducts 2 short term programmes. Department organizes 3 or 4 Guest Lectures in a year.

e) Any other:

New software training for internal faculty like hands on experience in MATLAB, P - Spice, Cadence, Auto CAD etc., are continuously exposed to many faculty even though they are not regular users.

Training to other College Technical Staff:

- i) CVR has organized three programmes to provide training for other College staff in CADENCE Tools.
- ii) CVR organized a 5 day workshop on Micro Processors using Intel Tools and their experts. 58 faculty have attended from 30 Engineering Colleges. These programmes are done not regularly but as the need arises.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

- i) The concepts of outcome based education has been brought in all departments. Faculty are aware of course outcomes, Programme Educational Objectives (PEO) and Programme Outcomes (PO).
- ii) Assessment of outcomes based on weightage given to direct and indirect assessment tools are made clear.
- iii) All these have been brought into course files and given to students.
- iv) Placement training have been carried out in a rigorous scale, resulting in more placements over the last few years.
- v) Curriculum revision has been done every two years to bring in more seriousness and adding more lab content and new courses.
- vi) With the first batch under Autonomous Structure completing B.Tech, new curriculum is taking place from 2015-16 with about 20% variation in course structure.

2.4.14 Does the College have a mechanism to encourage

- o **Mobility of faculty between institutions for teaching?**
- o **Faculty exchange programmes with national and international bodies?**
 - 1. Faculty exchange program by Valmiki Group
- o **If yes, how have these schemes helped in enriching quality of the faculty?**

- a) No. Mobility is possible in sharing expertise only.
- b) Yes. It is partly met.

1. Dr. T. Esther Rani, Professor of ECE has a patent approved. She is selected as UGC Professor for two years. She has a contingency grant of 3 lakhs to visit other National Level Institutions. For two years, her salary will be paid by UGC.

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

- Evaluation Process is part of academic regulations formed by college and approved by statutory bodies.
- Statutory Bodies like Academic Council constituted with members drawn from Industry, Alumni and others formulate and approve the evaluation process and procedures and make modifications if necessary from time to time
- Evaluation process is a transparent system and is placed on College Website.
- All the students have the necessary information as they are supplied with course files and printed booklet of curriculum and regulations. Through them, parents also are exposed to evaluation system.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?

In the meeting of Board of Studies and Academic Council held in 2013-14, certain major reforms were made.

- i) Attendance is given weightage of 2 marks in internal marks.
- ii) Interdisciplinary Elective has been included at 3rd/4th year level so that every branch student can prefer his choice course from other branch under cross migration.
- iii) During the last three years three internal examinations were conducted per paper in a semester. better two performances were averaged to obtain marks at the internal examination in that paper. It was noticed that students were not seriously taking one internal examination and so the three test system is being done away with. A two test system is in place from the year 2015-16 where in a student has to necessarily take both the examinations whose average marks will be the internal marks of a student. First examination will cover first half and second test covers second half of syllabus.
- iv) If a student misses one examination due to unforeseen circumstances, a third test called substitution test will be conducted at the end of the semester in the complete syllabus on payment of fees. Payment of fee is to discourage the students from deliberately avoiding the internal exam.
- v) Moderation of end semester examination question paper by the Chairman, Board of Studies is followed.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

- Continuous evaluation is a priority goal in the system so that the student also reads continuously.
- Evaluation is by allotting assignments and conventional mid term examination
- There are two mid examinations in a semester.
- The calender is communicated in the beginning itself

- For half of the syllabus, quiz, assignment 1 and mid 1 are conducted
- The valued scripts are shown to students in the immediate class for discussion and clarification.
- For students scoring low marks, slow learners based on 1st mid test, additional inputs are given through remedial classes
- When average marks of two internal examinations are taken students are found to be more serious in studies
- In laboratory classes, the viva and valuation of experiment and results are done then and there itself.
- Records of experiments performed already should be submitted in the next lab session
- There is one mid lab test for 10 marks whereas day to day class work has 15 marks. Here also, continuous evaluation experiment wise is done but not at the end of the semester. Student knows the marks he scores for every experiment as the marks entered in his record book.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

For B.Tech (UG)

The distribution of marks under the regulations effective from academic year 2015-16 is presented below.

Students that joined in the earlier academic years till academic year 2014-15, 25% marks were allotted for internal evaluation and 75% marks for external evaluation

Presently the distribution is as follows

30% marks for internal and 70% marks for external evaluation in theory subjects.

S.No.	Course	Internal Marks	End Exam Marks	Pass Marks
1	Theory	30	70	35% marks (25 marks out of 70) in end exam and not less than 40% in total
2	Lab	30	70	
3	Drawing	30	70	
4	Seminar	100	---	
5	Mini Project	30	70	
6	Final Project	30	70	
7	Comprehensive viva-voce	0	100	

For M.Tech (PG)

S.No.	Course	Internal Marks	End Exam Marks	Pass Marks
1	Theory	30	70	40% in end examination and 50% in total
2	Lab	30	70	
3	Seminar	100	-	
4	Comprehensive viva-voce	-	100	
5	Project	No marks. Only grades are allotted.		

- In theory subjects out of 30 marks assigned for internal assessment 20 marks are allotted for two mid term examinations and 8 marks are assigned for assignments. 2 marks are allotted for a student putting in more than 75% attendance in a semester. There will be one assignment to be submitted and evaluated before each internal examination
- For practical subjects the distribution of marks is as follows

Under the present regulations for internal assessment 30 marks are earmarked out of which 20 marks are allotted for day to day work in the laboratory (continuous evaluation) and 10 marks are allotted for internal practical/ internal drawing examination.

Prior to this the allotment for practical examinations was 25 marks out of which 15 were allotted for day to day work (continuous evaluation) and 10 marks were allocated for internal laboratory examination.

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

- The examinations are conducted as per schedule on almost all occasions. Where there are special reasons for postponing any examination, the postponed examination will be held on a separate day as per notification.
- On a day only one regular exam is held.
- College on its own does not take a decision to postpone an examination unless Government or University takes a decision due to special reasons.
-

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

Time for declaration of results:

On an average for UG: 20 days is the time taken for declaring results after the last examination. For PG: 20 days after the last examination results are declared.

Mode of publication:

Displayed on Notice Board of the College and the Department.
Hosted on the Website of the College.

2.5.7 Does the College have an integrated examination platform for the following processes?
Yes.

- Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- Examination process –Examination material management, logistics.
- Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.

Pre-Examination Process:

- Time tables are generated according to the Academic calendar and approved by the Academic Committee and Dean Academics of the College in respect of mid term and Semester end examinations.
- The Controller of Examination or Principal issues notifications for registration of applications for End examination. Accordingly the examination fee is collected manually only. Based on that, Hall-tickets are generated and issued to the students.
- Answer books are made into bundles of 40 each and a code number is allotted to each bundle. Based on the number of candidates that have registered OMR sheets are generated and attached to the main sheet. Provision is made for entering the particulars of the student, subject, paper, date and other details.
- One faculty member is allotted to invigilate every 20 candidates.
- The Principal, Vice Principal, Controller of Examination, observers and all the Heads of the Departments go round the examination Halls every ½ hour till the completion of examination.

Examination Process:

- Based on the registration of the students the Hall-wise Attendance sheets stitched with OMR sheets and seating arrangements are made. The attendance sheets, seating plan and answer booklets are put together and handed over to the Invigilators ½ hour before the commencement of examination.
- The question paper will be handed over by the Controller of Examinations to the Deputy Controller FIVE minutes before the commencement of examination who in turn will distribute among the Asst. Controllers and they will ensure that question paper reaches every student at the stroke of the examination commencement bell. Unused answer books and Student Attendance sheets are collected from the examination halls ½ an hour after commencement of examination.
- After completion of the examination, answer booklets are collected from the Invigilator by the Asst. Controllers, A.R., and other staff.

Post Examination Process:

- After the collection of all Answer Booklets along with the attendance, they are sent to the confidential room for coding and separating of the coding slips.
- After coding, they are made into bundles of 40 booklets and they are transferred to valuation halls. Valuation starts with the appointment of Chief Examiner, valuers and Scrutinizers.
- Chief Examiners prepare the scheme of evaluation conduct a meeting with evaluators and discuss guidelines for uniform and objective evaluation. All the Answer booklets are evaluated. The Chief Examiner also reviews the answerbooklets randomly from bundles of 40 scripts, after valuation by the evaluator. The scrutinizers appointed by the Controller of Examinations check all the pages of the answer booklets page by page, question wise and totaling etc.
- After completion of the valuation and scrutiny the entries of Award lists are done by double entry by two tabulators. After the two entries made are compared and verified for correctness analysis of the results is made and placed before the results Committee consisting of Principal, Dean- Academics, Vice Principal and Controller of Examinations and a member nominated by JNTU Hyderabad. After

approval from the Result Committee, decoding is done with coding slips and after thorough verification, the results are declared on line & in print form.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

College is not offering Ph.D. programmes. They are not in the purview of the College.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations?

Mention any significant efforts which have improved process and functioning of the examination division/section?

Office of the Controller of Examination consists of the following staff:

1. Controller of the Examination – Overall
2. Deputy Controller of Examinations -2 (Confidential work & pre and post examination)
3. Asst. Controller of Examination – 2 (conduct of examinations and Result process)
4. Consultants – 2
5. Programmers – 2
6. Sr. Asst. – 1
7. DTP Operators – 4
 - The Office of the Controller of Examinations is located in a protected area of the College and guarded by security personnel
 - Entry to examination branch is by permission only
 - There are two chambers for the COE:
 - To meet students at a non confidential zone
 - To meet confidential team
 - The work is streamlined adopting two types of work. One is Pre-Examination work which is mostly non-confidential. Other is post examination work which is confidential
 - The Controller has one Additional Controller for pre-examination and another for post examination.
 - There is a strong room for storing all confidential documents/papers.
 - Reserve question papers are always kept ready under safe custody of COE
 - All decisions of examination work involving confidentiality are exclusively under the control of the Controller of Examinations.
8. Software purchases for reducing human intervention and easy access to every record.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

Yes.

There is provision for redressal of grievances with reference to evaluation through Revaluation and Recounting. The Revaluation is done by the faculty of Universities and Senior College faculty who were not valuers of the same paper.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?

Yes

- Programme Educational Objectives (PEO), Programme Outcomes (PO) and Course Outcomes (CO) were identified semester wise for all theory and lab courses. They are listed in course file and handed over to all the students and staff as printed booklet.
- Learning outcomes are also displayed on Notice Board and College Website. Counseling is done for all the students on the importance of learning outcomes. Department meetings are organized and there is a continuous briefing on Learning Outcomes to the staff.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

Learning outcomes are monitored by keenly reviewing the direct assessment tools.

- The regularity of the student's attendance
- Internal examination marks
- Laboratory regularity and completion of experiments
- Seminar presentation
- Presentation of technical papers at other institutions
- Placement
- End exam performance
- Assignments
- Other indirect assessments readily available are feedback from students, parents representation if any, and self-appraisal reports of faculty.
- Feedback from Employers
- Total picture of the above gives an idea to the teacher where exactly the assessment and expectation are differing and the reasons for the same.
- Necessary remedial measures are taken up to see that the low scoring, slow learners, less placements are all viewed.
- Tutoring, remedial coaching one-to-one interaction with students, intensive training for communication skills etc., can be strengthened so that the learning Outcomes are satisfactory
- Assessment is done by fixing for assessment tools which help in reviewing.

2.6.3 How does the institution collect and analyze data on student learning outcomes and use it for overcoming barriers of learning?

- Every staff member is allotted with 20 students for counseling over the entire semester.
- Every staff member will have knowledge of performance of those students, to identify slow and fast learners.
- Internal exam marks and end exam marks are collected.
- Regularity of lab seminars and completion of experiments will also give knowledge of extent of learning.
- Feedback from students at the end of semester
- All this data is analyzed by the internal academic committee of the department to take effective steps to improve the learning outcomes.

Where there are major initiations like syllabus coverage inadequate time, unwanted topic, important topics missing etc, The Head of the Department prepares a note and sends to the Principal to discuss in the next BOS meeting.

Graduate Survey:

Graduate Survey is also collected from the students leaving the College which will give deficiencies in the entire programme

Parent's feedback:

Parents with professional background also offer feedback. In fact, CVR College has been very effective in communicating with parents. Particularly at I Year level, day wise information goes to parent in case the ward absents from any lab class. If a student absents for 3 days continuously, letter is sent to parents requesting them to keep track of the student's regularity or to meet the concern Head of the Department and discuss the attendance and regularity of their ward. Analysis of all this data will be very helpful which consists of remarks on certain subjects like maximum students failing, scoring of low marks etc. Such information is taken back to BOS with necessary recommendation for remedial action.

CRITERION-III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes. The College has a research committee to monitor and address the issues of research and research projects. The committee is headed by the Dean-Research and has the Principal, the Dean-Projects and the Head of Departments as its members.

During the past few years the Committee made the following recommendations:

1. To advise the Professors and senior faculty members to apply to the AICTE, UGC, DST and DRDO with research proposals for projects and also for upgradation of facilities in laboratories.
2. To encourage faculty members to publish technical papers in journals and present papers in conferences.
3. To encourage Assistant and Associate professors to register for Ph.D and pursue research.
4. For the College to bring out a Journal of Research.
5. To invite eminent researchers from academia and industry to enlighten the faculty members on current topics of research.
6. To encourage students of M. Tech and B. Tech to take up projects utilizing the hardware and software facilities in the laboratories.
7. To motivate students to present papers in conferences.
8. To explore possibilities of collaboration with industry and research organizations.

The results of the recommendations have yielded fruits in the form mentioned:

1. Research and project grants have been received from the DRDO and the AICTE.
 - MODROBS, IIPC, DRDO projects.
2. Projects with ECIL are under negotiation.
3. Technical journal named CVR Journal of Science and Technology was started in 2011, a biannual journal with ISSN 2277-3916.
4. Thirty five faculty members are currently pursuing Ph.D.
5. The number of publications in journals and paper presentations in conferences has increased significantly in recent years. The Departmental Research Committee (DRC comprising of Dean-Research, Head of the Department and a senior Professor) on perusal of the published/presented paper recommends cash incentives to the concerned faculty members and students.
6. Collaboration with DRDO, ECIL and BHEL have resulted in project execution by faculty members and students using current tools and state of art equipment.
7. Seminars and workshops are being organized regularly for the benefit of faculty members and students with resource persons selected/invited from reputed organizations.

3.1.2 What is the policy of the College to promote research culture in the College?

The policy of the College is to encourage faculty members and students in a multipronged manner towards pursue of research.

1. Faculty members are awarded incentives at three stages during their Ph. D work - First incentive of Rs.25000 after completing Pre-PhD, second incentive of Rs.25000 after pre submission seminar of thesis and third incentive of Rs.25000 after submission.
2. They are sanctioned leave for 6-7 months and twice on full pay to concentrate on Ph.D work. An allowance of Rs.10, 000 per month is sanctioned in addition to salary during leave period to meet expenses in meeting experts, travel and purchase of books.

3. Conduct of seminars, workshops and short term courses to acquaint the faculty members and students with the latest topics in their fields of study.
4. Faculty members have extended research hours for one day per week for two hours. They utilize library and laboratory facilities of the college. They are provided one day off per week to meet their research supervisors for discussions after completing Pre-Ph.D.

3.1.3 Details of prioritized research areas and the areas of expertise available with the College.

S.No	Prioritized research area	Expertise faculty	Dept.	Laboratory Facility
1	Material Testing & Analytical Study of behavior of Structures	Dr. T. Muralidhara Rao	CIVIL	Cement and Concrete Lab
2	Optimisation of Concrete Structures	Dr. B. Srinivas Reddy	CIVIL	Structural Engineering Lab
3	Geological Study of Rock Formations	Dr. N. Narayana	CIVIL	Engineering Geology Lab
4	Analytical Study of Structures using Structural Software	B. Uma Radha	CIVIL	Research Lab
5	Waste water quality testing and re-use from industrial effluents	S. Hari Kiran	CIVIL	Environmental Engineering Lab
6	Software Engineering	Dr. K. Narender Reddy	CSE	Computer Programming/UNIX Programming Lab
7	Information Systems	Prof. L. C. Siva Reddy	CSE	Web Technologies & CD Lab
8	Network Security	Prof. Badrinarayana	CSE	Computer Networks and Case tools lab
9	Data Ware Housing and Data Mining	K. Venkateshwara Rao, C. Ramesh	CSE	Data Mining and Network Programming Lab
10	Computer Networks	B. Rambabu	CSE	Computer Networks Case tool Lab
11	VLSI	Dr. K. Lal Kishore	ECE	VLSI Laboratory
12	Antennas/Communications	Dr. K.S. Nayanathara	ECE	VNA, Digital Storage Oscilloscope
13	Communications/VLSI/ES	Prof. S. Sengupta	ECE	Cadence tools, Kiel Software
14	Digital Design	Prof. C. Venkat Rao	ECE	Xilinx ISE Software, FPGA Kits
15	Embedded Systems	Prof. S. Subramanyam	ECE	KIEL Software, ARM Processors
16	Wireless Communications /Software Defined Radio	Prof. Varghese Thattil	ECE	GNU Radio and Hack RF hardware
17	Microwaves	Prof. P. Viswanath	ECE	Microwave Laboratory

18	Wireless Communications	Dr. Rajarshi Mahapatra	ECE	Communication Toolbox
19	VLSI	Dr. T. Esther Rani	ECE	Cadence Tools
20	Adhoc Networking/Communications	Dr. Humaira Nishat	ECE	Communication Toolbox, Digital Storage Oscilloscope
21	Microwaves	Dr. Lalithendra	ECE	Microwave Laboratory
22	Power systems	Dr. K. Dhanvantri	EEE	Power Systems Lab
23	Power Electronics & FACTS Devices	Dr. S. Venkateshwarlu	EEE	Power Electronics and Simulation Lab
24	Applications of Power Electronics to Power systems, Power Electronics & Drives, Multi Level Inverters, Photo Voltaic Converters.	Dr. N. V. V. Surendra Babu	EEE	Power Electronics
25	Power Electronics & Electrical drives	Mrs. G. Sree Lakshmi	EEE	Power Electronics & Electrical Machines
26	Power Electronics & Electrical drives	Mr.G.Manohar	EEE	Power Electronics
27	Power Systems	Mr.B.KalyanaChakravarthy	EEE	Power Systems
28	Power Systems	Mrs.R.NaveenaBhargavi	EEE	Power Systems
29	Power Electronics & Electrical drives	Mr.A.Naveen Kumar	EEE	Power Electronics
30	Power Electronics & Electrical drives	Mr.Ch.Lokeshwar Reddy	EEE	Power Electronics & Electrical Machines
31	Power Systems	Mr.P.Rajesh Kumar	EEE	Power Systems
32	Instrumentation and Control Systems, Advanced Instrumentation Systems	Dr.M. S.Bhat	EIE	LAB View Software and PID Controller
33	Advanced Electronics and Communication	Mr. S.Narayana	EIE	LAB View Software
34	Instrumentation and Control Systems	Mrs. S. Harivardhagini	EIE	LAB View Software and PID Controller
35	Advanced Electronics and Communication	B. Satish	EIE	LAB View Software
36	Electronics and Digital systems	O.Venkata krishna	EIE	Cadence Tools
37	Advanced Instrumentation Systems	P. Chodesh Varma G. Venkateswrlu	EIE	LAB View Software and PID Controller
38	English	Ms. Vanitha Singi Reddy	H&S	Advanced English Communication Lab
39	Mathematics	Dr. K. Satyanarayana	H&S	Computational Mathematics Lab
40	Applications of Neural	Dr. M. Krishna Reddy	H&S	Statistics

	Networks in Forecasting			
41	Physics	Dr. E. Narsimhacharyulu	H&S	Physics Lab
42	Chemistry	Dr. Suchi Tiwari	H&S	Chemistry Lab
43	Operating Systems/ Network Security	Prof. U.V. Ramana Sarma	IT	UNIX & Shell prog. Lab.
44	Computer Networks/ Computer Forensics	Dr. B. B. Jaya Singh	IT	Computer Networks Lab
45	Embedded Systems	Dr. R. Seetha Ramaiah	IT	Embedded System Design Lab
46	Data mining& Business Analytics	Mr. C.V.S. Satyamurthy	IT	DBMS Lab
47	Network Security	Mrs. E.Jyothi Kiranmayee	IT	Computer Networks Lab
48	Operating Systems	Mr.B.Vikranth	IT	Linux Programming Lab
49	Production Engineering	Dr. T. A. Janardhan Reddy	MECH	Machine Tools Lab
50	Production Engineering	Dr. S. Deva Prasad	MECH	CAD/CAM Lab
51	Mitsubishi Electric Lab	Mr.G.Venkateswarlu	EIE	Mitsubishi Projects Lab

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/projects?

➤ **Advancing funds for sanctioned projects**

The College management advances funds whenever necessary to sanctioned projects to accelerate progress of the projects.

For some projects, around 20% of the total funds are borne by the management awaiting reimbursement after completion of projects.

In cases where some additional equipment is necessary, funds are sanctioned immediately to augment the facilities for the project.

Eg: MODROBS for communication lab

--Vector Network Analyzer (VNA) and accessories for microwave devices and antennas.

➤ **Providing seed money**

Projects within the college are supported by the management. Seed money is provided for research schemes—

Eg:

1. RFID Project
2. XY recorder along with general PCB preparation.
3. Under Vehicle scanner.
4. Quad copter applications.
5. Design of Diode clamped multilevel inverter.
6. Software Defined Radio.
7. Seed funding of Mitsubishi Project

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

The Principal investigator or coordinator possesses full powers (including financial powers) to steer the research scheme/project in the required direction. A separate R&D account is maintained for the project, operated as per requirements.

➤ **Timely release of grants**

Grants sanctioned for research projects are released whenever expenses are to be met by the research team, as per the advice of the Principal coordinator.

➤ **Timely auditing**

Audit of accounts is carried out at regular intervals.

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

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

3.1.5 How is interdisciplinary research promoted?

➤ **Between/among different departments of the College**

Interdisciplinary research between departments of the College is promoted through discussions between senior faculty members of various departments to identify such projects with generous funds from the management.

The projects completed and in progress under this category are listed below:

1. RFID—ECE, CSE, IT—Completed-Rs.18.5 lakhs spread over 2009-11
2. Solar—EEE, MECH – Completed-Rs.125 lakhs with Rs.30 lakh subsidy initially from Govt. of India. 280KWP is the total installed capacity with an investment of about Rs.2 crores.
3. XY recorder, under vehicle scanner—ECE, MECH, EEE—in progress
4. Quad copters—ECE, MECH, EEE, CSE—in progress
5. Project with BHEL— Joint work between ECE, CSE and IT.
6. Mitsubishi Electric Cup - EEE/EIE - in progress

➤ **Collaboration with National/International Institutes /Industries.**

Collaboration is forged between departments of the College and industries of repute, national and international. Some of such projects are as mentioned below.

1. Development of OFDM, Design of DAS hardware and DAS Software as part of DRDO Projects.-Rs. 25 lakhs sanctioned by DRDO and completed.
2. ECIL: A project on “Intrusion Detection” is in progress with continuous interaction with the personnel of ECIL who have already visited the college twice and scheduled to visit a third time for the demonstration of the project.
3. MODROBS→ Used by M.Tech students for projects – Rs. 10.8 lakhs of AICTE grant has been spent.
4. CADENCE→VLSI Design tools and licenses for B.Tech and M.Tech labs and Projects as part of Cadence University program based on MoU signed with Cadence, New York.
5. INTEL Projects-MoU signed between CVR, JNTU Hyderabad and Intel, Bangalore to organize 5 day seminar sponsored by Intel. 60 Faculty from 30 Engineering colleges have participated in the seminar held during 2003-04.
6. Projects in RCI(M.Tech)
7. Mitsubishi Project Lab & Pega Lab

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

Researchers from ISRO, DRDO, NRSC, IITs and Universities are invited to the campus frequently. They interact with faculty members giving pointers to the areas in which research is in progress in their organizations. Senior Professors work on proposals for projects in specific areas of interest and carry out research, on procuring the project sanction.

Eminent scientists and researchers are invited to deliver lectures in current research areas, enlightening and encouraging junior faculty members to carry out research leading to pursuance of their doctorates.

Through lectures by experts from the industry and research organizations, students are introduced to various fields in which they can carry out their project work.

A few of the visits to the College by eminent researchers are listed as under:

S.No	Name of the expert	Guest Lecture Topic	Date
1	Dr. N Narayana, Professor, CVR College of Engineering	Cement: An overview of Manufacturing process & properties	5 th September 2015
2	Er.N Suresh & Mr.G. Ravi Kiran, Technical Engineer & Sales Engineer, BASF, Hyderabad.	Role of Construction Chemicals in the World of Concrete	23 rd July 2015
3	Dr. Amarnath Reddy , Associate Professor, IIT Kharagpur	Smart Cities: Boon for Infrastructure Opportunities.	07 th July 2015
4	Sri.Krishna Sandepudi, Vice President, Aarvee Associates Pvt. Ltd, Hyderabad	Behavior of Continuous Structures & Segmentally Constructed Bridges	17 th October 2014
5	Sri.P.D.Varadarajan, Vice President, VASCON Engineers Ltd, Pune	Shuttering Systems & Their Significance in Construction Sector	14 th October 2014
6	Sri.M.Sridhar, Vice President, SEW Infrastructure, Hyderabad	Career Opportunities & Employable Skills for Civil Engineers	22 nd September 2014
7	Dr.K.Srinivasa Raju, Professor, BITS Pilani, Hyderabad	Recent Developments in Water Resources Engineering-Case Studies	12 th August 2014
8	Dr.M.V.Seshagiri Rao, Professor, JNTU,Hyderabad	Latest Developments in Concrete Technology	23 rd January 2014
9	Mr.Krishna Sandepudi, Vice President, Aarvee Associates Pvt.Ltd, Hyderabad	Behavior of Continuous Structures & Segmentally constructed Bridges	17 th October 2014
10	Mr.P.D.Varadarajan, Vice President, VASCON Engineers Ltd, Pune	Shuttering Systems& their significance in construction sector	14 th October 2014
11	Mr.M.Sridhar, Vice President, SEW Infrastructure, Hyderabad	Career Opportunities & Employable Skills for Civil Engineers	22 nd September 2014
12	Dr.K.Srinivasa Raju, Professor, BITS Pilani, Hyderabad	Recent developments in water resources Engineering-Case studies	12 th August 2014
13	Dr.M.V.Seshagiri Rao, Professor, JNTU, Hyderabad	Latest Developments in Concrete Technology	23 rd January 2014
14	Mr.M.V.Ramana Murthy, Executive Engineer, APGENCO, Hyderabad	Planning & Construction of Hydro Power Projects	27 th December 2013
15	Mr. Pranil Kandheri, CTO and Co-founder, Mokriya Inc, USA	Mobile is eating the world	15 th December 2015

16	Mr. Murthy A.S	Information security Education and awareness	7 th December 2015
17	Mr. M.L.Sai Kumar, Prof.(Retd.), IPE,OU, Hyderabad	Software Testing	13 th November 2015
18	Mr. Pawan Shukla, Microsoft, Hyderabad	Internet Of Things	16 th October 2015
19	Dr. Suresh Chandra Satapathy, Member Execom, CSI	Talk on projects for final year students.	9 th November 2015
20	Ch Sai Kiran , Member Alma Mater, Oracle	Enterprise Mobile Application Development	12 th September 2015
21	K Srinivasa Rao, Principal Solution Architect, Tech Mahindra	ETL process- Data warehouse	5 th September 2015
22	K Srinivasa Rao, Principal Solution Architect, Tech Mahindra	Testing and Quality Assurance	29 th August 2015
23	Mr Harsh H Shah, Member Alma Mater	Internet Of Things	4 th July 2015
24	Mr D. Ranjit – Alumni CSE, Bank of America	Intensive hands on session on Hadoop and Big Data	9 th October 2014
25	Dr. D Sudheer Reddy- Scientist E, ISRO	Sparse Representations and their Applications	20 th September 2014
26	MS. L Milinda -Ph.D Scholar from Stanford University	The Computational Models to Tackle Malnutrition	15 th September 2014
27	ICAI	Investor Awareness Program	2014
28	Mr. K. Amarnath, IIT Bombay	Password Security by Captchas	2014
29	Mr.Kashyap Ivaturi from Amazon	Virtualization	14 th April 2014
	Dr. Atul Negi, Professor, School of Computer& Information Science University of Hyderabad	Computational Intelligence and Excitements	28 th March 2014
30	Kausik Sirineni Ms, University of Texas at Dallas	Augmented reality	6 th January 2014
31	RaghuVeer, Software Engineer, IBM	Personality Development	23 rd November 2013
32	RaghuVeer, Software Engineer, IBM	Software Development using Java	23 rd November 2013
33	Dr.Samrat Sabat, Assoc. Prof., HCU, Hyderabad.	Initiation of Research Activities	18 th April 2015
34	Santhosh Arjun Product Manager , Orvito, Inc	Internet of Things	31 st July 2015
35	Mr. P Sudhakara Rao, GM NWP CM, BSNL, AP & Telangana	Evolution and Future of Mobile Communication in India	2 nd September, 2015
36	Dr. Cyril Prasanna Raj, Dean- Research MSR Engineering College, Bangalore	ISRO funding and national science & Technology Entrepreneurship Development Board Funding(NSTEDB)	27 th November,2014

37	Dr.B.L.Deekshathulu, Former Director,NRSA	Advances in Digital Image Processing	7 th October, 2014
38	Prof.V.M.Pandharipande	Smart Antennas	(As part of Distinguished Lectures for initiation of Research Activities)
	Prof.A.D.Sarma, Professor,OU,Former Director R&T unit of Navigational Electronics	Navigation Electronics	
	Prof.K.S.Bapi Raju, UOH	Functional MRI & Appls.	
	Dr.A.Senthil Kumar, Scientist NRSC	Image processing in remote sensing	8 th October, 2014
39	Dr.Anil Kumar, Professor, IIIT-H.	Current topics and challenges in Speech processing	(As part of Distinguished Lectures for initiation of Research Activities)
40	Prof.V.Umapathi Reddy, Visiting Professor, IITH	Basics of Digital Signal Processing and communications	
41	Dr.K.Veerabhadra Rao,Former Scientist Defence labs	Digital Signal Processing for Biomedical applications	17 th February, 2014
42	Mrs.Lakshmi Tiwari, Scientist E, DLRL, Hyderabad	Satellite Communications and Electronics Warfare for communications	29 th January, 2014
43	Dr.Aravind Kumar Bhatt	Nano technology: Opportunities in life sciences	11 th December,2013
44	Mr.T.S. Rashad, Scientist E, VLSI Division of RCI,DRDO	Latest trends in VLSI Design	25 th November,2013
45	Mr.Harinath Babu	Techniques of Broadcasting	3 rd November, 2011
46	Dr.Surendra Pal	Latest Advances in communication	3 rd November, 2011
47	Dr.Gunashekhar Reddy, DIG of Police Commn. Hyd.	Communications for Disaster Management	26 th August, 2011
48	Mr. Rama Murthy Retd. Joint Director Advanced technical Institute (Ministry of Labour)	New trends in Industrial Automation	30 th January, 2015
49	Mr.S.Pranavanand, Associate Professor, VNR VJIT, Hyderabad	Virtual Instrumentation	10 th March, 2014
50	Mr.D.S.R.B.N.Baba Superintendent ENgg (Retd), DD Kendra, Hyderabad	Maintenance of Studio Equipments	3 rd November, 2011
51	Mr.V.Madhukar,Branch manager, Prolific Systems, Hyderabad	Industrial Automation and Career options	13 th September, 2011
52	Dr.P.V. Rajgopal	Power Electronic application for Transportation Systems	22 nd September, 2015
53	Mr .Srinivas Dinavahi, Engineer Raheja Corporation	Understanding Building Electrical Services	25 th July, 2015

54	Dr.Y.Pradeep Kumar IITH	Smart Grid Systems	6 th April, 2015
55	Mr. M. Gopala Krishna, Retd. IAS	Student-Future	22 nd September 2014
56	S.Eshwar Rao, Sr.Manager, BHEL R&D	Role of STATCOM in power systems	22 nd September 2014
57	Mr.PhaniVasista, USA	Into The Future Career guidance –Focus on Masters abroad.	23 rd July, 2014
58	Mr.Mahesh, Executive Engineer, Power Grid Corporation, India	Smart Grid	17 th February, 2014
59	Dr.V.T.Soma Shekar, Professor, NIT Warangal	Power Electronics and Applications	5 th February, 2014
60	Mr.Chamarthi Srinivas, CEO,CYME Solutions Pvt.Ltd	Signal Processing Applications in Power Electronics and Control systems	9 th January, 2014
61	Dr.D.P.Kothari, Retd.Professor,IIT Delhi, Ex.V.C.VIT,Vellore	Energy and Environmental Problems facing the third world and solutions	6 th March, 2013
62	K.B.Rju, Ex.AGM BHEL R&D	Recent Advances in Power systems	5 th March, 2013
63	M.V.Ramana Murthy, Executive Engineer, APGENCO	Planning and construction of Hydro power plants	27 th December, 2013
64	Dr.N.K.Kishore, Professor, EEE Dept., IIT Khargpur	Recent Advances in Electrical Engineering	26 th October, 2012
65	R.Sundara Rajan, Scientist-G, DRDL,Hyderabad	Missile Systems	March 2012
66	Prof.Kiran Kumar Jain, Rtd S.E,Madhya Pradesh State Electricity Board	Synchro Phasor Deployment in Northern Grid of India	22 nd Nov 2011
67	Mr.Bangar Raju, Additional General Manager,BHEL(Rtd.)	Advances in transformers	26 th August,2011
68	R.Sundara Rajan, Scientist-G, DRDL,Hyderabad	Controller Design of Missile systems	July 2011
69	Mrs.R.Sravanthi, Manager ,L&D Infotech, Hyderabad	Corporate communication	1 st November 2008
70	Mr.V.Madhukar, Branch Manager,Prolific Systems, Hyderabad	Industrial Automation and Career Options	13 th September, 2011
71	Mr.D.S.R.B.N.Baba, Superintendent Engineer(Rtd),D.D.Kendra Hyderabad	Maintenance of Studio Equipments	3 rd November, 2011
72	Mr.H K Mohanty Professor in HCU	Computational Social Science: Introducing an Emerging Area	25 th March 2014

73	Mr.Sarangadhar Tripathy, Software Solution Architect in HP	Ethical Hacking and Counter Measures	8 th October 2013
74	Mr.S.Pani Kumar, Sr. System Engineer(QA), IBM India Pvt Ltd	Ethical Hacking and Counter Measures	11 th October 2012
75	Mr. Sarangadhar Tripathy, Sr. Technical Consultant, IBM	Basics of Testing	9 th November 2011
76	Prof.N.S.Ramachandra Rao,IIT Madras	Physics and applications of Nano structures and advanced materials	6 th June, 2014
77	Dr.D.Sudheer Reddy, Scientist-E ISRO	Sparse representations and their applications	20 th September,2014
78	Dr.M.Krishana Reddy, Prof. in Statistics	Applications of Statistics in real life	1 st February, 2014
79	Dr.K.Satyanarayana, Prof.in Mathematics	Application of Fibonacci numbers	5 th October, 2013
80	Osmania University	Entrepreneurship Awareness Camp	19 th -21 st January, 2016
81	SAE India & Robosapiens	SAE Club Inauguration & Automotive Mechanics	19 th -20 th September, 2014
82	Osmania University	Entrepreneurship Awareness Camp	4 th -6 th September , 2014
83	IIT, Mandi and ABLab Solutions	ROBO GRAVITY	28 th February to 01 st March, 2014
84	TERA INC.	The Science of Aircraft	23 rd to 25 th January, 2014
85	OU,DMRL, UOH	Engineering Research Methodology	17 th to 18 th January 2014
86	Osmania University	Entrepreneurship Awareness Camp	19 th to 21 st September 2013
87	Ramky group	Learning Outcomes	16 th March, 2013
88	Osmania University, DRDL, NIT - Warangal	CAD/ CAM for Enhanced Quality	21 st to 23 rd February, 2013
89	Osmania University	Entrepreneurship Awareness Camp	20 th to 22 nd December 2012

This practice has given impetus to research in the college. Collaborative research projects have been executed in the college; the number of faculty members pursuing Ph. D has increased as well.

3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

Faculty members pursuing post doctoral and doctoral work are provided leave with full pay and contingent allowance for journals, books and travel. Senior professors are provided leave as the research work necessitates.

This provision has enthused faculty members to take up research work, apply for project funding, author technical papers, participate in conferences, guide projects on current topics at the graduate level. The list of faculty members who were sanctioned sabbatical leave to pursue research is detailed below.

S No	Name of the Staff	Department	Designation	Type of Leave with salary
1	B.Uma Radha	CIVIL	Associate Professor	Study leave for 7 Months
2	K. Venkateshwara Rao	CSE	Associate Professor	Study leave for 8 Months
3	A. Vani Vathsala	CSE	Associate Professor	Study leave for 7 Months (2 times)
4	C. Ramesh	CSE	Associate Professor	Study leave for 7 Months(2 times)
5	Ch. Ram Mohan	CSE	Associate Professor	Study leave for 7 Months
6	C. V. S. Satyamurthy	CSE	Associate Professor	Study leave for 7 Months
7	M. Raghava	CSE	Associate Professor	Study leave for 4 Months & 7 Months(2 times)
8	B. Rambabu	CSE	Associate Professor	Study leave for 7 Months(2 times)
9	M.Sunitha	CSE	Associate Professor	Study leave for 7 months (twice)
10	Mr. V. Dattatreya	CSE	Associate Professor	Study leave for 7 months
11	Prof. Vargese Thatill	ECE	Professor	Study leave for 7 Months (2 times)
12	Dr. T. Esther Rani	ECE	Associate Professor	Study leave for 7 Months
13	P. Srinivasa Rao	ECE	Associate Professor	Study leave for 1 Months
14	Dr. Humaira Nishnat	ECE	Associate Professor	Study leave for 2 Months
15	Mr. Karar Hussain	ECE	Associate Professor	Study leave for 7 Months
16	Mrs. K. A. Jyotsna	ECE	Associate Professor	Study leave for 7 Months
17	G. Ravi Shankar Reddy	ECE	Associate Professor	Study leave for 7 months

18	Dhruva R.Rinku	ECE	Associate Professor	Study leave for 7 months
19	Mrs. G.Sree Lakshmi	EEE	Associate Professor	Study leave for 7 Months
20	Mrs. R. Naveena Bhargavi	EEE	Associate Professor	Study leave for 7 Months(2 times)
21	Mr. T. Murali Krishna	EEE	Associate Professor	Study leave for 7 Months
22	Mr. B. Kalyanchakravarthi	EEE	Associate Professor	Study leave for 7 Months(2 times)
23	Mr. P. Nagaraju	EEE	Associate Professor	Leave for Paper presentations
24	Mrs. S. Harivardhagini	EIE	Associate Professor	Study leave for 7 Months(2 times)
25	Ms. Vanitha Singireddy	H&S	Asst. Professor	Study leave for 2 Months
26	Dr. Suchi Tiwari	H&S	Asst. Professor	Study leave for 3 years
27	Dr. Raghavendra Kulkarni	H&S	Asst. Professor	Study leave for 5 Months
28	Mr. P. V. S. H. Sastry	H&S	Asst. Professor	Study leave for 7 Months
29	Dr. R. Seetharamaiah	IT	Professor	Study leave for 7 months(2 times)
30	Prof.U.V.Ramana Sarma	IT	Professor	Study leave for 7 months
31	Dr. K. Narendra Reddy	IT	Professor	Study leave for 7 months(2 times)
32	Mrs. H. N. Lakshmi	IT	Associate Professor	Study leave for 7 Months
33	Mr. B. Vikranth	IT	Associate Professor	Study leave for 7 Months
34	Mrs.E.Jyothi Kiranmayeee	IT	Associate Professor	Study leave for 7 Months
35	G.Mrudula	MECH	Sr.Asst. Professor	Study leave for 6 months

List of faculty members who have utilized weekly one day leave off during the PhD/Research work.

S.No	Name of the faculty	Department	Designation	Type of Leave
1	Dr. T. Esther Rani	ECE	Associate Professor	Weekly off
2	Dr. Humaira Nishat	ECE	Associate Professor	Weekly off
3	Mrs. A. Bharathi	ECE	Associate Professor	Weekly off
4	Mr. G. Ravi Shankar Reddy	ECE	Associate Professor	Weekly off
5	Mr. Karar Hussain	ECE	Associate Professor	Weekly off
6	Mr. P. Srinivasa Rao	ECE	Associate Professor	Weekly off
7	Mrs. K. A. Jyotsna	ECE	Associate Professor	Weekly off
8	Mrs. Dhruva R. Rinku	ECE	Associate Professor	Weekly off
9	Mr. Lokeswar Reddy	EEE	Associate Professor	Weekly off
10	Mr. I. N. Swamy	EEE	Associate Professor	Weekly off
11	Mr. B. Kalyan Chakravarthy	EEE	Associate Professor	Weekly off
12	Mrs. R. Naveena Bhargavi	EEE	Associate Professor	Weekly off
13	Mrs. S. Harivardhagin	EIE	Associate Professor	Weekly off

14	Dr. R. Seetharamaiah	IT	Professor	Weekly off
15	Mrs.H. N. Lakshmi	IT	Associate Professor	Weekly off
16	Mr.B. Vikranth	IT	Associate Professor	Weekly off
17	Mr.M.Srinivas	IT	Assistant Professor	Weekly off
18	Mr. P. Sainath	MECH	Assistant Professor	Weekly off
19	Mr. G. Naveen Kumar	MECH	Assistant Professor	Weekly off
20	Ms. A. Vani Vathsala	CSE	Associate Professor	Weekly off
21	M.Raghava	CSE	Associate Professor	Weekly off
22	Suguna Mallaika	CSE	Sr. Assistant Professor	Weekly off
23	Ms. B. Uma Radha	Civil	Associate Professor	Weekly off

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

S.No	Name of conference	Name of eminent scientist/ Scholar/Industry Person	Duration
1	Two day workshop on Public key Infrastructure	Dr Misbahuddin, CDAC , Bangalore	21 st and 22 nd January 2016
2	Two day workshop on Internet of Things	Sri. Pawan Shukla, Microsoft, Hyderabad	4 th and 5 th December 2015
3	Two Day National Conference on Rough Sets and Knowledge Discovery	Dr. Yagnanarayana, IIIT Hyd. Dr. Sastri, IIT Hyderabad Dr. P S V S Sai Prasad, UOH, Hyd	8 th and 9 th November 2015
4	One Day Workshop on “Big Data & Map Reduce Algorithm on Twister Runtime”	Mr S Hitesh , Dr.P.S.V.S. Sai Prasad, University of Hyderabad	1 st August 2015
5	One Day Workshop on “Configuring Cloud & Programming Model C#.Net”	Mr. Raghavendra K Scientist F ADRIN	25 th July 2015
6	Two day workshop on “IFC3” India's First Cloud Computing Championship	Ch.Ram Mohan, Assoc.Prof of CSE Dept and IIT Bhubaneshwar	20 th and 21 st February 2015
7	Two day workshop on Big Data	Prof T. Eshwar, Professor CSE	16 th and 17 th Jan, 2014
8	Conference on Computer Vision Industry Institute Partnership Cell(IIPC)	Mr. Chakravarthy, DRDL	6 th -7 th March, 2014
9	Three day Training on Cadence Tools(Installation & Practice)	Mr.Sharath, Cadence Design Systems, Bangalore	10 th -12 th November, 2014
10	Workshop on VLSI Design using Xilinx Tools	Mr.M.Sharath Kanth, Xilnx	2 nd -3 rd December 2010
11	Faculty Development Programme (FDP) on the topic Recent-Trends in Automation and Control	Professors from JNTU,OU and from relevant Industries , Professors from CVRCE	Two weeks From 11 th to 22 nd November 2013

12	Cloud Computing and Hadoop technology.(Under guidance of IIT Bhubaneswar)	IIT Bhubaneswar	20 th -21 st February 2015
13	3D GAME DESIGNING AND SCRIPTING	Virscen Technologies Pvt. Ltd (Microsoft Partner & IITKharagpur Alumni Venture)	13 th March, 2014
14	CAD/ CAM for Enhanced Quality	Osmania University, DRDL, NIT - Warangal	21 st – 23 rd February, 2013
15	Formulations of Research and Development Initiatives	Osmania University, IIITH, HCU and DRDL	14-15, November 2014
16	2 Day Workshop on “ROBO SAPIENS	Mr.S.Rakesh, Asst. Prof. CVRCOE	19 th and 20 th September 2014
17	Three Day Workshop on “Entrepreneurship Awareness Camp”	Resource persons from APITCO, IPO, APSFC, DIC, Banking Sector	4 th to 6 th Sept. 2014
18	Two Day Workshop on “Robo Gravity” in association with IIT Mandi	Experts from IIT Mandi	28 feb 2014 and 1 march 2014
19	3 day workshop on “The Science of Aircraft” Computing Championship	Prof.T.A.Janardhan Reddy HOD,Mech.	23 th to 25 st January 2014
20	2 day workshop on Engineering Research Methodology	Prof C.Raghavendra Rao (UoH), Dr.Sriram Venhatesh (OU)	17 th and 18 th Jan, 2014

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).

The following research findings are indicative of the initiative taken for research findings to be transferred to the community.

1. Mobile phone control of bore well.
2. Watering fields based on moisture content of the soil.
3. Pest control through scanning by quad copters.
4. Field trials of OFDM/Data acquisition of defense applications.
5. Under vehicle scanner.
6. XYZ scanner.

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

S.No	Name of Research Activity	Nature of the work	Name of Faculty member	Client/ Organization	Department
1	Individual	Working for Ph.D	B.Uma Radha, Assoc. Professor	JNTU Hyderabad	Civil
2	Individual	Working for Ph.D	N.Ramanjaneyulu, Asst. Professor	JNTU Ananthapur	Civil

3	PhD Guidance	As Ph.D Guide	Dr.K.V.Chalapathi Rao, Professor	Guided 7 Ph.D scholars 3 are working	CSE
4	Individual	Ph.D-Software Engineering	K. Venkateswara Rao, Professor	JNTU Hyderabad	CSE
5	Individual	Working for Ph.D	C. Ramesh, Assoc. Professor	JNTU Hyderabad	CSE
6	Individual	Working for Ph.D	M. Raghava, Assoc. Professor	University of Hyderabad	CSE
7	Individual	Working for Ph.D	Ch. RamMohan, Assoc. Professor	JNTU Hyderabad	CSE
8	Individual	Working for Ph.D	B. Rambabau, Assoc. Professor	Osmania University	CSE
9	Individual	Working for Ph.D	V. Dattatreya, Assoc. Professor	JNTU Hyderabad	CSE
10	Individual	Working for Ph.D	Ms. A. Vani Vathsala, Assoc. Professor	University of Hyderabad	CSE
11	Individual	Working for Ph.D	M. Suneetha, Assoc. Professor	JNTU Hyderabad	CSE
12	Individual	Working for Ph.D	L.Venkateshwarlu, Assoc. Professor	JNTU Ananthapur	CSE
13	Individual	Working for Ph.D	A. Malla Reddy	JNTU Hyderabad	CSE
14	Individual	Working for Ph.D	Ch.Sarada, Asst. Professor	Sri Venkateshwara University	CSE
15	Individual	Working for Ph.D	N.Satyanarayana, Asst. Professor	OU	CSE
16	Individual	Working for Ph.D	Suguna Mallika, Asst. Professor	JNTU Kakinada	CSE
17	Ph.D Guidance	As Ph.D Guide	Dr. K. Lal Kishore, Professor & Dean Research	Guided 21 Ph.D scholars	ECE
18	Student Research projects	Ph.D Guidance	Dr. Nayanathara K.S, Principal	Guiding 3 Ph.D scholars	ECE
19	Research Project	1. Development of OFDM 2. Design of DAS Hardware 3. Design of DAS Software	Prof. S. Sengupta, Director Projects	DRDO	ECE
20	Individual	Ph.D	Dr. T. Esther Rani, Professor	JNTUH	ECE
21	Individual	Ph.D	Dr. Humaira Nishat, Professor	JNTUH	ECE
22	Research Project	Development of OFDM	Mr. R. Ganesh, Sr.Asst.Professor	DRDO	ECE

23	Research Project	1. Design of DAS Hardware 2. Design of DAS Software	Mr. K. Bapayya, Asst. Professor	DRDO	ECE
24	Research Project	Design of DAS Software	Mrs. M. Rupa, Asst. Professor	DRDO	ECE
25	Individual	Working for Ph.D	Mrs. A. Bharathi, Assoc. Professor	OU	ECE
26	Individual	Working for Ph.D	Mr. G. Ravi Shankar , Assoc. Professor		ECE
27	Individual	Working for Ph.D	Mr. P. Srinivasa Rao, Assoc. Professor	JNTUH	ECE
28	Individual	Working for Ph.D	Mr. Karar Hussain, Assoc. Professor	JNTUH	ECE
	Individual	Working for Ph.D	Mrs. K. A. Jyotsna, Assoc. Professor	JNTUH	ECE
29	Individual	Working for Ph.D	Mrs. Dhruva R. Rinku, Assoc. Professor	JNTUH	ECE
30	Individual	Working for Ph.D	Mr.B.Janardhana Rao, Asst. Professor	JNTUK	ECE
31	Individual	Working for Ph.D	Ms.A.Malleswari, Asst. Professor	JNTUK	ECE
32	Individual	Working for Ph.D	Ms.V.Ramadevi Asst. Professor	Gitam University	ECE
33	Individual	Working for Ph.D	Ms.V.Silpa Kesav ,Asst. Professor	JNTUH	ECE
34	Individual	Working for Ph.D	Ms.T.Sravanthi, Asst. Professor	OU	ECE
35	Research Project	Solar Power Plant	EEE Department	CVR College of Engg	EEE
36	Student Research projects	PhD Guidance	Dr. S. Venkateswarlu, Professor & HoD	JNTUH/2012	EEE
37	Student Research projects	Ph.D Guidance	Dr. A. D. Raj Kumar, Professor	1-O.U. 2-JNTU	EEE
38	Student Research projects	Ph.D Guidance	Dr. Dhanvanthri, Professor	JNTUH/2013	EEE
39	Individual	Ph.D-Analysis of Multilevel Inverters for Permanent Magnet Synchronous Motors	G. Sree lakshmi, Assoc. Professor (Thesis Submitted)	JNTUH	EEE

40	Individual	Working for Ph.D	R. Naveena Bhargavi, Assoc.Professor	OU	EEE
41	Individual	Working for Ph.D	B. Kalyana Chakravarthy, Assoc.Professor	OU	EEE
42	Individual	Working for Ph.D	A. Naveen Kumar, Assoc.Professor	NU	EEE
43	Individual	Working for Ph.D	Ch. Lokeshwar Reddy, Assoc.Professor	JNTUH	EEE
44	Individual	Working for Ph.D	I. N. Swamy, Assoc.Professor	JNTUH	EEE
45	Individual	Working for Ph.D	Mr. G. Manohar, Assoc.Professor	JNTUK	EEE
46	Individual	Working for Ph.D	Mrs. Ch. Sravani, Asst. Professor	JNTUK	EEE
47	Individual	Working for Ph.D	PhaniKumar.K.S.V, Asst. Professor	JNTUH	EEE
48	Individual	Working for Ph.D	Mrs. S. Harivardhagini, Assoc.Professor	JNTUH	EIE
49	Individual	Working for Ph.D	Mr.B.Satish, Assoc.Professor	JNTUH	EIE
50	Ph.D Guidance	As Ph.D Guide	Dr. M. Krishna Reddy, Professor	Guided 14 Ph.Ds, 10 M.Philss & 15 NBA Projects	H&S
51	PhD Guidance	As Ph.D Guide	Dr.B.B.Jaya Singh, Professor	Guiding 5 PhD scholars	IT
52	Individual	Ph.D-Data Mining	C. V. S. Satya Murty, Assoc. Professor	JNTU Hyderabad	IT
53	Individual	Working for Ph.D	Mr. B. Vikranth, Assoc.Professor	University of Hyderabad	IT
54	Individual	Working for Ph.D	Mrs.E.Jyothi Kiranmayeee, Assoc.Professor	JNTUH	IT
55	Individual	Working for Ph.D	M.Srinivas, Asst.Professor	OU	IT
56	Individual	Working for Ph.D	G.Mrudhula, Sr. Asst.Professor	Osmania University	MECH
57	Individual	Working for Ph.D	G.Naveen Kumar, Asst. Professor	Bits Pilani, Hyderabad	MECH
58	Ph.D Guidance	Ph.D Guidance	Dr.N.V.Rao,Professor	Guiding 2 scholars	CSE

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

The College provides budget for research as part of total budget for the following activities.

- In-house journal publication and for each paper published Rs. 10000/20000 incentives.
- To conduct and attend Seminars/Workshops.
- To purchase new equipments/software for research activity.
- Ph.D scholar allowances.
- Research paper publication allowances up to Rs.20000/- per paper published.

Allocation of Budget: Allocated average Rs 6 Lakhs per annum by institute.

Average amount spent: 5.5 Lakhs

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

- Cash award of Rs.6000 for best project at departmental and college levels.
- Registration fees and travel allowance for student paper publication in journal/conferences is reimbursed by the college.
- Financial assistance for purchasing equipment/software.

CIVIL:

- Rs 20000/- was spent for procuring ETABS2013 & SAP2000 software from Computers and Structures Inc. through NICEE(National Information Centre on Earthquake Engineering-IIT Kanpur).

ECE:

- Approximately Rs.2.5 Lakhs to Rs.3 Lakhs per year is accorded and remitted in US dollars towards Cadence tools renewal to support academic and research work in the field of VLSI.

MECH

- The College provided funding for establishment of “Team Projects Lab” for encouraging students to do research projects with a budget of Rs.1,00,000 per annum.

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

Yes, there is a provision in the College to provide seed money to faculty for research. The following table provides the list of projects which utilized the seed money.

S.No	Name of Project	Faculty Name	Seed Money	Department
1	ROBO SOCCER	Prof. Varghese Thattil Mr. G. Ravi Shankar Reddy	Rs.68,500	ECE
2	Automatic bore switching	Mr. Shakeel Ahmed	Rs. 6,000	ECE
3	Design of Diode Clamped Multilevel Inverter	Mr. Vinod	Rs. 95,000	EEE
4	Investigation into PAPR in Wireless Communications	Ms. T. Padmavathi Ms. T. Sravanthi	Rs. 59,800	ECE
5	Mitsubishi Projects	Mr.G.Venkateswarlu	Rs.40,000+	EIE
6	UAV Projects Dromes	Prof.Subramanyam	Rs. 6.8 lakh	ECE

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

Yes, the College makes efforts to encourage the faculty to file for patents. The following faculty member has filed for patent and got approval.

Dr. Esther Rani submitted a patent application, which was accepted and published in “The Official Journal of the Patent Office”, issue number 22/2014 with application number 2376/CHE/2013 A and publication date as 30/05/2014. Recently, she received UGC faculty fellowship for a period of 2 years with full salary reimbursement and project allowance of Rs. 3 lakhs by UGC.

3.2.5 Provide the following details of ongoing research projects:

College funded	Year Wise	Name of the project	Name of the funding agency/Industry	Total Grant Received
Along with Industry	2014-15	Design and Installation of 280KW solar power plant	CVR College of Engg /Govt. of India/ PEC(P) Ltd	Rs.2 Crores
	2014-15	Design of Diode Clamped Multilevel Inverter	CVR College of Engineering	Rs. 95,000
	2014-15	Unmanned Aerial Vehicles (UAV) Project	CVR College of Engineering	Rs 6.5 lakhs
	2013-14	Development of OFDM	DRDO, Hyderabad	Rs.9 lakhs completed recently
	2013-14	Design of DAS Hardware	DRDO, Hyderabad	Rs.8.8 lakhs completed recently
	2013-14	Design of DAS Software	DRDO, Hyderabad	Rs.8.7 lakhs completed recently
	2013-14	Computer Vision-Video Analytics	ECIL, Hyderabad	Progress
	2013-14	Design of an Indigenous MRI	ECIL, Hyderabad	Progress

3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

- The College has Entrepreneurship Development Cell (EDC) to develop entrepreneurship skills among students, to expose areas of interest by organizing workshops, guest lecturers etc. As part of EDC a grant of Rs.4,50,000/- was sanctioned vide letter No:F.No.4-21/RIFD/EDC/POLICY-1/2013-14 dated 10.07.2013.
- The DRDO utilized the assistance from VLSI laboratory, ECE Department as part of OFDM, DAS Hardware and DAS Software projects.
- The AICTE granted 12 lakhs as part of IIPC (Industry Institute Partnership Cell) to develop the systems for the industry usage namely Video-Analytics system for ECIL for security in vital installations and to conduct workshops/conference to get sufficient knowledge.

- Wireless communications lab is upgraded under MODROBS scheme by utilizing a grant of Rs 10,80,000/-.
- The departments of CSE & ECE have submitted proposals to JNTUH, Hyderabad for recognition as Centers for Research and the application is pending with the University.
- Significant outcomes or breakthrough due to National/International agencies recognition. DRDO, Hyderabad and ECIL, Hyderabad are the Primary Organisations to have continuity of collaboration.

A National program was conducted on Computer Vision dealing with Computer Analytics and MRI Magnetic Resonance Imaging (MRI) systems on 6th and 7th March 2014. This program was for two days and was attended by representatives from ECIL, BDL, DRDO, IISc, National Brain Research Centre (NBRC), Hyderabad Central University (HCU). A proposal was submitted to the JNTUH for starting a Center of Excellence (CoE) at CVR College of Engineering. The salient features of this proposed center is to carry out research in the area of Video Analytics for automatic intrusion detection along with generation of necessary alarms in case of intrusion. Interaction with industries regarding Cloud Computing and its applications in Agriculture is underway.

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/National/International agencies).

S.No	Name of Research Project	Name of Coordinator	Funding agency	Grants Received	Year
1	AICTE Entrepreneurship Development Cell (EDC)	Dr.A Janardhan Reddy, Prof. & HoD, Mechanical Engineering Dept.	AICTE	4.5 Lakhs	2013-2014
2	AICTE Industry Institute of Partnership Cell (IIPC)	Prof.S.Sengupta, Dean-Projects	AICTE	12 Lakhs	2013-2014
3	AICTE Staff Development Programme	Dr.A.D.Rajkumar , Prof. EEE, Dean Academics	AICTE	4.5 Lakhs	2013-2014
4	RFID	Prof.S.Sengupta, Dean-Projects	CVR College/ECIL	Rs.18 Lakhs	2009-10 & 2010-11
5	Development of OFDM	Prof.S.Sengupta, Dean-Projects	DRDO	9 Lakhs	2012-2013
6	Design of DAS Hardware	Prof.S.Sengupta, Dean-Projects	DRDO	8.8 Lakhs	2013-2014
7	Design of DAS Software	Prof.S.Sengupta	DRDO	8.7 Lakhs	2013-2014
8	Modernization of Communications Lab(MODROBS)	Dr.K.S.Nayanathara, Principal (former HoD, ECE)	AICTE	10.8 Lakhs	2013-2014
9	SDP	Dr. M.S. Bhat, Prof. & Head, EIE Dept.	AICTE	1,14,600	2010-2011
10	Seminar Grant	Smt. Vanitha Singi Reddy, Dept. of H&S	AICTE	62,500	2010-2011

11	Seminar Grant	Two day National Seminar on Ferroics	DRDO, New Delhi	50,000	2006-2007
12	Seminar Grant	Two day National Seminar on Ferroics	BRNS, Mumbai	1,00,000	2006-2007
13	Research on Synthesis and characterization of Bismuth layered structure ferroelectric and dielectric properties	Dr.Sarah, Assoc.Prof. & HoD, H&S	DRDO, New Delhi	17,95,000	2003-2006

3.3 Research Facilities

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

Infrastructure for research is developed keeping in view the requirements of the faculty members to carry out research. Research labs are provided in all specialized fields of a department. Labs are spacious enough to accommodate equipment necessary to carry out research that can be extended to graduate and under graduate students. Individual cubicles are provided to faculty members with computers to pursue research without disturbance. Wide labs with all accessories are provided for student research activities at the undergraduate level. Spacious labs are provided exclusively for some specialized research (eg. for flying Quad copters).

The Adviser and Senior Professors interact with the junior faculty members to ascertain their areas of research interests. A team is formed to pursue research in these areas. Space in existing infrastructure is allotted in accordance with proposals submitted by the Professors to the Management. If it is not adequate, provision is made in the ongoing construction as per the exclusive requirements of the project. The needs of researchers are given highest priority. Almost all departments have separate Research lab so that it is exclusively available.

3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.

Yes.

The College has an information resource centre to help the researchers. The following are the facilities available:

- The digital library with subscription to numerous journals and e-books. The faculty members and students can publish their research electronically.
- Traditional library media, such as a constantly growing stock of books and scientific and technical journals, supplement the electronic information.

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

Yes.

The College provides accommodation for few faculty members on campus with access to computer and internet facilities. All faculty members have extended hour library facilities.

Some faculty members doing Ph.D are provided with computers at their residences. About 110 laptops are provided to faculty who are active in Research and pursuing Ph.D.

3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details.

CIVIL

The department has the following laboratories to support research program challenges.

- Surveying Laboratory
- Engineering Geology Lab
- Computer Aided Design of Buildings Lab
- Fluid Mechanics & Hydraulic Machines Lab
- Geotechnical Engineering Lab
- Computer Aided Structural Drafting Lab
- Environmental Engineering Lab
- Concrete & Highway Materials Engineering Lab

CSE

The department has the following laboratories to support research program challenges.

- Computer Programming Lab
- Unix Programming Lab
- Object Oriented Programming through Java Lab
- DBMS Lab
- Computer Networks/Case Tools Lab
- Web Technologies and CD
- Data mining and networking Lab
- Mobile applications development Lab

ECE

- Electronic Devices and Circuits Lab
- Electronic Circuit Analysis Lab
- Pulse & Digital Circuits Lab
- IC Applications Lab
- MPMC Lab
- Analog Communications Lab
- Micro wave & Digital Communications Lab
- The department has a Centre for VLSI lab with Cadence tools and Xilinx Boards, ISE Software to address the VLSI Design challenges.
- The department has a ES lab with PSOC and Xilinx EDK software and Virtex boards, ARM kits to address ES challenges.
- The department has Wireless Communication lab with MATLAB, VNA and 100Mhz Crystal Storage Oscilloscope, GHz spectrum analyzer.

EEE

The department has the following laboratories to support research program challenges.

- Electrical circuits & simulation lab
- Fluid mechanics and hydraulic machinery lab
- Electrical Machines Lab
- Control systems and simulation lab
- Power electronics and simulation lab
- Power systems lab
- Electrical measurements lab
- Electrical Engineering lab

EIE

The department has the following laboratories to support research program challenges.

- Transducers and Instrumentation Lab
- Industrial Instrumentation Lab
- Process Control Lab
- Analytical Instrumentation Lab
- Mitsubishi PLC Hardware & Software Lab

H&S

The department has the following laboratories to support research program challenges.

- Verbal Ability lab
- Reasoning and logic lab
- Advanced English communication skills lab
- Computational mathematical lab
- Physics lab
- Chemistry lab

IT

The department has the following laboratories to support research program challenges.

- Problem solving through C
- Data structures through C
- IT Workshop lab
- Embedded System Design lab
- Software testing methodologies lab
- DBMS Lab
- Computer Networks/Case Tools Lab

MECH

- Machine Tools Lab
- CAD/CAM Lab
- Mechanics of Solids Lab
- Metallurgy Lab
- Metrology and Surface Engg Lab
- Fluid Mechanics Lab

3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Research facilities for VLSI have national repute and the Cadence tools are of international repute. These were used to advantage to execute projects on development of OFDM, DAS Hardware and DAS Software, Computer Vision-Video Analytics, design of Indigenous MRI etc sanctioned by DRDO, Hyderabad, ECIL and BHEL, Hyderabad.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

- **Major papers presented in regional, national and international conferences**
 1. Ms. A.Harika presented a paper titled: "Advanced Analytics of Big Data using Hadoop's Map Reduce" in the International Conference on Advanced Soft Computing and Communication Technologies(ICASCCT), VITS, Hyd, on 27th - 28th August 2014.
 2. Ms.M.Sunitha presented a paper titled:"MPC-BLAR: Maximal power conserved and battery life aware routing in Ad hoc networks" in the International Conference on Computer Science and Information Technology (CCSIT), published in SPRINGER proceedings LNICST, Feb-2013.

3. Ms.M.Sunitha presented a paper titled: “A short survey on routing protocols in mobile ad hoc networks” in the National Conference on Computational Intelligence and Applications, Feb-2012.
4. Mr. K. Venkateshwara Rao presented a paper titled: “Design and implementation of spatiotemporal data analysis system” in the National conference on Advanced Computing and Communication Technologists, ACCT-2010, Vaish College of Engineering, Rohtak, Haryana, 25-26 June 2010.
5. Dr. Rajarshi Mahapatra, Professor of ECE Dept presented a paper on “Participation of Optical Backbone Network in Successful Advancement of Wireless Network” in IEEE Wireless Vitec 2015 (special session on Fiber-Wireless Convergence for broadband Connectivity in 5G perspective), Dec. 13-16 2015, Hyderabad.
6. Mr.Lalithendra Kurra, Assoc. Professor of ECE department published a paper on “Multi-layer FSS for gain improvement of a wide-band stacked printed antenna,” in International Symposium on Antennas and Propagation (ISAP 2015), Hobart, Australia, 2015, pp. 933–936.
7. Ms. P.Naga Malleswari, Asst Prof. of ECE Dept. published a paper on “PAPR and ICI Reduction Techniques for OFDM Systems” in the National conference in Vasavi College of Engineering, Hyderabad on 04th-05th March, 2015.
8. Ms. T.Sravanti, Asst. Prof. of ECE Dept. published a paper on “Performance Analysis of PAPR Reduction in OFDM using Combined Approach Method” in an IEEE international conference on computing and communication technologies (ICCCT 2015), February 26-27, 2015.
9. Ms.T.Sravanti, Asst. Professor of ECE Dept. published a paper on “A Combined PTS & SLM Approach With Dummy Signal Insertion for PAPR Reduction in OFDM Systems .” in the proceedings of IEEE conference on international conference on computing and communication technologies (ICCCT 2014), December 11-13, 2014.
10. Mrs.A.Bharathi, Assoc.Prof. presented a paper titled: “Polarization Agile Micro strip Antenna for Wireless Communications” in the International Conference INDICON 2012, December 2012, Cochin, Kerala.
11. Prof.Varghese Thattil presented a paper titled: “Stochastic modeling and availability estimation of redundant array of independent disks” in the 2nd National Conference Computer Networks and Information Security (NCCNIS-2013) Hyderabad ,on 30-31 January 2013.
12. Mrs. Dhruva R Rinku presented a paper titled: “Implementation of Earliest Deadline First (EDF) Scheduling Algorithms on Standard Linux” in the International Conference on Computing, Communication Systems & Aeronautics at MRCET, Hyderabad on 30-31, March 2012.
13. Mr. G.Manohar, Assoc. Prof of EEE Dept. presented a paper titled “HVDC Connection of Off Shore Power Plants”, in an International Conference on “Electrical and Electronics Engineering”, at Tirupathi, in June, 2012.
14. Mr. K. Suman, Asst. Prof of EEE Dept. presented a paper titled “Direct Torque Controlled Induction Motor Using Advanced PWM Techniques”, in an International Conference on Recent Trends in Electrical and Electronics Engineering 2012 organized by Jawaharlal Nehru University (JNU), Delhi from 29th -30th September, 2012.

15. Mr. Ch. Sunil Kumar, Assoc. Prof of EEE Dept. published and presented a paper on "Transaction Based Transmission Loading Relief of AP State Grid", in an International Conference on Recent Trends in Electrical and Electronics Engineering, organized by Krishi Sanskriti at Jawaharlal Nehru University (JNU), Delhi from 29th – 30th September, 2012.
16. Dr. M. Sasikala, Professor of EEE Dept. presented a paper titled "Studies on Dc Conductivity and LPG Sensing Behaviour of PANI/CCO₂ Composites", in an International Conference on Recent Advances in Material Science (RAMS-2012) organized by Karnataka State Higher Education Council at Bangalore from 6th – 8th November, 2012.
17. Mrs. G. Sree Lakshmi, Associate Professor, EEE Dept., presented a paper entitled "Closed loop PI control of Two & Three level Diode Clamped Multilevel inverter fed PMSM using SVPWM " at the International Conference on Electrical, Electronics And Data Communication (ICEEDC) held at Chennai on 10th March, 2013.
18. Dr.P.Ravibabu, Professor .EEE Dept presented a Paper on "Operation and Control of Electrical Distribution System with Extra Voltage to minimize the losses" under 'oral presentation category' from 6th -8th Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.
19. Mrs. G. Sree Lakshmi, Associate Professor, EEE Dept., presented a paper entitled" Power and Advanced Control Engineering" in IEEE Conference, ICPACE 2015.
20. N.N.V. Surendrababu, Professor, EEE Dept., presented a paper entitled"A Novel DC voltage control for a cascade H Bridge multi-level STATCOM" in IEEE conference, IECON2015.
21. Mr. Ch. Lokeshwar Reddy, Associate Professor, EEE Dept., presented a paper entitled "A Five level cascaded H-Bridge Multilevel STATCOM" in IEEE Conference, Prime Asia 2015.
22. Dr. S.Venkateshwarlu, R.NaveenaBhargavi, M.Rajasree, EEE Dept., presented a paper entitled " Fault Tolerant Control for Series Compensators for Power System Stability Improvement" in International Conference & International journal, ICSTM, Feb-15.
23. M.Rajasree, Assistant Professor, EEE Dept., presented a paper entitled "Advanced Metering Infrastructure in Smart Grid: An Overview " in International Conference, ICRTESM, Mar-15
24. Mr. A.Naveen Kumar Associate Professor, EEE Dept., presented a paper entitled "Carrier based Modulation for the SVM of the Matrix Converter" International (IEEE) conference, June-2015
25. Mrs.S.Harivardhagini, Assoc.Prof of EIE Dept, published a paper entitled "Variable structure control of pH Neutralisation of a waste water treatment plant using LabVIEW" in the proceedings of "IEEE Conference on system, Process and Control(ICSPC 2015) held at Kualalumpur, Malaysia on 26-28 Dec 2015.
26. Mrs.S.Harivardhagini, Assoc.Prof of EIE Dept, presented and published a paper on"PID,SMC and DSMC techniques of a prototyped Split Range Plant using Lab VIEW" has been awarded BEST PAPER in conjunction with 2015 IEEE international conference on control system, computing and Engineering(ICCSCE 2015) at PARKROYAL Penang Resort,Batu Ferringhi,Penang,Malaysia,Jointly organized by IEEE Chapter of control system society, Malaysia Section and Faculty of Electrical Engineering,Universiti Teknologi MARA(UITM) ON 27-29 November 2015.

27. Ms. V. Sreelatha Reddy, Asst.Prof, of EIE Dept. published a paper on “Key Binding with finger print feature vector”, in, on 3-5 jan 2014, Computer Communication and Informatics (ICCCI), International Conference, at coimbatore, ISSN:978-1-4799-2353-3.
28. Dr.M.S. Bhat, Prof and Head, EIE Dept. along with Dr.A.Vidyasagar and Maj.Gen. (Retd.) Dr.R.K.Bagga, published a paper entitled, “An Empire Study of Perception of the Effectiveness of the Learning through Electronic Portal”, in the proceedings brought out on the occasion of 55th Annual Technical Conference 2012, conducted by Institute of Electronics and Telecommunication Engineers at Bangalore on 28th-29th September, 2012.
29. Mrs. S. Harivardhagini, Associate Prof. published a technical paper titled “Data Acquisition & Control of Level for Critical Process using Lab VIEW” in International Conference on “Advanced computing, communication of Networks” technically sponsored by International Neural Network Society (INNS) at Chandigarh.
30. Prof. R. Seetharamaiah, Professor presented a paper titled: “Design of N-gram based dynamic pre-fetching for DSM” in the ICA(Institute of Cultural Affairs) 3PP 2012 12th International Conference of Algorithm and Parellel Processing in Fukuoka ,Japan on 4th – 7th September 2012.
31. Mrs.H.N.Lakshmi presented a paper titled: “RDBMS for Service Repository and Composition” in the International Conference on Advanced Computing, in Anna University, IEEE 4th International Conference, Dec-2012.
32. Mr M.Srinivas presented a paper titled: “Classification Of Medicinal Plants Using LBP:A Numerical Approximal Approach” in the Seventh International Conference on Image and Signal Processing organized by The society of Information Processing Aug 9-11,2013,Bengaluru.Pg:161-69.
33. Prof. T.A. Janardhan Reddy, Professor published a paper titled: “Study on the mechanism of flow forming: (AREVIEW)” in the 2ND International conference on Advancement in Engineering and Management, RIST, ICAEM-2013 on 27&28 Feb2013.
34. Mr. T. Balaji Gupta presented a paper titled: “Supply Chain Management in Indian context” in the 6th international conference on Contemporary Business on 8th – 10th November 2012 at IIT Delhi.
35. Dr. M. Krishna Reddy presented a paper titles: “Forecasting Foreign Exchange Rates using Time Delay Neural Networks” in the International Workshop on Mathematical Algorithms and Data Analysis, during 2-5, January, 2010 at Department of Statistics, A.U., Visakhapatnam.
36. Dr. M. Krishna Reddy presented a paper titled: “Scaling Techniqurs to determine interlligence Quotient” in the National Workshop on Statistical Tools for Physica and Social Sciences during 8-9, February 2014 at Sri Sai Baba Naional Degree College, Ananthapur, AP.
37. Dr. M. Krishan Reddy presented a paper titled: Detection of copying in Multiple Choice Examination” in the National Conference on Recent Advances in Statistics during 21-22, February 2014 at Department of Statistics, Osmania University, Hyderabad.
38. Dr. M. Krishna Reddy presented a paper titled: “The Role of Statics in Science, Technology and Engineering” at the International Conference on Statistics and Information Technology for a Growing Nation during 30th November to 2nd December 2014 at Department of Statistics, S.V.University, Titupati, A.P.

39. M. K. Venkateswara Rao, Dr. A. Govardhan and Dr. K.V. Chalapai Rao (2011) "An Object Oriented Modeling of Spatiotemporal Knowledge Discovery System", International Conference on Advances in Computing and Communication (ICACC – 11), NIT, Hamipur, Haryana, 08-10, April, 2011, PP 635-640.
40. Ms. A. Vani Vathsala and Mr. H. Mohanty, using hmm for predicting response time of web services in Proc of CUBE International Conference. PP: 520-525. ACM digital library, 2012. (DBLP Listed) (Has 3 Citations).
41. Presented a paper Estimation of Best Broker using Aggregated Resource Information in Multi-Grid Environment at National Conference at Vignan University, Guntur on 12-13 July 2012.
42. Mr. V. Dattatrya, Dr. K.V. Chalapati Rao "Integrated Approach of Agile Programming and Design Patterns – Case Study", INDIACom 2011, Delhi.
43. Mr. M.Raghava "Spatial Anisotropic Integration Approach for Text Removal from an Image" in Multi-Disciplinary Trends in Artificial Intelligence, 7th International Workshop, MIWAI 2013, Krabi, Thailand – Dec 9-11, 2013 (Springer Proceedings).
44. Mrs. A.VaniVathsala. Assoc.Prof of CSE Dept. published a paper on "Interaction patterns based checkpointing of choreographed web services", in ACM Digital Library. Proceedings of the 6th International Workshop on Principles of Engineering Service-Oriented and Cloud Systems ,Pages 28-37. ISBN: 978-1-4503-2841 doi> 10.1145/ 2593793. 2593797(indexed in DBLP) on May 31st 2014.
45. Mrs. A.VaniVathsala. Assoc.Prof of CSE Dept. published a paper on "A survey on checkpointing web services", in ACM Digital Library. Proceedings of the 6th International Workshop on Principles of Engineering Service-Oriented and Cloud Systems ,Pages 11-17. ISBN: 978-1-4503-2841-8 doi> 10.1145/ 2593793. 2593795 (indexed in DBLP) on May 31st 2014.
46. M.Sunitha ,Sr. Asst.Prof. of CSE Dept, presented a paper titled " MECAR: Maximal energy conserved and Aware Routing in Mobile Ad hoc Networks" Second international Conference INDIA-2015 at Kalyani University Kolkata, January 8-9,2015.
47. A.Vani Vathsala, Assoc.Prof of CSE Dept , presented a paper titled "Time and cost aware checkpointing of choreographed web services" 11th International Conference on Distributed Computing and Information Technology ICDCIT, at Bhabaneshwar, February 6th 2015. Proceedings in LNCS Springer 10.1007/978-3-319-14977-6_17 (indexed in DBLP)
48. V.Anand, Assoc..Prof. of CSE Dept, presented a paper titled "MongoDB and Oracle NoSQL: A technical critique for design decisions" two-day International Conference on Innovations in CS and IT at MGIT, Hyderabad on Aug 28-29, 2015
49. N.Vanaja, Asst.Prof. of CSE Dept, presented a paper titled "Secure storage and cloud compliance" a two-day International Conference on Innovations in CS and IT at MGIT, Hyderabad on Aug 28-29, 2015.
50. V.Anand Assoc. Prof of CSE Dept Presented a paper titled "'Weighted Ranked Queries for Secure Search in Cost-Effective Clouds" in the International Conference on Computing and Communication Technologies, Osmania University, Hyderabad, Dec 11-13, 2014.
51. Dr. N V Rao, Prof. and Dean academics published a paper titled 'Dynamic Scene Analysis using Kalman Filter and Mean Shift Tracking Algorithms', Sixth International Conference on computing, communications and Networking Technologies, organized by University of North Texas, Denton, U.S.A in association with IEEE Computer Society held during July 13-15, 2015.

52. C.Ramesh, Assoc.Prof. of CSE Dept, presented a paper titled " Web mining Based Framework for Ontology Learning " at 5th International Conference on Advances in Computing and Information Technology (ACITY 2015) , 25-26th July, 2015 Chennai, India.
 53. Ms. Vanitha Singireddy, Asst. Prof. in English, participated in an International Conference for English Language Teacher Educator with the theme "Innovation in English Language Teacher Education," conducted by British Council and English and Foreign Languages University, Hyderabad at Hitech City, Hyderabad from 21st -23rd February, 2014.
 54. Ms. Vanitha Singireddy, Asst. Prof. in English, presented a paper in the National Conference titled "Soft Skills in Juxtaposition with English Language Skills: Emergence of a Successful Professional", conducted by ELTAI, Tirupathi Chapter , at S.V. University, Tirupathi, on 26th April, 2014.
 55. Prof. M. Krishna Reddy, Professor, Statistics, delivered a guest lecture on "Detection of Copying in Multiple Choice Examination", at a National Conference on "Recent Advances in Statistics," organized by Department of Statistics, Osmania University, Hyderabad on 21st & 22nd February , 2014.
- There are many more faculty having publications:

➤ **Publication per faculty is summarized here under:**

CIVIL

S. No	Faculty name	No. of Publications
1	Dr. T. Muralidhara Rao	17
2	Dr. N. Narayana	16
3	S. Hari Diran	4
4	N. Ramanjaneyulu	1
5	K. Rajendra Prasad	1
6	S. Praveen	2
7	D. Yugander	1
8	Neeraja Punjala	1

CSE

S. No	Faculty Name	No. of Publications
1	Dr.K.V.Chalapathi Rao	20
2	Dr. Narender Reddy	17
3	Dr. K.Venkateswara Rao	13
4	Dr. N.V.Rao	9
5	Mr. C. Ramesh	5
6	Mr. Raghava .M	1
7	Mrs. A. Vani Vathsala	8
8	Mr. L. Venkateswarlu	1
9	Mr. Ch. Ram Mohan	1
10	Mr. V. Dattatreya	3
11	Mr.V.Anand	1
12	Mr. A. Mallareddy	30
13	Mrs. Sunitha Maddhi	5
14	Mr. Suhail Afroz	1
15	Mrs. S. Suguna Mallika	5

16	Mrs.M. Sathya Devi	1
17	Ms. V. Sowjanya	1
18	Mr. Sahith R	4
19	Mr. N.Satyanarayana	3
20	Mr.B.Ashwin Kumar	1
21	Mrs. Ch.Bhavani	6
22	Mr.R.Satya Prakash	
23	Ms.K.Baby Janaki	1
24	Ms.V.N.V.L.S.Swathi	1
25	Mrs.P.Madhavi	3
26	Mr. Sri Hari Rao	13
27	Mrs Preethi patil	2
28	Mrs. Priyanka Gupta	1
29	Ms. Ch. Pravallika	2
30	Mr. D Beekhya	2

ECE

S. No	Faculty name	No. of Publications
1	Dr.K.Lal Kishore	196
2	Dr.Nayanathara K S	11
3	Prof.S.Sengupta	02
4	Wg.Cdr.VargheseThattil	08
5	Dr.T.EstherRani	11
6	Dr.Humaira Nishat	18
7	Dr.K.Lalithendra	09
8	Mr.G.Ravi Shankar Reddy	06
9	Mr.P.Srinivasa Rao	06
10	Mr.Karrar hussain	05
11	Mr.B.Ravinder	04
12	Mr.D.Bhanu Prakash	8
13	Mr.L.Manjunath	08
14	Mrs.K. A. Jyotsna	01
15	Mrs.P.Kavitha	02
16	Mrs.Dhruva R.Rinku	05
17	Mr. Shakeel Ahmed	05
18	Mrs.Athira G Krishna	02
19	Mrs.A.Anitha	02
20	Mrs.M.V.Sushumna	02
21	Mr.R.Prakash Kumar	05
22	Mr.K.Bapayya	12
23	Mr.B.Janardhana Rao	13
24	Mrs.A.Malleswari	01
25	Mr.M.Vinod Kumar	07
26	Mr.S.Naveen Kumar	05
27	Mr.Jail Singh	02
28	Mrs.T.Subha Sri Lakshmi	04
29	Mrs.M.Santhoshi	01
30	Mr.P.Sreekanth	02
31	Ms.Shakira Begum Shaik	01
32	Mrs.Aditikohli	03

33	Mrs.V.Ramadevi	01
34	Mr.K.Arun Kumar	07
35	Mr.G.Santhosh Kumar	08
36	Mrs.S.Swetha	02
37	Mr.Prathap Soma	01
38	Ms.Rajeshwari Soma	01
39	Mrs.B.Jayasri	01
40	Mr.R.Ganesh	09
41	Mrs.V.Silpa Kesav	02
42	Mr. M. Srinivas	02
43	Mrs.Ch.Hemalatha	01
44	Dr.Rajarshi Mahapatra	50
45	Mrs.S.Sailaja	01
46	Mrs.T.Sravanthi	04
47	Mrs.T.Padmavathi	02

EEE

S. No	Faculty name	No. of
1	Dr. A. D. Rajkumar	45
2	Dr.S.Venkateshwarlu	14
3	Dr. K. Dhanvanthri	17
4	Dr. N.N.V. Surendra Babu	8
5	Mrs. G. Sree Lakshmi	16
6	Mr. G. Manohar	5
7	Mr. B. Kalyana Chakravarthy	1
8	Mrs. R. Naveena Bhargavi	5
9	Mr. A. Naveen Kumar	3
10	Mr.Ch. Lokeshwar Reddy	6
11	Mr. P. Rajesh Kumar	6
12	Mr. Rajib Kumar Kar	2
13	Mr. R. Harsha Vardhan	5
14	Mr. P. Vinodh Kumar	4
15	Ms. E. Hima Bindu	2
16	Mr.K.Suman	7
17	Mrs.M.Rajasree	7
18	Mr. D. Sreenadh Reddy	1
19	Mr. C. Krishna Reddy	1
20	Ms.Ch. Shravani	4
21	Mr. M.Apparao	1
22	Mr.K. Bharath	1
23	Ms. G. Sridevi	1
24	Mr. K.S.V Phani Kumar	9

EIE

S. No	Faculty name	No.of Publicaitons
1	Dr. M. S. Bhat	20
2	Prof. S. Narayana	6
3	S. Harivardhagini	14
4	N. Akshay	2
5	B. Satish	1
6	O. Venkata Krishna	12
7	D. Satish kumar	1

8	V. Sreelatha Reddy	1
9	G. Venkateshwarlu	5
10	P. Choudesh Varma	1
11	P. Venkata Gopi kumar	1
12	Ms.V.Sreelatha Reddy,Asst.Prof	1
13	Y.Divya,Asst.Prof	1

IT

S. No	Faculty name	No.of Publicaitons
1	Prof.U.V.R.Sarma	2
2	Dr.B.B.Jayasingh	16
3	Dr. R. Seetharamaiah	2
4	Mrs.H.N.Lakshmi	4
5	B.Babitha	3
6	N.Pavani	3
7	A Pranayanath Reddy	2
8	A Pranayanath Reddy	2
9	Mr.K.V.Sriharsha	1
10	B. Vikranth	1
11	Mr M.Srinivas	1
12	S.Jyothsna	2
13	J.Vamsi Vijaya Krishna	1
14	A.Seetharam Nagesh	1

H&S

S.No	Faculty name	No. of Publications
1	MsVanithaSingiReddy	04
2	Dr. T.Hymavathi	02
3	Dr. Jaya Verma	04
4	MrK.Murali	02
5	Dr.K.Satyanarayana	18
6	Dr.Rafiuddin	23
7	Dr. Sankaraiah	04
8	Dr.G.SridharaSarma	06
9	Dr.G.Mallikarjun Reddy	06
10	Dr.J.RameshBabu	05
11	Dr .E.Narasimhacharyulu	09
12	Dr.Veeresham	29
13	Dr. V. Sitaramaraju	09
14	Dr. K. Venkatesan	04
15	Dr.M.Krishna Reddy	22

16	Mr.R.Goutham Goud	01
17	Mr.P.SaiSankar	01
18	Dr.E.Uma Reddy	07
19	Mr.P.V.S.H.Sastry	03
20	Dr.P.VanisreeSah	10
21	Mr. N Guruvaiah	01
22	Ms. K T PadmaPriya	02
23	Dr.K.Navatha	02

➤ **Faculty serving on the Editorial Boards of National and International Journals**

- 1.Dr.M.S.Bhat
- 2.Prof.S.Narayana

➤ **Faculty members on the organization committees of international conferences, recognized by reputed organizations / societies.**

- Prof. A.D. Raj Kumar-Expert panel member of AICTE, UPSC, Executive council member of JNTUH.
- Dr. K. Rama Sastri, Director as Member, Board of Studies, JNTU, Member Academic Council of GVP College of Engg, Visakhapatnam (Autonomous College). Member, Advisory Committee, Irrigation Department, Government of Andhra Pradesh during 2008-10.
- Dr. Bipin B. Jayasingh, Program Committee Member, International Joint Journal Conference in Engineering 2009 (IJJCE-2009).
- Dr. Bipin B. Jayasingh, Program Committee Member, International conference on Advances in Recent Technologies in Communication & Computing, (ARTCom 2009), Kottayam, Kerala, India, 27-28 October 2009.
- Dr. Bipin B. Jayasingh, Program Committee Member, International Joint Journal Conference in Computer, Electronics, Electrical 2009 (CEE 2009).
- Dr. Bipin B. Jayasingh, Program Committee Member, International Conference on Advances in Computing, Control and Communication Technologies 2009, (ACT 2009), Trivandrum, Kerala, India, 28-29 December 2009.
- Dr. Bipin B. Jayasingh, Editor, International Journal of Computer Applications in Engineering, Technology and Sciences (IJ_CA_ETS), India, ISSN: 0974-3596 since 2008.
- Dr. Bipin B. Jayasingh, Associate Editor, International Journal of Secure Digital Information Age (IJS DIA), ISSN-0975-1823, December, 2010, www.ijsdia.org.
- Dr. N. V.Rao, Prof. and Dean academics, Presided over the function IEEE Hyderabad section student congress 2013, held on 3rd August 2013, with Dr.Lal Kishore , Vice Chancellor, JNTUA as Chief guest .
- Dr. N V Rao, Prof. and Dean Academics was a Chief Guest – 2015 IEEE region 10 (Asia Pacific) SAC – CHAIRS, COUNSELORS AND MENTORS MEET ON 4TH Oct., 2015. Also participated as a moderator in Open Forum discussion.

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

Yes, the College publishes a half yearly research journal with the name “CVR JOURNAL OF SCIENCE & TECHNOLOGY”. The composition is as indicated.

Patrons:

Dr.Raghava V.Cherabuddi, President & Chairman

Dr.K.Rama sastri, Director

Dr.K.S.Nayanathara, Principal

Editor:

Dr.K.V.Chalapathi Rao, Professor& Dean, Research

Associate Editor:

Wg Cdr Varghese Thattil, Professor & Head, Dept. of ECE

Dr.S.Venkateshwarlu , Professor, Dept. of EEE

Editorial Board:

Dr.K.Lal Kishore, Vice Chancellor, JNTU, Anantapur.

Prof.S.Ramanchandram, Vice Principal, College of Engineering& Professor Dept.of CSE, Osmania University

Prof.L.C.Siva Reddy, Vice Principal and Professor & Head, Dept.of CSE

Dr.A.D.Raj Kumar, Dean, Academics

Prof.S.Sengupta, Dean, Projects and Consultancy

Wg Cdr Varghese Thattil, Professor & Head, Dept. of ECE

Dr.S.Venkateshwarlu, Professor & Head, Dept. of EEE

Dr.M.S.Bhat, Professor & Head, Dept. of EIE

Dr.E.Narsimhacharyulu, Professor & Head, Dept. of H&S

Dr.N.V.Rao, Professor, Dept. of CSE

Dr.T.A.JanardhanReddy, Professor & Head, Dept. of Mech.Engg

Prof.U.V.Ramana Sarma, Professor & Head, Dept. of IT

Dr.T.Muralidhar Rao, Prof & Head, Dept. of Civil. Engg

Publication Policies:

In the present day world, the developments in technical field happen at a fast pace, hence the need for the faculty members of an institution to keep in tune with them. This would enable them to follow the twin principles of engineering education-relevance and excellence, effectively

Our college endeavors to encourage research culture among the faculty members. Publication of research work is one more step in this direction. Knowledge grows by sharing and since the print medium is the best with its lasting value, it is beneficial to the current and future scientific and technical community. The technical journal provides the teachers an opportunity along with a challenge to reach good standards to publish their research work. The papers span a wide range including basic sciences and management in addition to the engineering disciplines.

The key policies for publication have been evolved as follows:

Papers are reviewed by the editorial board in consultation with experts from various institutions and organizations.

Papers of good standard are accepted for publication after plagiarism check with software.

To encourage authors, cash incentives are awarded to those whose papers are selected for publication in the journal.

After the first issue, the journal was registered by the National Institution of Science Communication and Information Resources and assigned a number ISSN-2277-3916 based on the quality of contributions from researchers from outside the college, including reputed universities from the United States.

International Database Status:

The CVR Journal of Science & Technology is listed in international database with the ISSN number as ISSN 2277-3916.

3.4.3 Give details of publications by the faculty:

o Number of papers published in peer reviewed journals (national / international)

CIVIL

S. No	Year	Number of Publications
1	2014-15	27

CSE

S. No	Year	No. of Publications
1	2015-16	14
2	2014-15	6
3	2013-14	15
4	2012-13	15
5	2011-12	15
6	2010-11	6

ECE

S. No	Year	Number of Publications
1	2015-16	15
2	2014-15	17
3	2013-14	12
4	2012-13	18
5	2011-12	23
6	2010-11	07
7	2009-10	03

EEE

S. No	Year	Number of Publications
1	2015-16	03
2	2014-15	08
3	2013-14	10
4	2012-13	28
5	2011-12	40
6	2010-11	06

EIE

S. No	Year	Number of Publication
1	2015-16	10
2	2014-15	13
3	2013-14	10
4	2012-13	5
5	2011-12	2
6	2010-11	19

H&S

S. No	Year	Number of Publication
1	2015-16	12
2	2014-15	7
3	2013-14	21
4	2012-13	14
5	2011-12	29
6	2010-11	7
7	2009-10	7

IT

S. No	Year	Number of Publication
1	2015-16	2
2	2014-15	1
3	2013-14	5
4	2012-13	20
5	2011-12	11
6	2010-11	3

MECH

S.No	Year	Number of Publications
1	2014-15	6
2	2013-14	12
3	2012-13	07
4	2011-12	10
5	2010-11	03

(Note: Details of papers and authors are available with the departments.)

Monographs

Each department has printed Monograph (Lab Manual) for each laboratory and supplied to students.

o **Chapters in Books**o **Editing Books**

- Dr. M. Krishna Reddy edited 2 text books for
 1. B.Sc/B.A Statistics II year English Medium
 2. B.Sc/B.A Statistics II Year Telugu Medium
 (Published by Telugu Academy, Govt. of AP.)

o **Books with ISBN numbers with details of publishers**

- A book on “Sense of belonging : A study in the selected Novels of Anita Desai” by Mrs. Vanitha Singireddy Asst. Professor by LAP LAMBERT Academic Publishing. ISBN No. 978-3-659-39301-3 dated 04-03-2015
- A text book on “Production Drawing Practice” by P.N Reddy, T.A.J Reddy and C.S Rao is under revision for second edition.
- Dr. N. Narayana published a book as co-author with the title “Status of Limestone availability and potential sites for setting up large cement plants(SP-14-91,Second Edition)” by National Council for cement and building materials, New Delhi.
- Dr. N. Narayana published a book as co-author with the title “Norms for proving limestone deposits for cement manufacture(SP-9-03 November,2003, Third Edition Copyright 2003)
- Dr. Deva Prasad S published a text book with the title “Multi-Objective Flow shop Scheduling: A Genetic Algorithmic approach”, by LAP Lambert Academic Publishing with ISBN-10: 3659239860, ISBN-13: 978-3659239861.

- Ms.VanithaSingiReddy, published a text book with the title “A Text Book entitled”Sense of Belonging- A study in the select novels of Anita Desai” by Lap Lambert Academic Publishers, Germany
 - CVR Journal of Science and Technology with ISSN number 2277-3916.
 - **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
 - **Citation Index – range / average**
 - **SNIP**
 - **SJR**
 - **Impact factor – range / average**
 - **h-index**
- 3.4.4 Indicate the average number of successful M.Tech/M.Phil. and Ph.D. scholars guided per faculty.**

S No	Name of the Faculty	No. of M.Tech/M.Phil Projects guided
1	Wg. Cdr. Varghese Thattil	4
2	Prof. S. Sengupta	2
3	Prof. C.V.Rao	4
4	Dr. N.V. Rao	8
5	Prof P. Subrahmanyam	5
6	Dr T.Esther Rani	11
7	Dr.Humaira Nishat	7
8	Mr. G. Ravi Shankar reddy	2
9	Mr .Karrar Hussian	5
10	Mrs K.A.Jyotsna	10
11	Mr P.Srinivas Rao	3
12	Mrs.R.Dhruva Rinku	12
13	D. Bhanu Prakash	2
14	Mrs.T.Padmavathi	5
15	Shakeel Ahmed	6
16	Mrs K.Venkata Laxmi	7
17	Mr R.Ganesh	12
18	Mrs. V.Sreelakshmi	9
19	Mrs Athira G.Krishna	5
20	Mrs M.V.N.Sushmuna	4
21	Mrs.V.Silpa Kesav	5
22	Mr M.Ashok	6
23	Mr K.Bapayya	11
24	Mr. B. Janardhan Rao	2
25	M. Vinod Kumar	2
26	S. Sailaja	3
27	M. Srinivas	1
28	Mr. R. Prakash Kumar	2
29	Mr. L. Manjunath	2
30	Mrs P. Kavitha	2
31	Mrs. G.V. Mahalakshmi	1
32	Mr. Abdul Nasar	1

33	Mrs.P. Naga Malleswari	1
34	Mr. B. Ravinder	1
35	Mr. S.L. Narsimha Reddy	2
36	Mrs. T. Sravanthi	1
37	Mr. Ravikanth	1
38	Dr. K. Dhanvanthri	4
39	Mr. G. Manohar	4
40	Mr. B. Kalyana Chakravarthy	1
41	Mrs. R. Naveena Bhargavi	2
42	Mr. Rajib Kumar Kar	1
43	Ms. E. Hima Bindu	3
44	Mr. G.Janardhan	4
45	Mr.K.Suman	4
46	Mrs.M.Rajasree	2
47	Ms. P. Sudeepika	1
48	Prof. L.C. Siva Reddy	30
49	Dr. Narender Reddy	3
50	Dr. K.Venkateswara Rao	6
51	Prof. M. Badri Narayana	4
52	Mr. C. Ramesh	4
53	Mr. Raghava .M	3
54	Mrs. A. Vani Vathsala	3
55	Mr. L. Venkateswarlu	5
56	Mr. Ch. Ram Mohan	6
57	Mr. B. Ram Babu	6
58	Mr. V. Dattatreya	3
59	Mr. A. Mallareddy	12
60	Mrs. Sunitha Maddhi	1
61	Mr. Suhail Afroz	2
62	Mrs.M. Sathya Devi	1
63	Ms. V. Sowjanya	1
64	Mr.D. Sujan Kumar	6
65	Mr. Sahith R	3
66	Mrs. CH. Sarada	1
67	Mr. N.Sri Hari Rao	11
68	Mr. N.Nagarjuna	1
69	Mr. D Beekhya	2
70	M.S Bhat	10
71	B.Satish	5
72	O.Venkata Krishna	3

S.No	Name of Faculty	No. of Ph.D scholars
1	Dr. K. Lal Kishore, Professor of ECE, Dean, Research	21
2	Dr.T.A Janardhan Reddy, Professor & Head, Mechanical	5
3	Dr.K.V.Chalapathi Rao, Professor of CSE	8
4	Dr. N.V. Rao	2

5	Dr. Bipin Bihari Jayasingh, Professor of IT	5
6	Dr. M. Krishna Reddy, Professor of H&S	14
7	M.S Bhat, Professor & Head, EIE	22

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

The following method/technique is used to check malpractices in research paper publications.

- Plagiarism Software to detect the percentage of malpractice in research paper.

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

Yes, interdisciplinary research is promoted in the College. The following projects are of such nature:

1. RFID : ECE, CSE, IT
2. Under Vehicle Scanner: ECE,CSE,ME
3. X, Y, Z recorder: ECE, ME
4. Solar Power Project: EEE, ME
5. Quad copters: ECE, EEE, ME

3.4.7 Mention the research awards instituted by the College.

- Best student project department wise.
- Best student project for entire college.
- Best VLSI project.
- Incentives for Ph.D. at various stages. Incentives for paper publications and presentations.
- Records are maintained in a register for the awards given

3.4.8 Provide details of

- **Research awards received by the faculty**
Prof. S. Sengupta --National Design Award
- **Recognition received by the faculty from reputed professional bodies and agencies**
- Dr. Nayanathara K.S—Member, Governing council, IETE. Senior Member, IEEE
- Dr.K.Lal Kishore — Fellow of Institute of Engineers (FIE)
—Member of Institute of Electrical & Electronics Engineering (SMIEEE)
—Fellow of Institute of Electronics & Telecommunication Engineers, INDIA (FIETE)
—Member of Indian Society for Technical Education, New Delhi (MISTE)
—Member of International Society of Hybrid Micro Electronics (MISHM)
- Prof. S. Narayana—Distinguished fellow award from IETE.
- Dr. M. S. Bhat—Member of scientific advisory committee of National Institute of mentally handicapped (Govt. of India), Hyderabad.
- Mrs.S. Harivardhagini, Assoc. Prof of EIE Dept, presented and published a paper on” PID, SMC and DSMC techniques of a prototyped Split Range Plant using Lab VIEW” has been awarded **BEST PAPER** in conjunction with **2015 IEEE international conference on control system, computing and Engineering(ICCSCE 2015)** at PARKROYAL Penang Resort, Batu Ferringhi, Penang, Malaysia, Jointly organized by IEEE Chapter of control system society, Malaysia Section and Faculty of Electrical Engineering, University Technology MARA(UTM) ON 27-29 November 2015.

➤ IEEE members

- Prof. N. V. Rao(Life Senior Member)
- Dr. K.Lal Kishore (Senior Member)
- Prof. C. Venkat Rao (Senior Member)
- Dr. Nayanathara K.S (Senior Member)
- Dr. L. Venkateswarlu
- Mr.Ch. Ram Mohan
- Dr.S.Venkateshwarlu
- Dr.N.N.V. Surender Babu
- Mr.KalayanChakravarthi.B
- Mrs.SreeLakshmi.G
- Mrs.R.NaveenaBhargavi
- Mr.G.Manohar
- Dr. R. Seetharamaiah (Senior Member)
- Prof. Wg. Cdr. Varghese Thattil
- Dr. T. Esther Rani
- Mr. G. Ravi Shankar Reddy
- Mrs. G. Sree Lakshmi
- Ms. E. Hima Bindu
- Ms. K. A. Jyotsna

3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

- Cash incentives and grants are awarded to the faculty members to further improve laboratory facilities required for advanced research in their areas of interest.
- For every publication in journal, an incentive of Rs.20000/- is awarded
- Rs.20000 is sanctioned for each text book written. College maintains record of incentives.

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

The consultancy services of the college are monitored by the Dean, Consultancy. The structure is maintained as detailed in the table below:

S.No	Activity	Number of Persons Working
1	Marketing Expertise	1
2	Purchase Orders and Billing	1
3	Development and Consultancy	4 faculty members+8 M.Tech students
4	Documentation	M.Tech students
5	Receipt of Payments	1

Recently, consultancy services were provided to the Defence Research Development Laboratory of the DRDO for Rs. 27 lakhs, over a period of eighteen months.

The projects were:

Development of Orthogonal Frequency Division Multiplexing

1. Development of Data Acquisition System Hardware
2. Development of Data Acquisition System Software

The projects were executed recently to the complete satisfaction of the client who arranged for payments on completion of preset milestones. A project completion certificate was issued.

Ongoing projects are with the Electronics Corporation of India Limited. Recently projects have been under taken for BHEL by ECE, CSE and IT Departments.

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

Yes, the College has a College Industry Cell. However, interaction with industry is through individual departments.

ECE—DRDO, Cadence

CSE, IT—Microsoft (introduced a subject in curriculum), BHEL (To convert their software from FORTRAN IV to VC++)

EEE, ME—Solar power plant installation

IIIC-Industry Institute Interaction Cell

AICTE has sanctioned an amount of Rs.12 lakhs in 2013-14 for the activities of Industry Institute Interaction Cell. Two programmes have been organized by the cell.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Profiles and areas of expertise of faculty members are placed on the College website and brochures.

Interaction with Defense labs, Software companies and ECIL take place at the departmental level by senior Professors.

Departments of ECE, CSE, CIVIL and MECH also provide consultancy services. Individual Brochures are sent to leading organizations. In 2013-14 two programmes have been organized involving students, staff and outside experts.

3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

The College provides infrastructure facilities, advanced laboratory equipment, software and staff for consultancy services. Incentives are awarded in addition to entitlement to a part of the consultancy fees.

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

S.No	Area of the service	2014-15	2013-14	2012-13	2011-12	2010-11
1	DRDO , Hyderabad- DAS Hardware		880000			
2	DRDO , Hyderabad -OFDM			900000		
3	DRDO, Hyderabad -DAS Software		870000			
4	BHEL, Hyderabad	Under Negotiation				

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

The College sensitizes the faculty and students on Institutional Social responsibilities through NSS activities. The College has NSS Unit sanctioned by the JNT University, Hyderabad. Funds are released by the University periodically. College maintains separate account for NSS. One of the faculty members is designated as Programme Officer. Yearly accounts are submitted to the University with Utilization certificate.

NSS Unit of CVR College of Engineering conducted the following major activities during the financial year 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16.

- 16-4-2010 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 243 students and staff voluntarily donated blood.
- 28-3-2011 Blood donation camp in the college campus with the association of Red Cross society, vidyanagar. 179 students and staff donated blood.
- THE SPECIAL CAMP AT MANGALPALLI (V) DURING 2nd DECEMBER 2011 TO 9th DECEMBER 2011.
- 07-3-2012 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 283 students and staff voluntarily donated blood.
- Mega Blood Donation Camp conducted in the College Campus on 6th March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.
- Social Awareness and responsibility enhancement Talk organized for II B.Tech student in the college Campus on 6th November 2013. Mr.Azmah Ali, Project Manager, Adult Literacy Program, TCS, Addresses 400 members of Students and motivated them to take part in solving the Society Problems.
- A ONE DAY TRAINING PROGRAMME ON COMPUTER BASED FUNCTIONAL LITERACY (CBFL)conducted in the Campus on 2nd Jan 2014. 25 trainers from B.Tech 3rd year, participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.
- A programme of Swatch Bharath conducted in the college campus on 16th October 2014 in the afternoon session between 2.30 pm to 5.00 pm in the college campus. All the NSS volunteers participated in the Clean & Green Program.
- A Blood donation camp on 24-11-2015 in the college campus with the association of Red Cross society, Vidyanagar.. Huge response received for this camp and 476 students and staff voluntarily donated blood..
- A Free Health camp conducted at nearby village 'Pocharam',on 9th October 2015.Camp inaugurated by village sarpanch and 110 villagers received treatment along with free medicines. In the Camp NSS volunteers created awareness on public health, environment, cleanliness and HIV to the villagers.
- One day camp at Government High School in the Pocharam Village on 17th November 2015 for Clean and Green Program in the School Campus. During the Camp, NSS Volunteers undertaken activities like School campus cleaning, Quiz programs for students and Health awareness Talks.

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

- Faculty in-charge of NSS conducts programs for the benefit of rural population in the villages surrounding the College: ex: Pocharam, Mangalapalli. These include distribution of learning material, blood donation& medical camps, adult literacy to rural schools & donation of computers.
- Campus connect programme in collaboration with Infosys and JKC.
- Donations of computers- On upgrading computers in the College, the old ones are donated to neighboring high schools for their use. School teachers are trained by the college for this purpose.

Total computers donated are above 237

Number of schools which are beneficiaries: 7

Mandal Education Offices: 6

Police Department: 2

Donated in 2007, 2013 and 2014.

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

- NSS program officer enrolls students from I year and carries them through various activities up to the IV year. Some students donate food items and bed sheets to the poor on a regular basis.
- The Computer Based Functional Literacy (CBFL) Program with the association of TCS is underway in village Pocharam, Ibrahimpatnam Mandal R.R. District which is adopted by the College. This program is aimed at educating the illiterate villagers through reading and writing of Telugu language. For this program College provided infrastructure facilities including computers with speakers and UPS. Required study material is also supplied to the persons registered in this program. This program is running successfully under the NSS Unit of College.

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

- Social Awareness and responsibility enhancement talk was organized for II B.Tech students in the College Campus on 6th November 2013. Mr.Azmah Ali, Project Manager, Adult Literacy Program, TCS, addressed 400 students and motivated them to take part in solving problems of society.
- A ONE DAY TRAINING PROGRAMME ON COMPUTER BASED FUNCTIONAL LITERACY (CBFL) conducted on the Campus on 2nd Jan 2014. 25 trainers from B.Tech 3rd year participated in the training session. At the training, trainers received software, primer and learned how to conduct Literacy programs in the villages.

3.6.5 Give details of awards / recognition received by the College for extension activities /community development work.

For conducting Mega Blood Donation camps in the college campus regularly and for motivating the students and staff to participate in the blood donation voluntarily, Indian Red Cross society AP State Branch, Hyderabad awarded CVR College of Engineering with a Memento and a Cup on World Blood Donors day i.e., 14th June 2014 in the Educational Institutional category . Dr. A.D. Rajkumar, Principal, CVR College of Engineering received the award from the Honourable Governor of Telangana and AP on 14th January 2014 at Darbar Hall, Raj Bhavan, Hyderabad. In this regard, Honourable Governor E.L Narsimhan appreciated efforts by the College and its NSS unit towards activities related to social responsibility.



3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

- Certification in Information Technology
- Video lecture Presentations
- IUCEE webinars
- Campus connect in collaboration with Infosys and JKC

The following subjects are included as Electives and Compulsory courses in the curriculum.

- i) Environmental Sciences (Compulsory)
- ii) Entrepreneurship (Elective)
- iii) Gender Sensitization (Mandatory lab course) for B.Tech II Year-II Semester.
- iv) Introduction to Analytics (Associate Analytics-1) for CSE/IT B.Tech III Year- II Semester.
- v) Information Security Management (Security Analyst-1) for CSE/IT B.Tech III Year- II Semester.

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

College has organized the following 5k run activities on Necklace Road in the city.

- a) Awareness and eradicators of HIV
- b) Citizens' responsibility to vote: Chief Guest was Shri Bhanwar Lal, Chief Election Officer.
In the above activities about 500 students and staff have participated. The spirit behind the event was well publicized.
- c) Health Awareness camp organized by NSS unit of college at two neighboring villages has brought very good response in the village community on basic health and Environmental cleanliness.
- d) College has contributed an amount of Rs. 5 lakhs in 2013-14 towards village road development for Mangalpalli Village, adjoining College.
- e) Computers donation for schools and educating teachers for usage.

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

- i) NSS program officer and his team keep track of student involvements.
- ii) Each class has Mentors for every 2 students who closely interact with them academic and personal problems and involvements. They provide continuous counseling and they are aware of the student's involvement.
- iii) Placement Officer maintains continuous email correspondence with students on rolls and alumni
- iv) Induction program and Graduation Day provide a forum for interaction among the students.
- v) Alumni meet held twice a year gives scope for interaction among amumni and alumni with faculty and management.
- vi) The Students and faculty participate in extension activities like NSS camp, Blood donation camp, Swachh Bharat
- vii) An non-government organization (NGO) named, " Helping Hearts" is formed by the students of the EEE to help the needy.
- viii) "Helping Hearts" collected Rs 51000 to help Hud hud cyclone affect area and donated to CM relief fund.

The technical association of EEE department, ELECTROCRUISE organizes various social activities in addition to technical activities. Some of the activities are follows:

Swachh Bharat Activities by EEE Students:

- Students of EEE visited Z.P.H. School and Primary school in Kongara Kalan village and conducted Swachh Bharat activity on 10.02.2015
- **A.R.I.S.E. (A Revolution In Social Empowerment)** teaching campaign in kongarakalan secondary and primary schools by III year EEE students on 13th February, 2015
- Students of III year EEE motivated SSC students of ZPH school, kongarakalan, Ibrahimpatnam by doing counseling about facing state board exams on 23rd march 2015. Also, distributed water bottles and hall ticket covers to them
- “Energy Audit” of CVRCE is conducted by III year EEE students during Aug, 2015
- Students of II year EEE visited Z. P. H. School, Eliminedu, Ibrahimpatnam on 22.01.2016 for Swachh Bharat activity and enlighten the students about higher education



Students of EEE Interacting with X class Students



Students of EEE Taking classes to X class Students



Teaching campaign on communication skills



Teaching campaign to primary children



Anna daata Sukheebhava.....Students of EEE serving the food to young citizens.....good work



Students of EEE distributing water bottles to X class students at school

NSS Unit of **CVR College of Engineering** conducted the following activities during the financial year 2010-11, 2011-12, 2012-13, 2013-14 and 2014-15.

LIST OF NSS ACTIVITIES

S. No.	Date	Activity	Description of Activity
1	2.12.2011	Health and Environmental Awareness for Villagers	Inaugural session by village sarpanch. volunteers formed into groups and educated the villagers during the day
2	3.12.2011	Health Checkup for villagers (Diabetic, B.P Tests and general health check up)	Free medical camp conducted in the Grampanchayath building 175 patients consulted the Physician.
3	5.12.2011	Road Alignment of Mangalpalli (V) approach road	Road formation from Mangalpalli(v) to Koheda Gate Approach roads.
4	7.12.2011	Computer Education for Awareness to the students of Mangalpalli (V) Government School	Patelguda, maglapalli zpss High school visit Computer awareness, higher education awareness and quiz programmes were conducted to the 8 th ,9 th and 10 th class students.
6	08.12.2011	Clean and Green Programme	Volunteers formed into groups and conducted clean and green activities
7	09.12.2011	Financial literacy/awareness among the villagers	Survey conducted by the volunteers in the village and educated the villagers
8	07.03.2012	Blood donation camp	Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 283 students and staff voluntarily donated blood
9	06.03.2013	Blood donation camp	Mega Blood Donation Camp conducted in the College Campus on 6 th March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.
10	16.10.2014	Swachh Bharat	A programme of Swachh Bharath conducted in the college campus on 16 th October 2014 in the afternoon session between 2.30 pm to 5.00 pm in the college campus. All the NSS volunteers participated in the Clean & Green Program.
11	24.11.2015	Blood donation camp	A Blood donation camp on 24-11-2015 in the college campus with the association of Red Cross society, Vidyanagar.. Huge response received for this camp and 476 students and staff voluntarily donated blood.
12	09.10.2015	Health camp	A Free Health camp conducted at nearby village 'Pocharam', on 9 th October 2015. Camp inaugurated by village sarpanch and 110 villagers received treatment along with free medicines. In the Camp NSS volunteers created awareness on public health, environment, cleanliness and HIV to the villagers.

13	17.11.2015	Clean and green program	One day camp at Government High School in the Pocharam Village on 17 th November 2015 for Clean and Green Program in the School Campus. During the Camp, NSS Volunteers undertaken activities like School campus cleaning, Quiz programs for students and Health awareness Talks.

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.

i) College works with 'RED CROSS' Hyderabad, a charitable organization worldwide. Every year above 350-400 blood donors come from college and contribute to Red cross. Hon'ble President of Red Cross is Governor of Telangana State and college received special appreciation award from him for continuous and maximum blood donation.

ii) About 10 nearby schools and Mandal education offices have received training from college for computer usage for their record maintenance and student data. The schools received computers from College as donations.

iii) As excellent VLSI tools are available in college as world best, college organized staff training programme for nearby Engg. College faculty in 2009 to expose VLSI tools.

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

- The College received IEG/JKC outstanding College award for the year 2009-10. Honorable Chief Minister of Andhra Pradesh has presented the award to Chairman for securing maximum number of placements during the year 2009-10.
- For conducting mega blood donation camps in the college campus regularly, Indian Red Cross Society AP State Branch, Hyderabad awarded CVR College of Engineering with a Memento and a Cup on World Blood Donors day i.e., 14th June 2014 in the Educational Institutional category . Dr.Rajkumar, Principal, CVR College of Engineering received the award from the Honorable Governor of Telangana and AP on 14th January 2014 at Darbar Hall, Raj Bhavan, Hyderabad.
- Careers 360 Recognition: CVR college of Engineering is the youngest college (13 years old) in the group with AAA+ ranking. The age of other colleges is 17-37 years. There are only 11 private colleges in the AAA+ category. The college has improved from its last year's rating of AAA.

3.7 Collaboration

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

- i) College Collaborations with CADENCE has given benefits of continuous supply of VLSI latest tools. These being world top VLSI tools students are getting excellent opportunity in securing good jobs. Teaching staff are getting updated on the tools.
- ii) Collaboration with IIIT, Hyderabad helped three of our faculty to work on their campus in one semester.
- iii) Collaboration with Infosys helped the college to have continuous campus connect programs for students. Many got into Infosys. Infosys also has recommended Industry oriented Elective which has been included in the curriculum.

- iv) During 2008-09, 2009-10 TCS permitted two batches of students to do final year projects in their campus on live projects. These students got jobs in top companies like ADB.
- v) TCS, Hyderabad has come forward to offer internship to our M.Tech students.
- vi) Collaboration with Osmania University EDC unit has given scope to organize EDC programs in CVR.
- vii) Collaboration with EMC Academy, Bangalore has helped to offer special elective “Storage Area Networks” as a joint program. Our faculty and group of students were trained at Bangalore. The company supplied the relevant software also for continuous usage.
- viii) Interaction with various Industry personnel has helped the college to invite specialists to deliver Industry oriented Guest lectures. Every year about twenty five such lectures are organized by placement cell. This has lead to college getting award from Honorable Chief Minister of Andhra Pradesh for maximum placements in State through JKC, a Govt. sponsored placement unit.
- ix) MoU with Mitsubishi Electric India Private Limited on 09th February, 2015.
- x) Collaboration with TASK /Oracle Academy/ Autodesk / SAP Academy for Trainings/Placements.

3.7.2 Mention specific examples of, how these linkages promote

➤ Curriculum development

Experts from industry are on Boards of Studies of all departments, the Academic Council and on Governing Body. They provide inputs for the current requirements for employment of students. The curriculum is designed to fulfill these requirements of the industry.

➤ Internship, On-the-job training

Students who are interested in industrial training undergo internship during summer and winter vacation, after completing III year of study.

Some of the companies require the students who have secured placements to undergo internship for one semester. It provides on-the-job training to the students. List of students for 2014-15 is furnished below:

S.No	Roll.No	NAME	Dept	Placed in
1	11B81A0227	Mogireddy Indrakaran Reddy	EEE	GGK Tech
2	11B81A0431	Nalla Diya Sri	ECE	GGK Tech
3	11B81A0447	Kunal Singhal	ECE	TCS, BroadCom
4	11B81A0484	D. Prem kumar	ECE	GGK Tech
5	11B81A04A8	Guduri Sai Teja	ECE	GGK Tech
6	11B81A04C6	Palla Shravani	ECE	GGK Tech
7	11B81A04D1	B Sneha	ECE	GGK Tech
8	11B81A04D8	Tavisi Sravan Kumar	ECE	GGK Tech
9	11B81A04F2	Pallerla Suhruth	ECE	Capgemini, Broadcom
10	11B81A04F7	Sushmitha	ECE	HSBC, Broadcom
11	11B81A0524	Dasika Hitesh Kumar	CSE	HSBC,Pranathi Software, Mission R&D
12	11B81A0532	Vedurumudi Krishna Nikhil	CSE	TCS, Mission R&D, Kony Labs
13	11B81A0538	Manikyarao Manish	CSE	Virtusa
14	11B81A0570	Voruganti Sahithi	CSE	GGK Tech
15	11B81A0586	Sathvik	CSE	TCS, Virtusa, Broadcom

16	11B81A05A3	Popuri Srija	CSE	TCS, ADP, Tera Data, Mission R&D
17	11B81A05A6	Yellanki Sumana	CSE	TCS, Virtusa, Acce IQ, Mission R&D
18	11B81A05B9	K. Yashwanth Reddy	CSE	GGK Tech
19	11B81A1219	Gaddam Uma Reddy	IT	GGK Tech
20	11B81A1220	Veligeti Hareesh	IT	GGK Tech, Mission R&D
21	11B81A1225	Bonthala Janaki Ram	IT	Virtusa
22	11B81A1237	Anyarambhatla Mounika	IT	TCS, Virtusa, Mu-Sigma
23	11B81A1254	Mohammad Rafique	IT	GGK Tech
24	11B81A1281	Duddukuri Shiva Kumar	IT	Pranathi Software, Mission R&D
25	11B81A12A5	Syamala Uday Kumar	IT	GGK Tech
26	11B81A12B2	P. Venkata Sai Lakshmi	IT	Virtusa

In similar lines the number of students under internship with various organization for **2012 admitted batch is 141.**

➤ **Faculty exchange and development**

Experts from research centres and industries deliver special lectures in faculty development programmes. They also highlight current topics for research and interact with the faculty members. Faculty members benefit tremendously through such interaction.

➤ **Research, Publication**

Faculty members and students interact with experts from defence labs, NRSA, other corporate such as Synopsis to carry out research work. The results of research culminate in publications. Such collaboration has set in a research atmosphere in the College, encouraging junior faculty members and students to take up research. Many faculty members publish technical papers in journals and conferences.

➤ **Consultancy, Extension**

Interaction, linkages and collaboration with organizations has promoted consultancy in the college. The department of ECE has extended consultancy services for projects with the DRDO. Currently negotiations with ECIL are under way. The departments of EEE and Mechanical Engineering have participated in the solar power project of the college. The department of Civil Engineering, in its inception stage, has initiated interaction with Officers of Metro Rail and R&B, HMDA, Hyderabad.

Faculty members of CSE, IT and ECE are resource persons in Faculty Development programmes. Students have taken up the activity of training teachers in the neighborhood schools on computers. The computers are donated by the college. The teachers in turn propagate computer literacy among their students.

➤ **Student placement**

Students participate in training programmes leading to placements from second year B.Tech onwards. Infosys and Wipro conduct these programmes along with the faculty members. These are organized by the Placement Cell. This ensures readiness of the students for the placement interviews. Students are able to do well and secure jobs in reputed organizations.

Intel Corporation conducts competitions in VLSI projects and selects competent students from M.Tech course for placements. Introduction of Campus Connect Programmes (CRT), Compulsory value added courses; many Guest Lectures have improved a lot on over all placements. About 30 companies recruit CVR students.

3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching learning, research and development activities of the College?

List of MOUs signed:

MOU was signed in 2003 between CVR, JNTU and Intel, Bangalore to organize short term courses on “Micro Processors” to identify the gap between teaching & Industry.

- i) 5 day workshop was organized in December 2003 in which 60 participants from 30 Engineering Colleges have attended. The resource persons are fully from Intel Bangalore.
- ii) One day workshop was held on Micro Processors by Intel, Bangalore in 2004 at CVR College of Engineering exclusively for CVR faculty.

Contribution:

1. Intel is an International organization. The workshop was mainly to identify the requirements of Industry in Micro Processors over and above the contents of Syllabus. Participants have gained useful matter since all the resource persons are from Intel.
2. MOU signed with Wyne State University, Detroit, USA.
3. The MOU was signed in 2008 by the Officials of Wyne State University, Detroit, USA and CVR College of Engineering. The purpose is for transfer of students from mid level of completion of B.Tech at CVR College of Engineering to continue at Wyne State University accepting credit transfer. This is applicable to M.Tech too. It also covers faculty exchange programme.
4. Contribution: It is a good scheme for the students to get degree from Wyne State University by studying for two years. There are limitations of financial needs to study for 2 year. Administrative Procedures from the University and the State Government including AICTE are to be cleared.
5. MOU was signed between CADENCE, New York and CVR College of Engineering in 2004 in the presence of V.C. JNTU.
6. Contribution: We are happy that world best VLSI Tools are supplied by CADENCE including offering training to our staff. The renewal is continuously going on every year, making payment biannually in US dollars.
7. Another 3 day training programme was organized on Cadence Tools, Installation and Practice by Mr. Sharath, Cadence Design Systems, Bangalore.
8. MOU was signed between consortium of 30 Engineering College in which CVR College of Engineering is a member with IUCEE, USA to deliver Guest Lectures from Specialists from USA. For each lecture one college will meet the expenditure for organizing meeting. Two lectures were organized so far.

9. Collaboration with IIIT helped three of our faculty to work in their campus in full semester. This has helped to organize training to our students under their guidance.
10. Collaboration with EMC, Academy, Bangalore in 2007. This has helped to offer special elective on “Storage Area Networks”. Our faculty and group of students were given training by them.
11. Collaboration with Infosys is helping our students to have campus connect programmes every year. They are also recruiting our students. In 2014 year 165 students were selected in campus selections. The Infosys proposal of elective has been included in the curriculum as Industry Sponsored Elective
12. Collaboration with TCS is helping to have internship for our M.Tech students. Two batches of B.Tech have worked in their campus on Live Project in 2009-10

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

All the Departments with their interaction with Senior Engineers of various Industries have developed specialized Labs/facilities:

S.No.	Department	Specialized Labs
1	Civil	- Concrete Lab equipped with Automatic Compression Testing Machine of 3000 kN capacity. - Advanced Structures Lab equipped with Nondestructive Testing facilities
2	CSE/IT	Virtusa Centre of Excellence (under establishment) IBM Server Two Computer Labs are upgraded by replacing the existing old systems by 64 Zenith Smart echo PC (dual core with 2 GB RAM) systems for each lab. Existing labs for II, III, IV year were upgraded with Inter Core 2 Duo, Server
2	ECE	- VNA, 200MHz Digital Storage Oscilloscope in Microwave & Communications lab - VLSI Design tools from Cadence Design Systems as part of Cadence University Program. - MS2711E Spectrum Analyzer with frequency range 9 KHz to 3GHz—ECIL - DS1102E Digital Storage Oscilloscope with 100MHz frequency –DRDL
3	EEE/EIE	- Proposed Factory Automation Engineering Centre worth Rs 8 lakhs to be set up by Mitsubishi in CVRCE - Thermocouple Module - PLC Trainer with Scada by Multitech Systems

CRITERION-IV: INFRASTRUCTURE & LEARNING RESOURCES

4.1 Physical Facilities

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

The College Management interacts with Stakeholders, faculty, alumni, students, parents and industry representatives to know the changing trends and requirements of industry and to facilitate good employability for students. Accordingly creation and enhancement of infrastructure facilities are planned.

Present campus area is about 27.24 acres in which built-up area is 47623 Sq.mts. This has ensured adequate availability of physical infrastructure. The available infrastructure is always more than required as per Norms of AICTE and JNTU, the Affiliating University.

The utilization of the available infrastructure is optimal

Main building for all departments, a separate building for I Yr. students, a common Auditorium, Laboratories for the respective Departments are fully utilized.

Library works for extended hours with internet facility and digital library

CSE block, Main building for Administration and ECE, PG block for Civil, Mechanical, Electrical and IT branches are utilized to the full extent. Keeping in view the I Yr. sections, a block exclusively for I Yr. students is constructed and fully occupied from this academic year 2014-15.

The College Governing body approves the plans for enhancement of infrastructure.

Library Advisory Committee consisting of Heads of the Department of all branches recommends books and magazines to be subscribed.

College has an ATM for banking all the time.

Total building space, building wise is listed below:

SL.NO	BUILDING NAME	BUILT UP AREA(sqms)
1	AC ROOF BUILDING – 1 (AC1)	1025
2	AC ROOF BUILDING – 2 (AC2)	1827
3	COMPUTER BLOCK (CB)	4825
4	MAIN BLOCK (MB)	7989
5	AC ROOF BUILDING – 3 (AC3)	801
6	EXAM HALL (AC4)	1102
7	PG BLOCK (PG)	9570
8	BOYS ‘ HOSTEL	4160
9	LIBRARY	1798
10	STUDENT CENTRE	3364
11	FIRST YEAR BLOCK	10772
12	AC ROOF BUILDING -5 (AC5)	390
	Total	47623

The following are the infrastructure details for the academic year 2014-15 for various courses of B.Tech & M.Tech. It is always seen that the facilities available are more than norms.

Programme	Room Type	Number	Available Area (Sq.M)
B.Tech.	Class Rooms	71	4970

	Tutorial Rooms	18	911
	Laboratories	95 Units (each of 66 Sq.m. min)	7675
	Workshop	2	410
	Computer Centre	1	205
	Drawing Halls	3	588
	Library & Reading Room	1	1553
	Seminar Halls	10	1380
M.Tech.	Class Rooms	16	888
	Research Lab	6	432
	Regular Lab	6	432

Further the College has other Instructional Areas like Examination Halls, Department Libraries etc., Administrative, Amenities and Circulation areas are more than required as per norms of AICTE and JNTU.

Creche and Ladies lounge facilities have been created and are now being utilized.

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes. Apart from the adequate availability of physical infrastructure, the College has planned for future expansions or additional requirements that may be needed with the passage of time to promote a good teaching-learning environment. From this academic year onwards a new building block exclusively for first year students of all branches has started functioning. This was planned well in advance and necessary initiative was taken to create a separate infrastructure for first year students. Similarly keeping in view the significance of placements, a separate infrastructure spanning two floors was created for conducting placements.

Building activity is a continuous activity with College

Power supply is abundant and there is no interruption in power.

The following is the availability of power to meet all the academic requirements of College including Hostel:

Electricity:

Generators of capacity 30 KVA, 62.5 KVA, 100 KVA, 125 KVA & 380 KVA are installed in Power House.

Presently used for requirements = 269.2 KW + 82 HP.

Reserve power available for future courses and expansion = 190.8 KW + 48 HP.

It has optimum performance and serviceability over the complete operating range.

Power Backup:

UPS facilities for power backup of the following:

i) 20 KVA - 19 Nos. (New UPS systems Nos.13 are added in 2015 and installed in different blocks.)

ii) 10 KVA - 2 Nos.

iii) 6 KVA –1 No.

iv) 3 KVA -1 No.

Every Computer centre/ Lab is having UPS power backup of 2 hours.

Solar Power Plant:

120KW Solar power plant was installed at PG Block (roof top).

With the increasing energy demands we took an initiative to generate and utilize eco-friendly energy in our college campus. Solar Power Plant installed in college on roof top of PG block is operating now to produce 120KWP (Kilo Watt Peak) capacity with local utilization without battery backup.

A part of our campus load is being supplied by solar power .The technical details of the installed power plant are as follows.

Total Solar power plant capacity: 120KW.

2×60KWP units with 6 string inverter are installed to generate the required power.

No. of panels are 480 with each rated at 250WP and as a whole generates 120KW.

There is an investment of Rs.114 Lakhs for this Solar plant with a subsidy of Rs.30 Lakhs. The Govt. of India Company PEC Ltd who are the EEC contractors, have installed the solar plant. It is proposed to upload the power to the grid on non-working days of the college which will reduce the burden of state electricity supply up to certain extent.

It helps the students to acquire the practical knowledge of tapping the power from non-conventional source of energy which will implant the need for Renewable Energy Sources in minds of younger generation.

Photo shown below is part of 120KW Solar Plant installed on roof top of PG Block:



Tracking Solar PV Plant (40kW): As a part of social responsibility and to set up icon for coming generations, besides a 120 kW of solar PV plant which is already installed on roof top of PG Block serving almost 28 - 30% of the energy demand in the campus, another plant of 40 kW of solar PV with single axis tracking has been installed on roof top of Main Block of the college which improves the generation substantially.

In contrast to the conventional manual tracked solar PV which is installed on roof top of PG Block, this single axis Solar PV will have a controller which tracks solar insolation from morning to evening and is equipped with a controller which enables to vary the tilting angle according to the sun direction. A small motor with gear mechanism is used in auto tracking for tilting the panels. Photos show different positions of panels, time wise.

It is observed that there is a substantial increase in power generation when compared with manual tracking or seasonal tracking.

The college has also planned to expand the green generation in very near future to serve the major part of the load in the campus with solar PV, which reduces the burden on the utility grid and make the campus eco-friendly.

Photographs shown below illustrate the position of Solar Panel with reference to position of Sun:



Solar Water Heater plant at CVRCE Hostel:

Two solar water heater plants (Solar-Thermal) have been installed in the hostel with the capacity of 2500Lts each. Such two storages together produce totally 5000 Lts of hot water readily available for bathing and the usage in hostel.

This facility has allowed us to withdraw energy demand of 4 geysers which will consume around 16kW and considerable reduction in CO₂ emissions. This shows our dedication towards the dependency on green power harvesting which will send a positive sign to the students. Canteen also has solar plant for cooking.

Solar Power Grid:

Grid connected solar PV Plant of 280 kWp has been established on roof tops of various blocks in the College Campus. Solar plants installed on roof top of hostel and canteen are exclusively used for supply of hot water to the inmates. This intern has helped in saving conventional power.

The solar power is pumped into the grid during non-working days of the college to reduce the burden of state electricity supply. It helps the students to acquire practical knowledge of tapping the power from non conventional source of energy which will implant the need for Renewable Energy Sources in minds of younger generations.

In summary the installed solar power plant grid details in the college are furnished below:

Name of the Sub Plant	Installed Power	Date of Commencement of Plant	Energy produced as on date (kWh) As on 10.12.2015	Reduction in CO₂Emission (Tonnes) As on 10.12.2015
CVR PG Block	120.00 kWp	03.03.2014	331,462	182
Single Axis Tracking	40.00 kWp	18.01.2015	69,160	38
Library	20.00 kWp	23.02.2015	25,334	14
Single Axis Polar Tracking	40.00 kWp	11.03.2015	58,881	32
CVR CSE Block	60.00 kWp	22.10.2015	23,205	13
Overall Plant Capacity	280.00 kWp	---	508042	279

4.1.3 Does the College provide all departments with facilities like office room, common room, and separate rest rooms for women students and staff?

Yes. Every department has adequate number of class rooms, tutorial rooms, faculty room, and separate lady faculty room and seminar hall. Separate faculty rooms for women and **student**

lounge for girl students are provided. In addition a **crèche** facility was created to take care of children of faculty members. All Departments have Head Chambers and Office for Department. College has separate Lady faculty rooms and girl students lounges with separate toilets.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

Lifts and ramps are provided in the campus buildings for the convenience of students/staff with disability. Department staff at library and canteen assist them.

4.1.5 How does the College cater to the residential requirements of students?

Mention Capacity of the hostels and occupancy (to be given separately for men and women)

Recreational facilities in hostel/s like gymnasium, yoga center, etc.

Broadband connectivity / Wi-Fi facility in hostels.

Hostels are provided to the students

Capacity of the hostels & occupancy the boys hostel of 240 capacity is provided in the campus with dining and kitchen.

Outdoor and Indoor Sports Facility including Billiards in the campus is fully utilized by hostel boys. Gym is available.

Broadband wifi connectivity facility is available at Hostel also.

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

A Health Centre is available within the campus during working hours with a qualified nurse. Full time Doctor is available on all working days. Blood Sugar, ECG, BP Tests etc., are available. First Aid, Medicines and Ambulance are available. College has referral with a hospital at Ibrahimpatan (3 KM distance) and Appollo Hospital in the City. Stock Registers and Usage Registers are regularly maintained.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

A sports complex with tennis court, basket ball court, cricket ground, badminton courts, and wide hall for indoor games is present. Billiards, Tennis, Volley ball, Foot Ball, Throw ball Basket Ball, Cricket, Caroms, Chess and Table Tennis are the usual games available in the campus. Four Physical Directors look after the sports complex and manage sport activities. Usually during February and March of every year, sports competitions are conducted. Prize winners are felicitated in College Annual Day normally held at the end of March every year. College encourages students to participate in events organized by other colleges and University. Our College students have been participating National & International Sports events, winning awards and medals.

Cultural Department is established with a designated coordinator to facilitate all the cultural/extra-curricular activities of the College. A common Auditorium with a capacity of 900 is available for conducting events. Separate seminar halls are provided for each department. One AC Seminar hall is available with a seating capacity of 200.

Photography club and Literary & Debating Club are initiated by students and students are encouraged to show case their talent in the form of exhibitions. Some of our students participated in the nation exhibitions winning some awards.

4.2. Library as a Learning Resource

Ground + Two storeyed exclusive Library Blok is available for library usage from usage area of 1550sqm.

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Our college has an advisory committee with Principal as Chairman and Head of the Departments as members. Librarian procures the books as per the recommendations of the committee from time to time. In addition, certain specialized books are sent to Department Libraries for their exclusive use.

The significant initiative implemented by the committee to render the library user friendly:

1. Users are reminded with information regarding renewals and over dues.
2. Library working hours have been extended to 6 PM during the working days.
3. Any suggestions/grievances are invited from users through suggestion book and action is taken accordingly after discussion with Committee.
4. The student can access publications and question papers
5. Digital Library has been set up with 20 systems connected with high- speed network connectivity to access all e-resources and video streaming e- learning program.

4.2.2 Provide details of the following:

Total area of the Library (in Sq.mts.): **1550 Sq. mts, in three floors**

Total seating capacity : **300**

Working hours

On working day : 9:05 am to 6:00 pm

On Holidays: : 9:05 am to 4:00 pm

Before Examinations : 9:05 am to 6.00 pm

After Examinations : 9:05 am to 6.00 pm

During vacation : 9:05 am to 4:00 pm

Layout of the Library

Individual reading carrels: **YES**

Lounge area for browsing and relaxed reading: **YES**

IT zone for accessing e-resources: **YES**

Access to the premises through prominent display of clearly laid out floor plan: **YES**

Adequate signage: **YES**

Fire Extinguisher: **YES**

Access to differently abled users and mode of access to collection: Yes, Entrance ramp and lift are available in library.

Library staff personally assist the differently abled people in accessing and using library resources.



Photo shows entrance of 3 storey independent Library building:

4.2.3 Give details on the library holdings**Total No**

a) Print (Books, back volumes and thesis)	61659
b) Non Print (Microfiche, AV): (CD/DVD)	4074+768
c) Electronic (e-books, e-journals) databases	1537, 795(Dell net) , 2233 (IESTC)
d) Special collection (E.g. Textbook, Reference books, standards, patents) Book Bank for SC/ST students.	12863 8485 (included in (a))

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

OPAC: software interface between the user and collections of a library.

End users can access information through Newgenlib.

Library Website: yes; constituted with college web portal

In-house/remote access to e-publications: In-house access to e-publication is available through Intranet.

4.2.5 To what extent is the ICT deployed in the library?

Library Automation : Library is automated using Newgenlib. The library services are fully automated through using the standard library package Newgenlib. All the transactions are fully computerized and all the documents are bar coded. The bar code ID and scanner are used for charging/discharging the books.

Total number of computers for public access	20
Total numbers of printers for public access	2
Internet band width speed	>100 MBPS
Content Management system for e-learning	NPTEL Video streaming courses have been uploaded to server
Participation in Resource sharing networks/consortia (like Infilibnet)	DELNET

4.2.6 Provide details

Average number of walk-ins	465 per day
Average number of books issued/returned	600-650 per day
Ratio of library books to students enrolled	1:15
Average number of books added during last three years	3792 per year (3172 are added in 2015-16 till Jan. 30 th , 2016)
Average number of login to AOPAC	Average 15 per day
Average number of login to e-resources	15-20 per day
Average number of e-journals/resources	Downloaded/Printed 150

4.2.7 Give details of the specialized services provided by the library

Reference: has leading printed/online Reference collection, Resources include special collection of subject references, competitive Exam books (GATE, TOEFL etc.), CD's/DVD's, IS Standards, McGraw Hill access engineering online.

Reprography : Yes

Information Deployment and Notification: Alert to departments regarding new arrivals.

OPAC : Web enabled OPAC through Newgenlib and Intranet

Internet Access: Yes

Downloads: Providing downloads of e-resources

Printouts: Available on request

Reading list/ Bibliography compilation: Displayed shelf list with classification numbers

In-house/remote access to e-resources: In-house access to E-resources through IP enables.

User Orientation: Student Orientation will be conducted at the beginning of the academic year.

Assistance in searching Databases: library staff assists the users in search & download of library resources as per the requirements.

INFLIBNET/IUC facilities – No

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

Amount spent during 2013-14 for books and journals: Rs. 22,33,183/-

Budget allotted for 2014-15: Rs.25,00,000/-, spent Rs.20,61,453/-

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.

Library gets its feedback through student satisfaction survey at the college level. Further, indirect feedback is received through the complaint and suggestion box kept at all the library units. Library committee analyses such suggestions/complaints and corrective plans are suggested for approval by Principal.

4.2.10 List the infrastructural development of the library over the last four years.

All departments have Departmental libraries. Central library transfers respective books to them periodically to ensure access to the concerned faculty.

20 systems are installed in the library for digital access.

20 head phones are in use to access NPTEL /Video programmes.

LCD Projector is available for presentations and screening.

New server is installed for E-Learning, Digital Library and Library Automation

Scanner, Bar-Code Scanner, Bar Code Printer are available for use.

Journal Display Racks and Shelves are used for display.

4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the college to facilitate better Library usage?

Our library conducts orientation programme for students every year. Additionally in-house presentations are given for faculty regarding the facilities in library and additions made.

Library Staff attend workshops and conferences organized by other institutions. Some of them are given below:

Workshops/ Seminars attended by Library Staff (2011-15)

- Course on Digital Resource Management in Libraries from 20-06-2011 to 25-06-2011 sponsored by UGC held at UGC Academic Staff College , JNTU, Hyderabad
- Two day National seminar on Management of Digital Resources on 19 -20th August 2011, at Sarojini Naidu Maha Vidyalaya , Exhibition Grounds , Hyderabad
- One day Workshop on DELNET : Resources , Services and Facilities on 13th August 2012 at Malla Reddy College of Engineering, Hyderabad
- IEEE Explore Digital Library User Awareness Workshop on 2nd August at JNTU, Hyderabad
- National Level Workshop on NewGen lib Open source Library Management Software from 03-03-2014 to 5-03-2014 at CMR Engineering College , Hyderabad.
- One day workshop on Delnet on 12.09.2015 at Vignan University, Guntur.
- One day conference **Soference** 2015 at TCS, Hyderabad.

4.3 IT Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

YES, Information and network security is provided through firewalls to handle misuse of IT services provided. Antivirus Kaspersky Endpoint security 8 is installed in all computers to handle malware risks.

4.3.2 Give details of the College's computing facilities (hardware and software).

All systems in the college are with configuration Pentium 4 and above .Periodically the existing old systems are replaced by new configuration systems.

All the servers located in various laboratories are connected by a optical fibre cable links. This will make the access of any software present in the college to be used by any systems across the laboratories. This also facilitates conducting online examinations for recruitment by various companies connecting systems from various laboratories to the company servers for recruitment process. (Example: TCS requires about 600 systems to get connected to their server).

A list of such added systems since 2011 are given below.

Computer Systems Added since 2011:

Date	System Configuration	Nos	Rs.
27.04.2011	Zenith, Dual core5500, Intel G41 Chipset, @ GB RAM,500 GB HDD, VG 46" LCD Display	1	1,05,000
7-09-2011	Zenith, Smart Echo, Intel C2D T6670, @ GB RAM,320 GB HDD,18.5" LCD, 2.2 GHz	120	24,90,012
19-10-2011	ENJ-ULTRA Mini PC -BLX , Samsung 18.5 Monitor (Thin Clients)	25	2,04,125
8-11-2011	Zenith SSPC, SSEPHM65, Intel HM65 Chipset,3M Cache,corei3, 2 thread,2GB DDR 3, 320 GB SATA-II , 18.5"LCD, 2.2 GHz	15	3,45,004
25-07-2012	Zenith SSPC, SSEPHM65, Intel HM65 Chipset,2M Cache, 2 core, 2 thread,2GB DDR 3, 320 GB SATA-II , 18.5"LCD, 2.1 GHz	150	32,999,40
22-12-2012	Zenith Pentium PC, Intel H61 Express, Dual Core Chipset,3M Cache,corei3, 2 thread,4GB RAM, 320 GB SATA-II , 18.5"LCD, 2.8 GHz	20	4,00,002
10-03-14	Lenovo TC M 73 I – G 3420T, 4GB RAM,500 HD, 18.5" LCD	65	17,87,488
20-04-2014	HCL Dual Core,G2020, 2.9 MHz, 4GB RAM,500 GB HD,18.5" LCD	85	18,70,700
Laptops 11-10-2014	HP, 15-R-074 TU Model	6	1,54,800
15-01-2015	Acer-V-H81 / Intel Pentium Dual Core P3220 , 4th Gen / 2 GB DDR3 RAM/ 500GB SATA HDD / 18.5 " LED Backlit wide Monitor	250	53,62,500

Systems added after 15th January, 2015			
Laptop 26.01.2015	Dell Vastro-3446-14"	1	27,799
29.09.2015	ACER Systems UX.VJSSI k54 Veriton MT-H81 PDG3250/2GB DDR3/ 500GB/KB, mouse /185 LCD Monitor	250	65,14,500
Laptop 28.12.2015	Lenovo-G50-3080G00IVNiN 15.6" Laptop. 4GB /500GB	1	18,090
30.12.2015	Acer-Systems Veriton MT-H81, PD-G-3250 2GB-DDR- 3 500 GB HDD KB Mouse 18.5' LCD Monitor	150	33,07,500
Laptop 21.1.2016	MH-SPNA-142031041-4805 Lenovo Z-51-70, 15.6" Laptop I 7 Laptop 8GB/ITB/Win10	1	59,399
	MH-SPNA-145736141-343 Lenovo Z-51-70 15.6" I7/8GB/ITB/win.10	1	59,399
	MH-BoM4-144105041-1195808 LenovoZ51-70.15.6" Laptop I7-55006/8GB/ITBwin10.	1	59,499
Laptop 30.1.2016	Compage Computers Pvt. Ltd. Lenovo G50-80	5	140000
Laptops 30.1.2016	Compage Computers Pvt. Ltd. Lenovo G50-80	95	26,60,000

Servers:

14-06-2011	Apple Mac Mini (MC438hn/a) with snow Leopard server 2.664GHz, Intel core2 Duo, 4GB RAM, Dual 500GB HDD, SAMSUNG 18.5" LCD monitor	1	48201.92 2884.62 12500.00
28-05-2011	Apple I Mac 2.7 GHz, quad core Intel core I 5(MC813), 4 GB DDR-III Ram, 1TB HDD, DVD Drive	1	82,211.54
10-06-2011	Apple I Mac 2.8 GHz, quad core Intel Xeon(M915HN/A)3), 8GB DDR-III RAM, 1TB HDD, DVD Drive	1	1,72,403
10.1.2012	HP Proliant ML 110 G7 server 8GB RAM, Intel Xeon E3-121D, 3.1 GHz	4	1,76,400
1.03.2014	IBM server x3300 M4, 7382ILA, DELL 18.5" LED Monitors	3	3,44,295 17,400
Servers added after 1st March, 2014			
18.09.2015	IBM x3100MS (54571YA) Server + DELL 18.5 LED Monitor	2	1,08,500 11,200
18.09.2015	IBM x3300M4 Server + 18.5" DELL – LED Monitor	2	2,31,000 11,200
4.12.2015	Lenovo x 3250M5 Server + DELL 18.5 LED Monitor	3	2,12,850 5,600

Printers Added Since 2011:

20-04-2011	Cannon 2900	5	29,000
24-06-2011	Cannon LBP 2900	1	5,7000
01-08-2011	Cannon LBP 2900	5	27,750
01-08-2011	Samsung SCX3201	1	7,900
19-10-2014	Samsung SCX3201	3	23,925
05-12-2011	TVS MSP 450 Champ	14	1,36,500
05-12-2011	Samsung SCX 3201	12	93,000

05-12-2011	Cannon LBP 2800	20	1,13,000
18-02-2012	HP Deskjet 2010	1	3,200
04-12-2014	Cannon 2900 LP	2	13,400
04-12-2014	Samsung SCX3401	3	26,100
Printers added in 2015			
06-01-2015	Samsung 3401 (All in one)	3	25,500
31-03-2015	Samsung SCX3401	1	8500
29-6-2015	TVS-HD-945-DMP	1	26,750
31-8-2015	Brother MFC 2541 DW	1	14,800
8-10-2015	HP Colour Laserjet CP1025	1	12,700
8-10-2015	H.P. Laserjet M1005	5	63,500
8-10-2015	HP Laserjet 1020 Plus	8	60,800
27-10-2015	HP Colour Laserjet 1025	1	12,700
02.12.2015	TVS-MSP-450 Stan	1	9,950
09.12.2015	AP Laserjet 1005 M	2	25,400

Network Hardware (Devices, Racks, Connectors, Cables etc.,)

From 6-08-2013 To Dec 2014	Cables, Routers, connectors, Port switches, Converters, Switch Racks with accessories, Patch Panels, Etc.,	1, 49,000
Added in 2015.		
From 4.02.2015 to 05.01.2016	Cables, Routers, connectors, Port switches, Converters, Switch Racks with accessories, Patch Panels, Etc.,	6, 20, 409

- New systems are added / replacing old systems.

Equipment /services during 2015

- RAM and other hardware for enhancement of systems (From January 2015) : Rs.3,18,547/-
- Internet charges (from January, 2015 to January, 2016) Rs. 5,85,000/-
- LCD Projectors (From 2011 to 2014) Rs.13,90,222/-
- LCD Projectors (from January, 2015 to December, 2015) Rs.6,47,060/-
- Total LCD Projectors available in college as on 31 st Jan 2016 : 60

Number of nodes/ computers with internet facility : 1500

Total systems available : ~ 1500

Printers : ~95

Student Systems Ratio in Labs : 1:1 (In the lab every student has to do independent programming).

A **Computer Centre** for faculty and students in addition to Computer Laboratories is functioning in Main bloc of the college.

The list of Computer Laboratories used for academic work (students and faculty) is given below:

List of Main Computers Laboratories (Exclusively for students)				
Sl. No.	Location		Lab.	Total Systems
1	CB	Cellar -3	CSE Lab - 1	66
2	CB	112	CSE Lab -2	66
3	CB	204	CSE Lab -3	65
4	LIB	201	CSE Lab -4	66
5	FB	204-205	CSE Lab -5	70

6	FB	304-305	CSE Lab -6	67
7	FB	307-308	CSE Lab -7	65
8	CB Cellar-1		CAD / CAM Lab	63
9	FB	113-114	English Language & Communication Skills Lab. -1	63
10	FB	207-208	English Language & Communication Skills Lab.-2	63
11	PG	120-121	IT - Lab -1	66
12	PG	211	IT- Lab. -2	66
13	PG	220- 221	IT- Lab. -3	66
14	FB	116-117	IT- Lab. -4	71
15	MB	203	Computer Center (Common Facility)	69
16	CB	103	Vertusa PEGA University Connect	25
17	MB	216-217	VLSI Lab	68
18	MB	219-220	MPMC Lab	62
19	PG	207	EPE - M.Tech. Lab	20
20	PG	213	M.Tech. EPE Res. Lab.	18
21	MB	218	M.Tch. Res. Lab VLSI	21
22	CB	102	M.Tech. Lab CSE	19
23	CB	110	M.Tech. Lab	20
24	MB	320	M.Tech. ES Lab.	20
25	MB	322	M.Tech. ES Res. Lab.	18
26	MB	114	Communication & Simulation	35
27	MB	312	WMC Lab	18
28	MB	313	WMC Res Lab.	18
29	MB	314	ECA - Simulation Lab	37
30	LIB		Digital Library	20
31	PG	414	Civil Engg	25
Total				~1420

The list of major software which we have is appended below.

AutoCAD 2016 and other AutoDesk software	Oracle 11
Rational Suite	Matlab
ESET NOD32 anti-virus	Cadence Tools
Windows XP SP3	Suite
Windows 7 32 and 64 bit	Xilinx ISE 12.4
Windows Server 2008	Multisim
Windows Server 2012	MASM
Windows 8.1 32 and 64 bit	Keil IDEs
Windows 10 32 and 64 bit	ETABS
DreamSpark Premium Subscription (ALL major Microsoft software/tools)	SAP (Civil Engg)
PTC Creo 2	PSpice
Mastercam	LabView
Adobe Reader etc.	RS View 32
RS Logix 500	RS Linx
8051 IDE	Versapro
Various open-source software OSes/packages such as Ubuntu OS,	Mac OS X Lion
Openbravo ERP etc.	Master CAM-X7
CREC-2.0	ANSYS-15

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

Our College as a policy maintains a regular infrastructure data base of Computers and Accessories. Periodically, the old systems are replaced with systems with an enhanced configuration. The old systems withdrawn are donated to local schools. All Professors and Head of the Departments have independent system each. Faculty have sufficient systems to share. In addition, a **Computer Centre** for faculty and students in addition to Computer Laboratories is functioning in Main bloc of the college.

Periodic review is done to see that latest systems are in use in the college by replacing the nonfunctioning / old systems. For example in 2015-16, about 400 PCs and 100 Laptops have been procured, replacing some old P4 systems.

Configuration of PCs and servers procured since 2011 till Jan 2016 are given in 4.3.2

4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.

Access to, NPTEL, Edusat Programmes and many other online learning programmes of MOOC like courseera.com can be accessed via the digital library facilities that are provided to all the students and staff members to improve quality in teaching, learning and research. In addition IEEE, ACM, etc. papers are available for download. Course files from MIT are also available.

4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

Almost all class rooms are equipped with LCD Projectors and screens to enhance teaching quality. Particularly all I year B Tech classrooms have Projectors fitted in the rooms. In addition departments are provided with laptops and projectors so that faculty can utilize them in handling classes. OHP is in every class room. Department Seminar Halls have LCD projectors.

- LCD Projectors (From 2011 to 2014) Rs.13,90,222/-
- LCD Projectors (from January, 2015 to December, 2015) Rs.6,47,060/-
- Total LCD Projectors available in college as on 31 st Jan 2016 : 60

4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?

Faculty have desktops with internet facilities which can use them in enhancing quality of teaching and learning. Course Materials (MIT etc.,) are available to support them. LCD projectors are provided as an effective teaching aid.

4.3.7 How are the computers and their accessories maintained?

Computers and their accessories are maintained by regular technical staff. A system Administrator and 3 Assistant System Administrators look after the maintenance work. Consumables, spares and accessories are purchased as and when required. Networking such as structured cabling is carried out by reputed vendors. In addition, for power and other miscellaneous work we have technicians and contract workers. The expenditure details are given below:

- RAM and other hardware for enhancement of systems (From January 2015) : Rs.3,18,547/-
- Internet charges (from January, 2015 to January, 2016) Rs. 5,85,000/-

4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

NO

4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

Items	Budgeted in CFY 2013-2014	Actual expenses (till ...) in CFY 2013-2014	Budgeted in CFYm1 2012-2013	Actual Expenses in CFYm1 2012-2013	Budgeted in CFYm2 2011-2012	Actual Expenses in CFYm2 2011-2012	Budgeted in CFYm3 2010-2011	Actual Expenses in CFYm3 2010-2011
Laboratory equipment(computers)	3500000	3161000	3000000	3014000	3000000	2923000	2000000	2040000
Software	200000	200000	200000	200000	200000	179000	200000	179000
Laboratory consumable	100000	80000	75000	74000	75000	85000	50000	75000
Maintenance and spares	700000	700000	800000	705000	350000	300000	100000	80000
Training and Travel	100000	70000	50000	40000	50000	50000	50000	50000
Miscellaneous expenses for academic activities	200000	207000	350000	350000	100000	150000	100000	150000
R&D	100000	60000	75000	50000	50000	50000	25000	20000
TOTAL	4900000	4478000	4550000	4433000	3825000	3737000	2525000	2594000

Budget and expenditure for 2014-15

Items	Budgeted in FY 2014-15	Actual expenses (Lakhs)
Laboratory equipment (Computers +Projectors)	40,00,000	66,61,300
Software	5,00,000	2,00,000
Laboratory consumable	1,00,000	1,38,000
Maintenance and spares	7,00,000	9,68,200
Training and Travel	1,00,000	75,000
Miscellaneous expenses for academic activities	2,00,000	2,00,000
R & D	1,00,000	1,00,000
Total	57,00,000	83,42,500

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes. A designated Officer (Sri M. Narender Reddy) has been appointed to look after the maintenance of buildings/classrooms/workshops/laboratories etc. Periodic measures are taken to maintain the physical ambience of the campus.

Specific initiatives taken

A garden with good plantation has been initiated to maintain the eco-friendly environment. There are lot of grown trees in the campus, giving lot of shade and pleasant appearance.

Landscape over 5 acres is continuously maintained with automated sprinklers. Recycled waste water is used for watering the lawns and plants.

Lawns are maintained around all major buildings

Special plantation programs are celebrated on special occasions.

Clean and Green programs are also initiated in the college.

Fire Alarm and Fire Hydrant Systems

As Fire safety measure, in each multi storey buildings of our college, Fire Hydrant and Fire Alarm systems are installed.

Fire Hydrant Systems, as the backbone of fire fighting system provide a readily available source of water to any point throughout the building. The system installed consists of a water distribution system with a water source, a suction piping, fire pumps and a distributed piping system. The piping system establishes connectivity throughout the building through fire hydrants, hoses and nozzles. Water is supplied as a straight stream or as a spray.

In Fire Alarm system, smoke, heat, or flame detectors are used to detect the outbreak of the fire and alert occupants and fire brigade. Manual call points are included for alert.

All the above systems are installed in all buildings for a total investment of about Rs. 50 Lakhs.

Two photos are shown below indicating ATM and Fire Hydrant in Computer Block and Second Photo showing Water Purifier and Fire Hydrant in PG Block:



4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

Yes.

Technical staff of the College are primarily responsible for maintenance of equipment in the College. Qualified Electricians, Carpenters, Plumbers and other maintenance staff work as regular staff. In addition System Administrator and Assistant System Administrators are available for maintenance of computer systems. Annual Maintenance Contract (AMC) is taken for special equipment. About 40 casual/ contract employees work on daily wages for maintenance of general engineering and buildings. Maintenance section has welding, Electrician, Carpentry, Painting etc. There are about 20 security staff available all through.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

Student Support and Counseling:

For all the I year students, Induction programme is arranged for two days. On the first day the gathering is addressed by the Principal and senior Professors and interaction is encouraged with parents who also attend the meeting.

On the second day, the concerned department students are informed about regulations, importance of study and various labs of the department. All the staff of the department will be introduced to them. Parents will have discussion with the concerned faculty.

- Each class wise list of Mentors is prepared allotting 20 students to each Mentor. This information is well circulated to all the students and parents.
- Separate circular is issued intimating the telephone numbers of all the teaching staff and common staff like Caretakers, Physical Directors etc.
- College has four Physical Directors who are continuously available in the campus to counsel the students regularly.
- Placement Officer and the staff in that unit also provide counseling, collecting email ID and other details of student to create database.
- More attention is paid to I year students as they are freshers in the college. The attendance of every student day-wise is monitored and the same is communicated to the parent even if one session's absence takes place. College believes that the interaction with parents is the best way.
- Professors and invited guests are requested to address the students at the Induction Programme to inculcate the value of ethics and culture.
- A sample Circular is furnished below, illustrating the action taken by College on the first day itself. The Mentor will maintain a register recording the data of all 20 students allotted to him.
- A senior Professor is designated as professor Incharge of B.Tech I year class who is assigned of counseling and monitoring the student performance. He also interacts with class teachers,mentors,parents and students and organizes the counseling activity.

LIST OF CLASS TEACHERS AND MENTORS FOR B.TECH I YEAR/ I SEM. FOR ACADEMIC YEAR-2013-14(as a typical presentation)

Section	Class Teacher	Mentors
ECE-A	Ms. Bhawani Balasubramaniam	Mrs. K. Bhanu Rekha
		M. Ramesh
ECE-B	Dr.S Bharadwaj	Dr. B. Nagalakshmi
		Ms. P. Saritha
ECE-C	Ms Richa Dheer	Mr. S. Anoopkanth
		Mr. M. Naveen Kumar
ECE-D	Dr. N. Aravinda	Mrs. B. Sucharitha
		Mr. R. Tirumala

EEE-A	Dr.Rafiuddin	Mr. Harold Candlin Cyril
		Mr. Samuel. C
EEE-B	Mr.G Mallikarjun Reddy	Mrs. Poornima B. Shetty
		Mr. G. Nagaraju
MECHANICAL-A	Mrs.Vanitha Singireddy	Mrs. M. Uma Sundari
		Mr. Ravindra Kumar
MECHANICAL-B	Mr. Raghavendra Kulkarni	Mrs. G. Mrudula
		Mrs. Jyothi Kiranmai
CSE-A	Mrs.A.Vani Vathsala	Mr. V. Dhattatreya
		Mr. C. Ramesh
CSE-B	Mr.N.Satyanarayana	Mr. Vamshi Vijay Krishna
		Mr. M.A.S.R.Abhilash
CSE-C	Mrs.S.Suguna Mallika	Mr. B. Appala Naidu
		Mr. D. Shankaraiah
CSE-D	Mrs.Kalavathi Mallaiah	Mr. D. Sreenivas
		Mr. D. Subramanyam
IT-A	Mrs E.Jyothi Kiranmai	Mr. R. Gautham Goud
		Mr. P. Sai Shankar
IT-B	Mrs.H.N.Laxmi	Mr. B. Vittal
		Mrs. Vasavi.B
CIVIL-A	Mrs A. Veena	Mr. Sheik Ahammed
		Mr. P. Bhadraiah
CIVIL-B	Mr.Y.Srikanth Mahadev	Mr. G. Bharath Reddy
		Mrs. Vanivasthsala
EIE	Mr.A.Venugopal	Mrs. V. Sucharitha
		Mr. Chandra Shekar

Further for each class, a class teacher and mentors are nominated for keeping close contact with students and to extend mentoring support.

5.1.2 What provisions exist for academic mentoring apart from class room work?

Students participate in other academic areas where faculty assigned for that job will be in a position to mentor

- Extra Curricular activities where a group of students participate in sports and games. They will be under close contact with the Physical Directors offering counseling and mentoring.
- Seminars: Seminars are compulsory for all students during 3rd and 4th year period. There is opportunity for closely guiding the students.
- Technical club and Technical Meets: Students on their own form technical clubs of distinct nature. There is good scope of closely interacting with them.
- NSS and other social activities: Many students participate in activities like NSS, Clean & Green events. On such activities students get in touch with the programme officers and coordinators which will in help receiving mentoring and advice.
- Final year and pre final semester students meet faculty for necessary guidance to prepare resumes/ testimonials. Advise by senior staff is commonly available.
- For organizing Technical meet in College like CIENCIA, Technical Workshop etc. students and staff work together. Students receive lot of counseling and mentoring as well as advise.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counselling, soft skill development, etc.

College provides personal enhancement and development schemes for students in different directions.

1. Soft skills training with the present requirements of a strong base for student in soft skills. College organises a variety of soft skill training programmes such as
 - a) Campus Connect programmes: Infosys organises with College, a campus connect Programme every year to all students in batches. Many experts from HR and Industry deliver talks to the students. Such programmes help in developing soft skills
 - b) Placements and Career Counseling: Placement cell organizes a lot of career counseling programmes from 3rd year onwards. They are like mock interviews, Group discussions, reasoning and logic.

Sample of various programmes organized every year are furnished here under.

Sr no	Date	Name of the Company
1	15-01-2014	AMAZON On Campus Drive for 2014 YOP (CSE&IT)
2	16-01-2014	Tech Mahindra On Campus Drive
3	17-01-2014	Crypsis Technologies
4	19th to 20th Jan 2014	HP Development 2014 & 2013 YOP
5	23-01-2014	ANGLO EASTERN SHIPPING COMPANY
6	07-02-2014	AMAZON On Campus Drive for 2014 YOP (CSE,ITECE,EEE)
7	21-01-2014	Deloitte Collegiate Cyber Threat Competition — Wave III
8	21-01-2014	CommScope on Campus (CSE,ECE,IT)
9	21-01-2014	Contentera on campus
10	1st & 2nd March 2014	Infosys Off Campus Drive for 2013 YOP
11	05-03-2014	GGK Technologies 2014 YOP
12	08th & 9th March 2014	Infosys Off Campus Drive for 2013 YOP
13	9-Mar	HSBC Pool Campus GITAM for 2014 YOP
14	19-Mar	AM Signalling
15	28th March 2014	CSC (Computer Science Corporation Pool Campus Drive
16	14th April 2014	High Radius Technologies Pool Campus Drive
17	18th April 2014	Cognizant Pool Campus at Bharat College
18	26th April 2014	Virtusa Offer letter distribution
19	8th May 2014	Nebulogic Interviews
20	10-May-14	Micro Pyramid Off Campus for 2014 YOP
21	8th June 2014	AMCAT
22	11th June 2014	Broadcom Pool campus drive for 2014 YOP
23	21st July 2014	Deloitte on Campus Recruitment 2015 Pass Outs
24	24th to 26th 2014	Deloitte shortlisted 62 students Training by External Faculty
25	28th July 2014	Deloitte Interviews
26	13th August 2014	TCS Pre-Placement talk-2015 YOP
27	13th August 2014	HCL Off Campus Drive -2014 YOP
28	13th August 2014	ANIL Nair Session B.Tech 2015 YOP
29	3rd Sept 2014	TCS online Test -2015 YOP
30	5th & 6th Sep 2014	TCS interviews - 2015 Pass Outs

31	9th Sept 2014	TCS Results announced & Virtusa online Test
32	10th Sep, 2014	Virtusa Interviews
33	11th sep 2014	Capgemini Online Test for 2015Pass Outs(ALL BRANCHES)
34	12th Sep 2014	Capgemini Interviews
35	13th Sep 2014	HSBC On campus written and interviews (CSE,IT,ECE,EEE,MECH)
36	16th Sep 2014	GGK Technologies 2015 YOP (CSE,IT,ECE,EEE,EIE)
37	20th Sep 2014	Nac-Tech Online Test
38	23rd Sep 2014	Cyient Foundation Mech online exam
39	24th Sep 2014	Guhring (Banglore) HR (Prasanna) Guest Lecture
40	24th Sep 2014	Infosys Aspirations 2020 Programming Contest
41	29th Sept 2014	CommVault On Campus
42	18th Oct 2014	Infosys Session (First year ECE-A,B,C,D and EEE-A,B)
43	21st Oct 2014	ADP on Campus
44	25th Oct 2014	Infosys Session (First year CSE & IT)
45	3rd Nov 2014	Open Text online test
46	4th Nov 2014	HCL online Test (AMCAT) -2013 & 2014 YOP
47	4th Nov 2014	Persistent Online Test (KMIT College)
48	6th Nov 2014	HCL Interviews -2013 & 2014 YOP
49	10th Nov 2014	Mu-Sigma online Test- 2015 YOP (cocubes)
50	11th Nov 2014	Mu-Sigma Interview 2015 YOP
51	11th Nov 2014	CA Pool Campus Drive (JKC) 2015 Yop
52	15th Nov 2014	Global Edge 2014 YOP
53	15th Nov 2014	Broadcom 2015 YOP
54	16th Nov 2014	UNISYS Drive 2014 & 2015 YOP
55	22nd Nov 2014	CA on Campus Drive -2015 YOP (CSE & IT)
56	29th Nov 2014	SAP Online Test 2015 YOP
57	2nd & 3rd Dec 2014	AMAZON TRMS
58	5th & 6th Dec 2014	SAP (B.SC -42 B.Tech-49)
59	6th Dec 2014	Mphasis (AMCAT) B.Sc Students
60	7th Dec 2014	Robert Bosch off campus -2014 YOP
61	9th Dec 2014	Net.Orange On Campus-2015 Pass Outs (CSE,IT,ECE)
62	10th Dec 2014	AMCAT Test Second Attempt
63	14th Dec, 2014	Mphasis off campus Drive -2015 YOP(AMCAT)
64	17th Dec 2014	Nebulogic on campus- 2015 YOP
65	18th Dec 2014	TCS Orientation for (TCS Placed students & Third year students)
66	23rd Dec 2014	CA Interviews -2015 YOP
67	26th Dec 2014	Amazon Development Online Test-2015YOP
68	8th & 9th Jan 2015	Global Edge On Campus Drive for 2015 YOP
69	10th Jan. 2015	PathPartner AMCAT Test
70	12th Jan 2015	MAQ Written Test -2015 YOP(CSE & IT)
71	18th Jan 2015	LG Soft Online Test Pool Campus 2012,13 & 14 YOP
72	21st Jan 2015	Mitsubishi Electric India Pvt Ltd MOU
73	23rd Jan 2015	Contentera Written Test 2015 YOP(CSE & IT)
74	23rd Jan 2015	AMAZON Dev Interviews- 2015 YOP
75	24th Jan 2015	Unisys Pool Campus Drive -2015 YOP
76	19 th Feb 2015	CommScope on Campus DriveCSE,IT,ECE-2015 YOP
77	20 th Feb2015	TCS Off Campus Drive For 2015 YOP
78	23 rd Feb2015	Unisys Interview-2014 &2015 YOP

79	23 rd Feb2015	Unisys Interview-2014 &2015 YOP
80	25 th Feb2015	Polaris Pool Campus Drive 2015 YOP
81	17 th March2015	TCS workshop on technology trends focus areas for students
82	19 th March2015	Virtual Labs workshop JKC
83	25 th March2015	TechMahindra Campus Connect Workshop
84	27 th March2015	Verizon Online Test (AMCAT) 2015 YOP
85	31 st March2015	National Payments corporation of INDIA online test
86	2 nd April 2015	Verizon Interviews
87	7 th April 2015	NPCI Interviews
88	15 th April 2015	Mitsubishi Electric Sponsored Factory Automation Lab Inauguration
89	25 th April 2015	AMCAT 2015 YOP
90	25 th April 2015 26 th April 2015	HP Off Campus Drive 2014 & 2015 YOP
91	13 th , 14 th , 15 th May 2015	Mitsubishi Electric India Pvt.Ltd Faculty Training Program
92	23 rd May 2015	AMCAT Online Test 2016 YOP
93	25 th May 2015	Contenteara Off Campus Drive 2015 YOP
94	6 th June 2015	AMCAT Online Test 2016 YOP
95	8 th June2015	HCL Off Campus Drive
96	9 th July2015	MuSigma Online Test 2016 YOP
97	20 th July2015	Virtusa On Campus Drive For CSE & IT 2016 YOP
98	21 st July 2015	RVM Constructions Pvt.Ltd Drive 2015YOP(EEE,CIVIL)
99	23 rd July2015	Keolis Hyderabad MRTS Drive2015 YOP(EEE,MECH,ECE)
100	24 th July2015	TCS workshop on"Employability skills and Technogy Trends" 2016 YOP
101	28 th July2015	IBM FDP Program at MLRIT College
102	29 th July2015	CA Workshop CSE & IT 3 rd & 4 th year students
103	30 th July 2015	TCS Webinar on Codevita-2016 YOP
104	1 st August 2015	CNET Online Test -2016 YOP
105	3 rd August 2015	TCS Codevita Mocktest
106	12 th August 2015	TechMahindra Team Visit
107	14 th August2015	Deloitte Online test
108	15 th & 16 th August 2015	Mock Interviews and Quant training -2016 YOP
109	17 th August2015	TCS PrePlacement Talk -2016 YOP
110	19 th August2015	Omega TCS Mock test
111	21 st August2015	Deloitte Interviews -2016 YOP
112	31 st August2015	TCS Online Test 2016 YOP
113	2 nd , 3 rd , 4 th Septemper2015	TCS Interviews 2016YOP
114	5 th September2015	Teksystem pool campus drive at Vardhaman Engineering College
115	9 th September2015	US team visit address the MS aspiring students 2016 YOP
116	11 th September2015	L & T Online Test 2015 YOP
117	12 th September2015	Capgemini Online Test 2016 YOP
118	13 th September2015	Capgemini Interviews 2016 YOP
119	15 th September2015	Global Edge MOU
120	16 th September2015	Securifi Online Test 2016 YOP

121	20 th September2015	TSPSC-TCS Ion
122	21 st September2015	ADP On campus 2015YOP
123	5 th October2015	Unisys Online Test 2016 YOP
124	7 th & 8 th October2015	Unisys Interviews 2016 YOP
125	10 th October2015	NTT DataPool Campus Drive 2016 YOP
126	10 th October2015	ADP OffCampus Drive2015 YOP
127	11 th October2015	AMCAT Second attempt 2016 YOP
128	15 th October2015	L & T Online Test For 2016YOP
129	16 th October2015	GGK Technologies
130	17 th October2015	NTT Data Interviews pool drive
131	30 th October2015	GlobalEdge Online Test 2016YOP
132	31 st October2015	GlobalEdge Interviews
133	4 th November2015	Amazon(TRMS) On Campus 2016 YOP
134	5 th November2015	Polaris Workshop 2016 YOP
135	14 th November2015	ETOUCH-2015 YOP
136	19 th & 20 th November2015	TCS FDP Programme
137	20 th November2015	AmazonDev(15 lakhs)online test-2016 YOP
138	24 th November2015	SAP MS Scholar Programme online test2016 YOP
139	28 th November2015	MindTree PoolDrive 2016(AMCAT Test)
140	30 th November,1 st & 2 nd December2015	TASK AUTOCAD Workshop(Civil & Mech)
141	1 st December 2015	Polaris Online Test 2016 YOP(CSE,IT & ECE)
142	5 th & 7 th December2015	Mphasis Special Training Class
143	7 th December 2015	Contentera Drive
144	10 th & 11 th December2015	Mphasis PoolCampus Drive
145	12 th & 13 th December2015	TCS Off Campus Drive for 2015 YOP
146	14 th December2015	Contentera OnCampusDrive 2016 YOP
147	15 th December2015	Polaris Interviews Pool 2016 YOP(CVR & TKR College)
148	17 th & 18 th December2015	HP Off Campus Drive 2016 YOP

- c) Entrepreneurship Development Cell (EDC) : College has a EDC Cell. AICTE has also sanctioned an amount of Rs.4.5 Lakhs in 2013-14 to organize a number of programmes. CVR College and EDC unit of Osmania University have organized three programmes in the College. These programs enhance the capability of students to stand on their own and help others also. Two students of Department IT have started their own firm in IT and Software development

- d) Academic involvement in soft skill programmes:

With the College having autonomous status, the following courses have been included in the curriculum having gone through Board of Studies and Academic Council.

S.No.	Name of Course	When offered	No of Credits
1	English Language Communication skills Lab	1/I Sem	2
2	English Language Communication skills Lab	1/II Sem	2
3	Verbal Ability Lab	II/I	1
4	Reasoning & Logic Lab	II/II	1
5	Advanced English Communication & Soft Skills Lab	III/II	2
6	Data Interpretation Lab	III/II	1
7	Quantitative Ability Lab	III/II	1

All the above courses are compulsory. By incorporating the above courses there is lot of improvement in the communication performance of students. It is noticed that placements have improved considerably.

Innovative Programmes: Students are encouraged to prepare technical papers in advanced topics which help them to improve presentation skills to peer audience.

- e) Professional Societies: Each department has a Professional Society like IEEE, ISTE chapters. These help to organize technical meets for students and also in developing personality and leadership.
- f) Social Activities: Students participate in NSS, Community Development by going to nearby villages. Such activities improve personality and boldness. RED CROSS is one organization which has been highly benefited due to very large number of students donating blood.
- g) Swachh Bharat programs are being conducted in the college both faculty and students. Students accompanied By two or three teachers go to rural villages and conduct Swachh Bharat programs in schools, primary health centres and village streets.



III Year Students Cleaning Computer Lab



(Photo: Career Counseling Programme in Auditorium)

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?

a) The College as well as each and every department publishes brochure : It contains

- Vision & Mission
- Background of Management
- Details of Professors
- Details of all teachers department wise
- Facilities available in college

- Salient features of Labs
- Intake Details
- Placement Activities and Companies visiting the College.

b) News Letter: Published bi-annually

Activities of each department such as the following are published

- Gives information of Publications of Teaching staff and students.
- Guest Lectures organized
- Achievements of students and staff
- List of faculty who have newly joined
- List of faculty who left the college
- Briefs of various functions of College like freshers' day, College day, Graduation day etc.
- Prize winners of students giving name and details
- Gold Medalists and cash prizes awarded to students in Graduation day for various events like end exam, best of internal exam, best project, end exam toppers etc.

c) Website : College has a website having URL: www.cvr.ac.in

College web site gets continuously updated.

- It gives information of college Vision and Mission
- Details of admissions made
- Infrastructure details
- Details of all the faculty of college.
- Department wise vision, Mission , PEOs & PO's
- Academic activities of College and of all departments
- Anyone can have access to the website for detailed information of each item.

5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

No. College does not provide any scholarships excepting incentives to staff and students. Two financial weaker and merit students are given fee reimbursement by an anonymous donor.

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

- 37.60 % Students are receiving financial assistance from State Government.
- 4.21 % Students are receiving financial assistance from Central Government.
- GATE Scholarship is paid @ Rs.8000 p.m sanctioned by AICTE. No. of students availing varies from 30 to 45%, depending on the admission trend.

Under Graduation students who availed financial assistance from State Govt. for the last six academic years (i.e., 2010-11 to 2015-16)								
Sl. No.	Course	Course Year	No. of Students Availed Financial Assistance from State Govt.					
			2015-16 (Yet to Receive full)	2014-15 (Availed)	2013-14 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)
1	B. Tech. (E E E)	I Yr.	44	46	51	46	47	49
		II Yr.	44	50	45	47	49	50
		III Yr.	51	45	46	50	50	39
		IV Yr.	46	45	49	49	39	23

2	B. Tech. (E C E)	I Yr.	96	99	101	115	74	48
		II Yr.	99	99	114	72	48	56
		III Yr.	99	114	73	50	57	43
		IV Yr.	114	73	48	57	42	36
3	B. Tech. (C S E)	I Yr.	106	124	98	60	46	45
		II Yr.	122	95	55	44	45	46
		III Yr.	95	54	41	47	44	38
		IV Yr.	54	40	47	44	37	35
4	B. Tech. (I T)	I Yr.	49	41	60	45	44	45
		II Yr.	39	58	44	44	44	52
		III Yr.	60	42	39	43	50	40
		IV Yr.	42	39	40	49	39	7
5	B. Tech. (E I E)	I Yr.	15	21	20	20	21	17
		II Yr.	21	17	19	18	17	25
		III Yr.	17	19	17	18	25	18
		IV Yr.	19	16	17	27	18	23
6	B. Tech. (CIVIL)	I Yr.	59	47	49	27	28	0
		II Yr.	46	48	27	29	0	0
		III Yr.	48	26	27	0	0	0
		IV Yr.	26	26	0	0	0	0
7	B. Tech. (MECHA -NICAL)	I Yr.	96	84	52	20	25	0
		II Yr.	87	51	20	25	0	0
		III Yr.	51	20	25	0	0	0
		IV Yr.	21	25	0	0	0	0
TOTALS =			1666	1464	1224	1046	889	735

Post Graduation Students who Availed Financial Assistance from State Govt. For the last Six Academic Years (i.e., 2010-11 To 2015-16)								
Sl. No.	Course	Course Year	No. of Students Availed Financial Assistance from State Govt.					
			2015-16 (Yet To Receivefull)	2014-15 (Availed)	2013-14 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)
1	M. Tech. (VLSI DESIGN)	I Yr.	14	12	5	10	0	6
		II Yr.	10	5	10	10	5	6
2	M. Tech. (WMC)	I Yr.	6	6	7	8	0	0
		II Yr.	6	7	8	5	0	0
3	M. Tech. (E.S)	I Yr.	0	4	3	7	0	2
		II Yr.	0	3	7	4	2	9
4	M. Tech. (EPE)	I Yr.	6	6	3	2	0	8
		II Yr.	5	3	2	4	7	0

5	M. Tech.	I Yr.	12	12	13	8	0	10
	(CSE)	II Yr.	8	12	8	12	10	8
6	M. Tech.	I Yr.	0	0	6	3	0	8
	(C.S)	II Yr.	0	6	3	8	8	0
7	M. Tech.	I Yr.	4	8	0	0	0	0
	(Struc. Engg.)	II Yr.	8	0	0	0	0	0
8	MBA	I Yr.	0	0	0	0	0	26
		II Yr.	0	0	0	0	25	33
9	MCA	I Yr.	0	0	0	0	0	0
		II Yr.	0	0	0	0	0	32
		III Yr.	0	0	0	0	32	33
TOTALS =			79	84	75	81	89	181

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

No, College does not have an International Student Cell. However, the College proposes to have one from the next academic year. Following points are under consideration.

- An Overseas Student Cell is proposed to be constituted, as is done at Osmania University.
- A Dynamic Website with video clips is proposed to be created to bring awareness of our college to the outside world.
- A cell to be created and a committee to be nominated so that overseas admissions can be pursued with constant attention and action.
- Admission of PIO is a policy which AICTE has to approve and then by State Government.

5.1.8 What types of support services are available for

*** Overseas students**

Overseas students are not there, at the moment.

*** physically challenged / differently abled students**

Lifts are provided in each building of the College, especially for physically challenged students. Toilets are modified, one in each building, to cater to their needs. Fee reimbursement is separately provided by State Government. Ramps on buildings, wheel chair facility are available.

*** SC/ST, OBC and economically weaker sections**

Financial Assistance is provided to the students who participate in various competitions/conferences in India and abroad.(a) Reimbursement of Registration Fee, transportation fee for conferences /competitions (b) Cash awards are given to the students who perform well in technical events (c) Encouragement is provided to the students who participate in National inter-college and National sports competitions.

Each of the above category students are given financial assistance by the State Govt. through scholarships. College coordinates and gets their scholarships. Thus the college does not insist these students to pay the college fees from their personal resource.

-There is a book bank facility created by Management.

-Admissions are made as a separate Category under statutory % by Convener EAMCET.

-Slow learners are identified to provide remedial coaching.

* **students to participate in various competitions/ conferences in India and abroad**

-Travel allowance and special incentives are paid to students if they present technical papers at conferences.

-Cash awards are given to the students who perform well in technical events

-Encouragement is provided to the students who participate in inter-college and National sports competitions.

-student is given incentives if he publishes a paper in journals, even if he is a joint author with teaching faculty.

-There are instances that Management have provided partial financial assistance to present technical papers in foreign countries.

* **Health Centre, Health Insurance etc.**

Health Centre is available in College during college hours on all working days. One doctor and one nurse are available in the health centre during all the working days.

-Ambulance Facility is available in case of emergency

-Medical Assistance from other Hospitals like Kamineni at LB Nagar etc. is easily reachable due to the efficient transport system of the college. College has referral hospital by name Appollo Hospital at Himayatnagar.

-Financial assistance also provided for the students in case of any health problem / emergency.

-Special care is provided for Hostel Students with vehicle availability in emergencies.

-College health centre has facilities like ECG, Blood sugar analyser etc. There is a separate stock register and issue register (user register)

* **Skill Development (spoken English, computer literacy, etc.,)**

-English Communication Labs are provided to improve students, communication skills, presentation skills, verbal skills etc, as compulsory courses.

-Infosys “CAMPUS-CONNECT” training is provided to every student by subject experts from Infosys to improve their computer literacy.

-Training and placement cell organizes number of pre-placement talks, expert talk by HR Personnel etc. There are as many as 25 to 30 talks arranged every year. In addition, as already mentioned, some soft skills courses are introduced in the curriculum which are compulsory for all students. Each course has 2 periods/ week and one credit for evaluation.

* **performance enhancement for slow learners / students who are at risk of failure and dropouts**

Remedial Classes are conducted after college hours for slow learners. Teachers are allotted to help such students.

Make up and tutorial classes are arranged for slow learners separately on Saturdays as there will be no regular call work on Saturdays.

Tutorial classes Time Table for I Year I Semester for the academic year 2013-14

DAY	9.15-10.05	10.05-10.55	11.05-11.55	11.55-12.40		1.25-2.10	2.10-2.55	2.55-3.40
Monday		CSE-B PSC			LUNCH			CSE-C ECH CSE-D EDP
Tuesday		CSE-A- PSC		CSE-B- M-I			CSE-C MI	CSE-D ECH
Wednes day		CSE –A M-I CSE-B EDP	CSE-A ECH CSE-B ECH	CSE-C EDP				CSE-D MI
Thursda y								CSE A EDP
Friday			CSE-C PSC				CSE-D PSC	

REMEDIAL CLASSES FOR I YEAR IST SEM STUDENTS: 2013-14

DATE	9:15 – 10:45 AM	11:00 AM – 12:30 PM
19.10.2013	M-I (Rafiuddin)	EP/ECH R.Kulakarni/A.Venugopal
26.10.2013	PSC (Vanivathsala)	EDP Eerendra Malekar
2.11.2013	M-I Y.Sreekanth Mahadev	EP/ECH S.Bharadwaj/P.Saritha
16.11.2013	EDP G.Mrudula	PSC (Vamshi Vijay Krishna)
23.11.2013	EP/ECH B.Nagalakshmi/G.Nagaraju	M-I (G.Sreedhar Sarma)
30.11.2013	PSC S.Anupkanth	M-I (A. Veena)
7.12.2013	EDP B.Appala Naidu	M-I (D.Srinivas Reddy)
14.12.2013	M-I D.Sankaraiah	EP/ECH (Poornima B. Shetty/Vasavi.B
21.12.2013	PSC Bhagya sree	EDP (G. Naveen Kumar)
4.1.2014	EDP P.Naveen Kumar	M-I (V.Rama Krishna)
18.1.2014	M-I P.Meenakshi	EP/ECH (V.Sitha Rama Raju/ Hussanin Basha)

Note: Detailed time tables for various classes and years are available with respective departments

* **Exposure of students to other institutions of higher learning/ corporates/business houses, etc.**

Provides support to the student to do their internships in corporate/business houses. Students are given financial assistance and special incentive if they go to institutes of higher learning (like IIT, NIT, BITS etc).

Students are encouraged to present technical papers at other institutions. On an average

about 40 students take part in such activities every year. Records are available in Departments

* **publication of student magazines**

Students publish a souvenir after every technical function (CIENCIA) each year. College extends financial support.

- * News letter is published twice a year. It covers achievements, participation in conferences, awards and prizes and list of prize winners of students.

5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defence Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?

Yes, College is providing separate Comprehensive coaching classes for various aspects that caters to the future needs of above services. Following aspects are covered in particular

- * Quantitative Aptitudes
- * Verbal Skills
- * Reasoning
- * Personality Development
- * Introduction to IT Major Companies
- * Interview Skills (Mock Interviews).
- * Group discussions.

Many students take GATE examination. About 12 to 15 students take up M.Tech Programme based on GATE. One student of CSE of 2009 batch got 4th Rank and he took admission in IISc, Bangalore and it is noticed that he is continuing for Ph.D.

5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

* **Additional academic support**

The sports students are assigned particular teachers to help them approach the concerned subject teachers for special help when they lose academic classes when attending sports competitions at out of stations.

- * **Flexibility in examinations:** 'Substitution test' is held at the end of each semester to give an opportunity to students to write internal exam, if they missed the scheduled internal exams for any reasons such as sports participation taking advance permission.

* **Special dietary requirements, sports uniform and materials**

Sports uniform is maintained individually for each department with separate colours and logos. All kinds of materials are maintained for the sports like cricket kits, cricket balls, volley ball, badminton, chess, table tennis, caroms and snooker.

* **any other**

Apart from the academic activities College additionally support students by giving them allowances and fares for attending sports competitions, paper presentations and workshops.

College has four Physical Directors to monitor on extracurricular activities.

Every year sports and games competitions are organized for college day function. There are many prizes and shields for boys and girls including teachers.

5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

We have a Career Counseling and Placement cell to help students aspire for their careers. The Cell gives students Placement Orientation in the beginning of 3 – II Semester to help them understand the industry and market requirements. It gives them

all the information required and the parameters considered by the industry before hand to prepare accordingly.

The Placement Cell provides

- Guest Lecture's
- Leadership talks
- Soft skills Training
- Quant Aptitude Training
- Technical Training
- Infosys Campus Connect Training
- Infosys Campus Connect Certifications
- Conduct Competitions of various companies like Deloitte, Infosys, TCS
- Industry bodies Memberships with
 - a. NHRD Lifetime
 - b. CII Membership
 - c. NASSCOM Membership

The Placement Cell orient's them about Core, IT Industry, GATE & CAT Exams, GRE, TOFEL and IELTS, AMCAT Exams and various other competitive Exams. It ensures communication to every student every week of various events happening in other colleges, IIT, NIT's. It also share links of previous year placement papers to help student prepare before Campus hiring of each company.

- * Campus Recruitment Training- It has built ample modern infrastructure and personnel to cater to the training and placement requirements of students.
- * Training on Soft Skills – 'LEARNING CURVE' is our training partner and they train the students for the Campus recruitments along with our in "house training faculty".
- * The College has Entrepreneurship Development cell Sponsored by AICTE .Awareness camps are conducted every year for students on Entrepreneurship.
- * 'INFOSYS CAMPUS CONNECT FOUNDATION PROGRAM' & SOFT SKILLS PROGRAM: Our students have the facility to be certified by INFOSYS CAMPUS CONNECT, an industry-academia initiative. This training is to bridge the gap between the corporate and academia and help students understand the real time issues of the industry. Infosys Foundation Program was rolled out to the students by the CSE/IT Department of the college (in house faculty – trained at Infosys under the Faculty Development Program) to improve their technical skills while the soft skills program was rolled out by Infosys to enhance the student's soft skills.
- * Aspiring Minds - AMCAT: An aptitude test by AMCAT is conducted which helps the students to get entry level jobs in various sectors.
- * TASK: TASK is an innovative and pioneering initiative by State Govt, that attracts the best students from all over the state, providing them with a world class infrastructure and opportunities to apply their knowledge to the challenging problems. In 2009, College received award from the Chief Minister of State as "College of Maximum Placements by TASK(formerly JKC)".
- * Two Photos printed below show the placement floor having 20 interviewing cubicles and group discussion halls. One Photo shows student waiting for Interview another photo is students in Conference Room of placement cell.



5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

Placements for the year (2010-11, 2011-12, 2012-13, 2013-14) 344 students were selected (2013-14)

PLACEMENTS FOR THE YEAR 2010-11									
S.No.	Company Wise	Branch							Total
		EEE	ECE	CSE	IT	EIE	MCA	MBA	
1	TCS	10	42	28	17	9	1	0	107
2	Persistent	0	1	8	4	0	0	0	13
3	Kasura	0	1	0	0	0	0	0	1
4	Singularity	0	2	1	0	0	0	0	3
5	Syntel	3	10	11	9	0	0	0	33
6	Robert Bosch	0	10	3	2	1	0	0	16
7	Mphasis	9	10	13	8	11	1	0	52
8	CA	0	0	2	0	0	0	0	2
9	NETDOT Orange	0	0	0	3	0	0	0	3
10	Nebulogic	0	0	0	2	0	0	0	2
11	INFOTECH	0	4	0	0	0	0	0	4
12	Convergys	0	1	3	0	0	0	0	4
13	Infosys	7	16	22	8	2	0	0	55
14	Soham Online	0	0	1	1	0	0	0	2
15	Tally Solutions	0	0	1	0	0	0	0	1
16	HCL Comnet	2	0	2	2	3	0	0	9
17	Mahindra Satyam	3	1	3	1	1	0	0	9
18	Intergraph	0	0	0	0	2	0	0	2
19	Kantar Operations	0	0	1	1	0	0	0	2
20	Kasura Technologies	0	0	1	0	0	0	0	1
21	ADP	0	0	4	0	0	0	0	4
22	ZENQA	0	3	0	1	0	0	0	4
23	ICCI	0	0	0	0	0	0	5	5
24	Apalya Technologies	0	0	1	0	0	0	0	1
TOTAL		34	101	105	59	29	2	5	335

COMPANY WISE RECRUITMENT DETAILS 2011-12

SL NO	Company Name	EEE	ECE	EIE	CSE	IT	MCA	MBA	M.Tech	TOTAL
1	ADP	1	2		2	3	0	0	0	8
2	Aspiring Minds							1		1
3	CA					1				1
4	Dridha Technologies				1					1
5	Infosys	18	35	11	20	26			1	111
6	Intel	1								1
7	L&T	4	7	1					1	13
8	Mphasis	12	21	5	15	9			1	63
9	Oracle	3	4	2	7	12				28
10	Persistent		1		4	3				8
11	Robert Bosh	2	9							11
12	Syntel	5	2	3	5	3	1			19
13	Soham Online					2				2
14	Tally Solutions					1				1
15	Broadridge							1		1
16	SAP Labs				1					1
17	CMC Ltd.				2					2
18	HCL Comnet			1	1					2
19	Electrolab	1								1
20	Opentext		2		5	2				9
21	NebuLogic	1	1		1	1				4
22	Sears Holdings	0	1	0	0	0	0	0	0	1
23	AMAZON			6	4	4				14
24	P M DIMENSIONS			1						1
25	IBM	1				2				3
26	NTPC	1								1
27	ACCENTURE	2	2	1						5
28	TeraData		1		2	2				5
29	AMD								1	1
30	Power Deal	0	0	1	0	0	0	0	0	1
31	Capgemini	1	1	0	1	0	0	0	0	3
Total		53	89	32	71	71	1	2	4	323

COMPANY WISE RECRUITMENT DETAILS 2012-13

S. No.	Company Name	EEE	ECE	EIE	CSE	IT	M.Tech	TOTAL
1	PERSISTENT	0	0	0	2	1	0	3
2	ADP	2	2	1	1	2	0	8
3	TCS	5	3	4	3	2	1	18
4	VIRTUSA	1	2	0	5	6	0	14

5	CA	0	0	0	1	1	0	2
6	CommScope	1	2	1	1	1	0	6
7	Polycom	0	0	0	2	4	0	6
8	NTT Data	1	3	7	5	3	0	19
9	Deloitte	0	0	0	0	1	0	1
10	Apps Associate	0	0	0	0	2	0	2
11	RubyEffect	0	0	0	1	1	0	2
12	SAP	0	0	0	0	2	0	2
13	OpenText	5	7	0	6	1	0	19
14	Soham Online	0	0	0	1	0	0	1
15	Videocon DTH	2	0	0	0	0	0	2
16	Content Era	0	0	0	1	0	0	1
17	Vistex Asia-Pacific Private Ltd	0	0	0	0	1	0	1
18	Amazon	0	1	0	1	2	0	4
19	Teleservices International	0	0	1	0	0	0	1
20	CodeMyMobile	0	0	0	1	0	0	1
21	Invesco	0	0	0	0	1	0	1
22	AGS	0	0	0	3	0	0	3
23	GlobalLogic Technologies Pvt. Ltd.	0	0	0	1	0	0	1
24	RealPage	0	0	0	0	1	0	1
25	TechMahindra	2	4	1	1	2	0	10
26	Teradata	0	0	0	0	3	0	3
27	IBM	1	2	0	0	0	0	3
28	Global Knowledge Network (India) Pvt Ltd	1	2	0	1	1	0	5
29	Cognizant	4	12	1	5	5	0	27
30	Syntel	0	0	0	0	1	0	1
31	Accenture	4	4	1	1	4	0	14
32	NebuLocic	0	0	0	1	0	0	1
33	Systech	0	0	0	1	0	0	1
34	HAL	1	0	0	0	0	0	1
35	CAPGEMINI	1	1	0	1	0	0	3
36	HP	1	0	0	0	0	0	1

37	Infosys	0	2	0	0	0	0	2
38	Robert Bosch	0	1	0	0	0	0	1
39	Cadence	1	1	0	0	0	0	2
	TOTAL	33	49	17	46	48	1	194

COMPANY WISE RECRUITMENT DETAILS 2013-14

S. No.	Company Name	EEE	ECE	EIE	CSE	IT	Mech	M.Tech	TOTAL
1	Deloitte	4	2	0	2	2	0	NA	10
2	TCS	4	9	7	8	5	0	1	34
3	Virtusa	2	13	0	13	7	0	NA	35
4	Persistent	0	0	0	6	0	0	NA	6
5	Capgemini	5	2	1	2	7	0	NA	17
6	ADP	0	2	0	1	2	0	NA	5
7	Net.Orange	0	0	0	2	0	0	NA	2
8	Mphasis	0	5	0	7	2	0	NA	14
9	AMAZON	3	0	2	0	0	0	NA	5
10	NTT Data	1	5	2	2	0	0	NA	10
11	Tech Mahindra	7	13	2	7	9	0	NA	38
12	HP Dev.	0	1	0	2	4	0	NA	7
13	SAP Labs	0	2	0	0	1	0	NA	3
14	AT&T	0	0	0	0	0	0	2	2
15	HSBC Dev	1	0	0	5	1	0	0	7
16	AMAZON Dev.	0	0	0	2	0	0	0	2
17	GGK Technologies	0	5	1	1	0	0	0	7
18	KONY	0	0	0	1	1	0	NA	2
19	Learn Social	0	0	0	2	0	0	0	2
20	AM Signalling	2	0	0	0	0	0	0	2
21	Infosys	5	7	9	10	5	1	0	37
22	135 Techlabs	0	0	0	1	0	0	0	1
23	Crypsis	0	0	0	5	0	0	0	5
24	Commscope	1	2	0	1	1	0	0	4
25	HCL Comnet	0	1	0	4	1	0	0	6
26	CTS	4	6	2	6	1	0	0	22
27	PWC	4	2	0	2	1	0	0	9
28	MicroPyramid	0	0	0	1	0	0	0	1
29	OpenText	0	0	0	1	1	0	0	2
30	GlobalEdge	0	0	0	1	1	0	0	2
31	CSC	0	5	0	0	1	0	0	6
32	High Radius Technologies	0	0	1	2	0	0	0	3
33	Contentera	0	1	1	1	0	0	0	3
34	ATMECS Technologies	0	0	0	1	1	0	0	2
35	TIBCO	0	0	0	2	2	0	0	4

36	ZENQ	0	0	0	1	0	0	0	1
37	HCL Technology	0	1	0	2	0	0	0	3
38	Magnaquest	0	0	0	1	0	0	0	1
39	ACCENTURE	0	0	1	2	2	0	0	18
40	Syntel	0	0	0	2	0	0	0	2
41	Broadcom								2
	Total	43	84	29	109	58	1	3	344

Company Wise Recruitment Details 2014-15

S. No.	Company Name	EEE	ECE	EIE	CSE	IT	Mech	Civil	M.Tech	TOTAL
1	Deloitte	2	1	0	9	3	0	0	0	15
2	TCS	23	57	9	41	33	5	3	4	175
3	VIRTUSA	0	0	0	7	4	0	0	0	11
4	Capgemini	4	8	4	6	4	0	0	0	26
5	HSBC Dev	0	1	0	2	2	1	0	0	6
6	GGK Technologies	1	6	0	2	4	0	0	0	13
7	ADP	0	2	0	2	1	0	0	0	5
8	Mphasis	0	7	0	7	5	0	0	0	19
9	Mu-Sigma	2	4	0	0	1	0	1	0	8
10	Persistent	0	0	0	2	0	0	0	0	2
11	BroadCom	0	3	0	1	0	0	0	0	4
12	Pramati Technologies	0	0	0	1	1	0	0	0	2
13	Teradata	0	0	0	1	0	0	0	0	1
14	Acce IQ	0	0	0	1	0	0	0	0	1
15	Net.Orange	0	3	0	0	0	0	0	0	3
16	CA	0	0	0	2	0	0	0	0	2
17	Mindtree	0	2	1	0	0	0	0	0	3
18	IBM Dev	6	8	2	0	2	0	2	1	21
19	NTT Data	1	3	2	3	1	1	0	0	11
20	NebuLogic	0	2	0	0	0	0	1	0	3
21	GlobalEdge	2	4	0	1	0	0	0	0	7
22	HCL	0	1	0	0	0	0	0	0	1
23	Amazon Dev	0	0	0	4	1	0	0	0	5
24	MAQ Software	0	0	0	1	0	0	0	0	1
25	Cyient	0	2	0	4	0	3	0	0	9
26	Kony Labs	0	0	0	1	1	0	0	0	2
27	Contenterra	0	0	0	1	2	0	0	0	3
28	CSC	3	2	3	8	1	0	0	0	17
29	Polaris	0	8	0	1	0	0	0	0	9
30	Amazon	3	1	0	2	1	0	0	0	7
31	Polycom	0	0	0	1	1	0	0	0	2
32	Intel	0	0	0	0	0	0	0	1	1
33	Verizon	0	2	0	1	0	0	0	0	3

34	NPCI	0	0	0	5	0	0	0	1	6
35	CommScope	0	1	0	0	0	0	0	0	1
36	HP	0	0	1	0	0	0	0	0	1
37	AM Signalling	1	3	0	0	0	0	0	0	4
38	Cadence	1	0	0	0	0	0	0	0	1
39	Unisys	0	0	0	1	0	0	0	0	1
40	Value Labs	0	1	0	0	0	0	0	0	1
41	MOLD-TEK Technologies Limited	0	0	0	0	0	0	0	1	1
42	Hyundai R & D	0	1	0	0	0	0	0	0	1
43	MetricStream	0	1	0	0	0	0	0	0	1
44	Wipro	0	0	0	2	0	0	0	0	2
45	Amazon	0	0	0	2	0	0	0	0	2
46	Keolis	2	1	0	0	0	0	0	0	3
47	Voonik	1	0	0	2	0	0	0	0	3
48	L&T	2	0	0	0	1	0	0	0	3
49	Syntel	1	0	0	0	0	0	0	0	1
	Total	55	135	22	124	69	10	7	8	430

Company Wise Recruitment Details 2015-16(ON GOING)

S. No.	Company Name	EE E	EC E	EI E	CS E	IT	Mech	Civil	M.Tech	TOTAL
1	Virtusa	0	0	0	16	15	0	0	0	31
2	Mu-Sigma	0	2	2	0	1	0	0	0	5
3	Deloitte	3	5	1	1	1	0	0	0	11
4	TCS	31	51	11	58	33	10	0	7	201
5	TEK Systems	0	0	0	2	2	0	0	0	4
6	Capgemini	4	12	1	8	2	3	1	1	32
7	Securifi Embedded System	0	0	0	2	2	0	0	0	4
8	ADP	0	4	0	1	3	0	0	0	8
9	Mphasis	0	2	0	0	0	0	0	0	2
10	Kony Labs	0	0	0	7	2	0	0	0	9
11	UNISYS	0	3	0	7	0	0	0	0	10
12	GGK Technologies	0	1	0	1	0	0	0	0	2
13	NTT DATA	1	2	0	1	0	0	0	0	4
14	Pramathi Technologies	0	0	0	1	0	0	0	0	1
15	Global Edge	2	10	0	2	0	0	0	0	14
16	Unistring Tech Solutions	0	0	0	0	0	0	0	1	1
17	Amazon (TRMS/CS)	1	5	4	4	1	0	2	0	17
18	SAP Labs	0	1	0	1	0	0	0	0	2
19	MindTree	0	18	0	4	4	0	0	0	26
20	Visiontek	0	0	0	0	0	0	0	4	4
21	AMAZON Dev	0	0	0	2	1	0	0	0	3

22	PERSISTENT	0	0	0	3	1	0	0	0	4
23	Mphasis	0	4	0	3	0	0	0	0	7
24	YODLEE	0	0	0	0	1	0	0	0	1
25	CA TECHNOLOGIES	0	0	0	1	0	0	0	0	1
26	HP ENTERPRISE	1	13	2	5	5	0	0	0	26
27	POLARIS	0	8	0	1	0	0	0	0	9
28	COMMSCOPE	0	3	0	0	1	0	0	0	4
29	Think3D	0	0	0	0	0	1	0	0	1
30	COGNIZANT	0	9	2	3	2	0	0	0	16
31	CONTENTERRA	0	0	0	0	1	0	0	0	1
31	OSI Technologies	1	0	0	1	1	0	0	0	3
32	NPCI	0	0	0	4	3	0	0	1	8
33	Rubicon Red	0	2	0	1	0	0	0	0	3
	TOTAL	44	15	23	14	8	14	3	14	475

5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?

Yes, the College has an Alumni association. It meets yearly twice. The Principal is the Patron.

Activities & contributions

- * Soft Skills Training
- * Pre Placement Talks
- * Guest Lectures
- * Response of Alumni for various emails given by Heads for developmental activities.

ALUMNI FEEDBACK FORM ESSENTIAL DETAILS

Alumni Name	Routray Jajati Keshari (10B81A0225)
Father's Name	Routrary Aditya Narayan
Date of Birth (DD/MM/YY)	21/05/1993
Year of Passing out & Branch	2014, EEE
Permanent Address	H.No.1-5-982/1/2, Plot N.314, Citizen Colony, Old Alwal, Secunderabad, Telangana-10
Contact No.	+91 7416634112
E-Mail ID	jajatikr7@gmail.com
Present Organization	Deloitte
Designation	Business Technology Analyst

Kindly select the appropriate option as per the following criteria

A - Highly Efficient B - Efficient C – Satisfactory D - Below Satisfaction

I. FEEDBACK ABOUT COLLEGE (Point No.1to 5)

Do you feel proud to be associated with CVR as Alumni? Yes

1. How do you rate development activities organized by the College for your overall I development? A ☐ B ☐ C ☐ D ☐ - D
2. Are you willing to contribute to the development of the college? Yes
3. Were /Are your grievances properly handled at the college?
(a) As a student Yes (b) As an alumni N/A
5. Rate the adequacy of following as they were during your tenure as a student at CVR:
 - Laboratories & Equipments C
 - Library B
 - Computer Facilities B
 - Internet & Wi-Fi D
 - R&D Projects D

II. FEEDBACK ABOUT DEPARTMENT & FACULTY (Point No. 6 to 9)

6. Have you obtained sufficient technical know-how (both in theory & practice) at CVR? No
7. Is the education imparted at CVR useful and relevant in your present job?
N/A
8. Were the HOD's & Faculties cooperative? Yes
9. Rate the following academic initiatives taken by the college to improve technical know-how of the students.
 - Industry Oriented Projects B
 - Seminars & Workshop B
 - Online Examinations D
 - Special Training Classes for bridging Industry Academic gap : N/A

III. FEEDBACK ABOUT TRAINING & PLACEMENT CELL (Point No. 10 to 16)

10. Has the T&P Cell provided ample On campus placement opportunities? Yes – But only to computer Companies.
11. Has the T&P Cell provided sufficient Off campus placement opportunities? Yes
12. Have you availed Career counseling and guidance for higher studies from T&P Cell? N/A
13. If you are invited to deliver A Guest Lecture/ A Special Talk /A Motivational Session for your juniors, will you be interested? Yes
14. Do you like to join the college Alumni Association? Yes
15. Have you participated in any Alumni meet as of now? No
16. Do you receive regular updates from the college through Mails/ Calls/ SMS etc? Yes

IV. GENERALIZED EXPERIENCE SHARING (Point No. 17 to 20)

17. Have you ever been appreciated by your Company. If yes, please share details

None

- Faculty. If yes, please share details – Praised by Faculty for studies and final year seminar on 3D Printing Technology.
-

Peers. If yes, please share details- Praised for information gathering skills on projects worked.

18. Have you made any significant achievement as:

- A student of CVR. If yes, please share details- Was finalist at ‘StudentCompetitions’ scholarship program - Only student from JNTU
-

An Employee of your organization. If yes, please share details- None

19. Most Memorable Moment in the college.

Time spent with friends and making electronic projects on our own.

20. Suggestion for improvements

- Department- Electrical and Electronics Engineering – Please provide information through sessions regarding internship opportunities in private firms and how they come to hire someone after internship.
-
- College- Provide comfortable buses travelling to faraway places, provide more freedom on campus.
-

SIGNATURE

DATE

JAJATI KESHARI ROUTRAY

24/12/2014

NOTE: The feedback forms received are under the possession of the principal.

5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

Yes. The College has Grievance Redressal committee under the chairmanship of the Vice Principal and committee is constitute of one member from each department. The committee will see to it that the complaints from the students are resolved very proactively. The nature of the complaints like extending the bus facility to the required routes, increasing the number of buses, increasing number of books (copies) as per the requirement of students, extending Canteen facilities, Sports facilities etc are promptly attended and resolved. Management of the College is proactive and therefore resolving such issues is easier. The committee takes voluntary counseling of students periodically to resolve various un-noticed issues in respect of college campus aspects like canteen facility and hostel facility .Students are encouraged to share their personal views on all the problems that they are facing during their academics in the campus and the committee resolves the issues as early as possible.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

Yes, The College has “Women protection cell” which will look after the issues of women alone. The Cell will interact with women student representative very frequently to identify any of the sexual harassments that may happen. As of now there were no such incidents that were needed to be handled. If any such minor incidents are identified by the Cell, then there will be disciplinary action against the offenders who violated the decency.

The Women protection Cell deals such cases very confidentially to preserve the self-respect of women students. It was constituted as per guidelines issued by UGC and affiliating University. Recent Circular of University is to constitute, if not done already, and to send copies to UGC, State Govt. and University. It was done by the college.

Gender Sensitisation Subject Introduced at IInd Year IInd Semester.Two Credits are awarded For the subject.

5.1.16 Is there is an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, The College has anti-ragging Committee. The Committee consists of faculty and students from different departments to prevent and register cases of ragging in college, headed by a senior professor by close monitoring and intensive surveillance of the campus, class rooms, buses, hostel & cafeteria by the anti-ragging committee, instances of ragging have been prevented before they took place.

The anti-ragging Committee Constitution of 2015-16 is presented here under. Further, anti-ragging Squads are also constituted at department level, to monitor day to day tendency.

<u>ANTI RAGGING COMMITTEE</u>			
1	Prof. Wg.Cdr.Varghese Thattil	Professor & Head, ECE Dept.& Chairperson	
2	Dr. S.Venkateshwarlu	Professor & Head, EEE Dept.	
3	Prof.U.V.Ramana Sarma	Prof. in IT Dept.	
4	Prof.T.Esther Rani	Professor in ECE Dept. CoE & Prof.in H&S dept.	
5	Prof.P.Veeresham		
6	Mr. K. Venkateswara Rao	Prof. in CSE Dept.	
7	Mr. C.V.S. Satyamurthy	Assoc. Prof. in CSE Dept.	
8	Mr. M. Raghava	Assoc. Prof. in CSE Dept.	
9	Mrs. G. Sree Lakshmi	Assoc. Prof. in EEE Dept.	
10	Mr. Dr.D. Shankaraiah	Assoc. Prof. in Mathematics.	
11	Mr. G. Sharath Kumar Reddy.	Physical Director	
12	Mr. A. Amarender Reddy	Asst.Physical Director	
13	Mr. D.Archith Reddy	14B81A0112	Student Representative – Civil
14	Ms. A.Sowmya	14B81A1043	Student Representative – EIE
15	Ms. K.Pragnya	14B81A04A8	Student Representative – ECE
16	Mr.CH.Prabhakar	14B81A0259	Student Representative – EEE
17	Mr. T.Harshith	14B81A1225	Student Representative – IT
18	Ms.T.Anusha	14B81A0325	Student Representative – ME
19	Mr. Anil Kumar	14B81A0521	Student Representative – CSE

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation, etc.?

Alumni: Alumni meet is arranged at least twice a year. Interaction with Alumni will be mostly on curriculum, new technologies, academic advice they can offer for growth of departments. Some of alumni when they visit the college are requested to address the students.

Parents: Parents are essential as they are concerned about their wards performance.

Parents meet is arranged at the admission time called orientation programme. They discuss about the facilities in college, job/ Placement activities. Some of them, in professional line offer valuable advices. Another occasion is Graduation day, which is almost like exit meeting. By that time, parents are fully aware of college and offer their own experience of their wards study in college.

Further, the college has a practice of communicating the attendance, internal marks, irregularity of attendance etc.

Students: Students are active in giving suggestions, particularly when they come to 3rd and 4th year. Feed back is collected twice in semester. Their close interaction with Placement Cell, Physical Directors, Library staff gives lot of inputs.

Industry: Industry personnel are in all Statutory Boards.

- Guest Lectures are organized by every department
- Industry visits by students
- Experts as examiners for projects
- Invited speakers for conferences held at college and in competitions like CIENCIA there is scope of eliciting advice.
- Introduced Employer Feedback
-

Employer Feed Back

Important Instructions:
Please tell us about the candidates selected by your esteemed organization. Your feedback will play an important role in developing the quality of our students and strengthening our curriculum. In this questionnaire, the term Candidate refers to selected student of CVR College of Engineering. Provide one response to each item on the form. Complete using a black or blue pen. Place a clear 'X' inside each box. Leave the box blank if the statement does not apply. If you want to change your answer, fill in the entire box and mark the correct box.

Name of the Candidate: P. Mallikarjuna Roll No.: 11B81A0236
 Designation of Candidate: Assistant System Engineer
 Name of the Company: TCS Joining Date: 15th June 2015

Ratings of the Candidate in following parameters:

S. No.	Description	Excellent	Good	Satisfactory	Bad
1	Communication Skills		✓		
2	Team Building / Team work		✓		
3	Professional Ethics	✓			
4	Human Values	✓			
5	Professional Ownership		✓		
6	Knowledge relevant to Job Role		✓		
7	Problem Solving & Designing skills		✓		

What aspect do you want to see Improvement in?
Need to improve the confidence level so that it will help in achieving good results

What is the Best Aspect of CVR College and Student?
Responsible & feeling responsible

Name of the Employer providing Feedback: Secta Kanak IT
 Designation of the Employer: AST Signature: [Signature]

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?

-The College conducts sports competitions for all students in the college. Prizes are awarded for the best teams in all sports events. College annual day is celebrated every year during which sports competitions are held to the students to induce a sporting spirit in them. Majority of students take active participation in both indoor and outdoor games. Best sports teams from the College are encouraged to participate in inter-college sports competitions and national level competitions

during which they will be provided with TA and entire expenses during the visits.

-The college also has regular NSS Cell which conducts programs in the neighboring villages.

-Students take active part in making working models and present them in exhibitions that are conducted during Department and college level technical fests and best models are rewarded.

-Literary and cultural club of the college conducts Literary and cultural events every year during College Day, Fresher's Day and Traditional Day celebrations.

5.1.19 How does the College ensure participation of women in 'intra' and 'inter' institutional sports competitions and cultural activities? Provide details of sports and cultural activities in which such efforts were made?

The College ensures participation of women in various sports like Throw Ball, Chess, Badminton, Caroms and Table tennis etc. Prizes are given for best participants in college day function .Annual women's day is conducted by inviting few distinguished women from society to deliver advises.

As a part of cultural activities, women participate in Traditional day, Fresher's day and College day which are conducted every year.

5.2 Student Progression

5.2.1 Provide details of programme-wise success rate of the College for the last four years.

How does the College compare itself with the performance of other autonomous Colleges / universities (if available)

Yes, we have an autonomous exam department which works independently and is responsible for performing result analysis as well. CVR has the highest pass percentage among 350+ colleges in under JNTU, Hyderabad and has been displaying excellent pass percentage consistently across the years. JNTUH has recently stopped posting the results of individual colleges after 2010 exams.

Academic Performance of the students admitted in

AY's 2013-14 (1st Yr) 2012-13 (2nd yr), 2011-12 (3rd yr), 2010-11 (4th yr) (wherever applicable)

ACADEMIC PERFORMANCE DURING THE YEAR 2014-15													
UG: B.Tech.		Students admitted in 2014-15 First Year			Students admitted in 2013-14 Second Year			Students admitted in 2012-13 Third Year			Students admitted in 2011-12 Fourth Year		
No	Name of Degree with Specialization	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed
1	CE	120	69	58	120	78	65	59	45	76	56	47	84
2	EEE	118	87	74	120	99	83	114	97	85	119	100	84
3	ME	240	151	63	120	104	87	55	49	89	59	52	88
4	ECE	240	191	80	237	200	84	242	193	80	178	155	87
5	CSE	300	214	71	238	186	78	177	144	81	113	97	86

6	EIE	60	38	63	52	34	65	54	36	67	56	48	86
7	IT	122	77	58	116	67	58	100	82	82	113	83	73
	TOTAL	1200	827	467	1003	768	77	801	646	81	694	582	84
Pass % Year wise UG		Pass% Yr wise UG: 68			Pass% Yr wise UG: 77			Pass% Yr Wise UG:81			Pass % UG : 84		

ACADEMIC PERFORMANCE DURING THE YEAR 2013-14													
UG: B.Tech.		Students admitted in 2013-14 First Year			Students admitted in 2012-13 Second Year			Students admitted in 2011-12 Third Year			Students admitted in 2010-11 Fourth Year		
S. No	Name of Degree with Specialization	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed	*Number of students Appeared	*Number of students Passed (Cleared all subjects)	% Passed
1	CE	120	78	65	59	45	76	56	47	84	0	0	0
2	EEE	120	99	83	114	97	85	119	100	84	119	111	93
3	ME	120	104	87	55	49	89	59	52	88	17	17	100
4	ECE	237	200	84	242	193	80	178	155	87	141	133	94
5	CSE	238	186	78	177	144	81	113	97	86	124	111	90
6	EIE	52	34	65	54	36	67	56	48	86	59	54	92
7	IT	116	67	58	100	82	82	113	83	73	112	104	93
	TOTAL	1003	768	77	801	646	81	694	582	84	572	530	93
Pass % Year wise UG		Pass% Yr wise UG:77			Pass% Yr wise UG: 81			Pass% Yr Wise UG:84			Pass % UG : 93		

CE-Civil Engg, EEE-Electrical & Electronics Engg, ME-Mechanical Engg, IT-Information Technology.

Academic Performance of the students admitted in AY's 2012-13 (1st Yr) 2011-12 (2nd yr), 2010-11 (3rd yr), 2009-10 (4th yr) (Wherever applicable)

ACADEMIC PERFORMANCE DURING THE YEAR 2012-13													
UG: B.Tech.		Students admitted in 2012-13 First Year			Students admitted in 2011-12 Second Year			Students admitted in 2010-11 Third Year			Students admitted in 2009-10 Fourth Year		
S · N o	Name of Degr e with Speci alizi ati on	*Nu mbe r of stud ents App eare d	*Num ber of stud ents Passed (Clear ed all subjec ts)	% Pas sed	*Nu mbe r of stud ents App eare d	*Num ber of stud ents Passed (Clear ed all subjec ts)	% Pas sed	*Nu mbe r of stude nts Appe ared	*Num ber of stud ents Passe d(Cle ared all subjec ts)	% Pas sed	*N um ber of stu de nts Ap pea red	*Num ber of stud ents Passed (Clear ed all subjec ts)	% P as se d
1	CIV	60	35	58	57	37	65	0	0	0	0	0	0
2	EEE	118	87	74	120	104	87	119	84	71	119	103	87
3	MEC H	60	32	53	60	39	65	0	0	0	0	0	0
4	ECE	240	194	81	179	143	80	121	89	74	122	122	100
5	CSE	180	120	67	114	90	79	124	94	76	115	108	94
6	EIE	56	26	46	58	37	64	59	40	68	60	55	92
7	IT	111	77	69	115	81	70	114	89	78	116	113	97
	TOT AL	825	571	69	703	531	76	537	396	74	532	501	94
Pass %		Pass% UG : 69			Pass % UG : 76			Pass % UG : 74			Pass % UG : 94		
ACADEMIC PERFORMANCE DURING THE YEAR 2011-12													
Bran ch	I YEAR			II YEAR			III YEAR			IV YEAR			
	Stude nts Appea red	Stude nts Passe d	Pass %	Stude nts Appe ared	Stude nts Passe d	Pas s %	Stude nts Appe ared	Stude nts Passe d	Pas s %	Student s Appea red	Stud ents Pass ed	P as s %	
EEE	120	98	82	119	94	79	119	95	80	125	114	91	
ECE	179	155	87	122	104	85	124	116	94	124	115	93	
CSE	117	90	77	122	101	83	116	101	87	121	111	92	

IT	118	83	70	117	89	76	114	86	75	119	109	92
EIE	59	31	53	59	44	75	61	50	82	60	55	92
CE	60	35	58	0	0	0	0	0	0	0	0	0
Pass % Yr Wise	653	492	427	539	432	398	534	448	418	549	504	460

ACADEMIC PERFORMANCE DURING THE YEAR 2010-11												
Branch	I YEAR			II YEAR			III YEAR			IV YEAR		
	Students Appeared	Students Passed	Pass %	Students Appeared	Students Passed	Pass %	Students Appeared	Students Passed	Pass %	Students Appeared	Students Passed	Pass %
EEE	120	78	65	121	98	81	125	76	61	62	44	71
ECE	120	92	77	122	101	83	125	108	86	130	117	90
CSE	120	79	66	116	93	80	121	99	82	129	118	91
IT	117	72	62	115	68	59	120	86	72	72	64	89
EIE	59	29	49	61	45	74	59	30	51	58	54	93
CIV	0	0	0	0	0	0	0	0	0	0	0	0
MECH	0	0	0	0	0	0	0	0	0	0	0	0
Pass % Yr Wise	536	350	319	535	405	377	550	399	352	451	397	434

5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

	Total Students	UG to PG	PG to M.Phil	PG to Phd.	Campus Placements
2014-15	1200	209	N/A	0	429
2013-14	590	*169	N/A	3	344
2012-13	571	235	N/A	0	194
2011-12	576	80	N/A	0	323
2010-11	473	101	N/A	0	335

The number of students taking to Higher Education is significantly increasing from year to year at CVR. This is indicative of the efforts put in by teachers and career counseling sessions organized for the third year students of Undergraduate courses. The need of the society in today's modern and complex world is that of specialized skilled managers wherein minimum educational qualification required is a post graduate degree. Hence students are encouraged to pursue further studies. Soft skills training in the form of Graduate Grooming programme is also provided to the Third Year students of all the UG courses.

The institution facilitate student progression to higher level of education and/or towards employment through various kind of activities such as

1. The Subject Specialization Seminar: These seminars are a great help in career counseling for the post graduate students. They help them in choosing the special subject. The seminar is addressed by different Heads of the Department who during their interaction with the students inform them with regard to the nature and career prospects of the special subject. Apart from this activity, extra Guest Lectures, Workshops are also arranged as an additional input.
2. Aptitude & soft skill Sessions: The College has been imparting campus recruitment classes, for student performance improvement. The areas covered under these are Verbal Ability/Language Skills, Communication Skill, Presentations Skill, Logical aptitude and Verbal reasoning along with syllabus designed by Infosys Campus Connect Program.
3. Placement Cell: We have full time Placement officer. Placement officer conducts pre-placements talks to students and motivates them towards enhancing their employability skills. In these sessions Placement officer and other industry experts share their pre-placements views with the students and in the next sessions, they conduct grading tests, technology wise, and then Students are informed about their performance in the test which reveals their strengths, weaknesses and their actual areas of interests. The students have found both the aptitude testing and career counseling very useful.
4. Career Guidance: The institute also assists students for their career guidance and placement. The college has a well organized career guidance, training and placement cell, which has organized many campus interviews for the students and many reputed organizations like TCS, ITC Infotech, Capgemini, Wipro and IBM have recruited a large number of students from this college. A good numbers of students are working in the government sector. The Career guidance helped them to choose appropriate and suitable careers.

5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

Drop Out Rate

Sno.	Year	Intake	# Drop Outs	Drop out %	Average Successful Completion
1	2014-15	1200	2	0.1	99.8%
2	2013-14	1020	2	0.1	88%
3	2012-13	840	3	0.3	94%
4	2011-12	720	9	1.25	91%
5	2010-11	540	6	1.2	92%

The dropout rate is less than 1.5 %. The drop out is mainly due to their own economic and family related problems. The drop out indicates those students who have discontinued their study forever. The dropout rate is controlled by means of scholarships, offered by the management and counseling by Doctors and Psychiatrists. In addition to this, the following efforts are taken by the college in order to facilitate the students to complete the course.

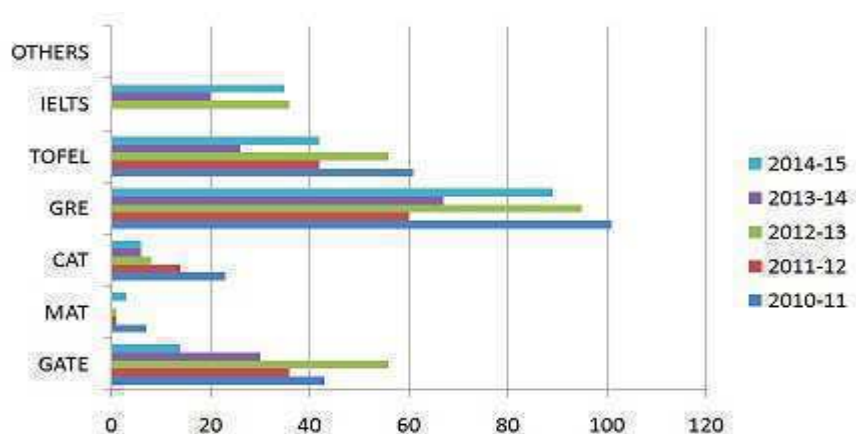
- Concession in fees and provision to pay the fees in installments for needy students.
- Hostel facilities for girls and boys at concessional rates. Book Bank facility to needy students.
- Student Counseling.
- Arrangement of educational loans for needy students and fee concession based on a College Committee report after meeting the parents.
- Periodic interaction of Parent-Teacher.
- For slow learners remedial classes are conducted.
- Tutorial classes are made part of the regular time-table for the analytical subjects in UG programmes wherever there is scope.
- Special classes after regular college hours are conducted in those subjects where some students are not able to cope with.

5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

Yes, the number of students qualifying for the various competitive exams is significantly increasing. An encouraging trend has been observed.

Year/ Exam	GAT E	MA T	CA T	GR E	TOF EL	IEL TS	Othe rs	% of Studen ts Appear ed	% of Studen ts Qualifi ed	Qualifie d# of Student s	Total Stude nts
2014-15	14	3	6	89	42	35	20	17.41	17.41	209	1200
2013-14	30	0	6	67	26	20	20	30	28.6	169	590
2012-13	56	1	8	95	56	36		45.24	45.24	252	557
2011-12	36	1	14	60	42	0		44	44	253	575
2010-11	43	7	23	101	61	0		49.68	49.68	235	473

Observed Trends in # of Qualifying Students in various Competitive Exams



5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.

The information about students who have submitted their Ph.D thesis is not known as yet.

However, faculty of the college has been working for Ph.D with the encouragement given by Management.

- 14 Faculty have obtained a Ph.D degree over last three years.
- 5 have submitted thesis and waiting for viva.
- 35 faculty are at different stages of work, having completed pre Ph.D Examination.
- College cannot admit Ph.D Students as a policy.

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

The range of sports and games, cultural and extracurricular activities in the college have been listed in the Tabular form below.

SPORTS & GAMES

S. No	Sports & Games
1	Cricket
2	Football
3	Throw ball
4	chess
5	Caroms
6	Badminton
7	Table tennis
8	Billiards

CULTURAL & EXTRA CURRICULAR ACTIVITIES

S.NO	Cultural & Extracurricular Activities Performances
1	Traditional Day
2	Fresher's day
3	Annual day
4	Essay writing
5	Painting

DETAILS OF WINNERS IN VARIOUS SPORTS AND GAMES ACADEMIC YEAR 2014-15(as illustration)

Sl.No	Name of the Event	Name of the Student
1	Cricket	S.Prudhvi & others
2	Volleyball	A.Venkatesh& others
3	Foot ball	Aditya Thummal & others

4	Basket Ball	K.Rahul Reddy& others
5	Throw ball	Sneha Reddy & others
6	Table Tennis	A.Venkatesh & others(Boys) J.Vyshnavi & others (Girls)
7	Chess	Varanasi sai krishna & others(Boys) A.Hari sree & others (Girls)
8	Badminton	K.Bharghav& others (Boys) Y.K.Sahithi & others (Girls)
9	Carroms	Y.Pranab Enosh & others (Boys) D.Bhavishya & others (Girls)

NOTE: Detailed lists of various sports and the prize winners are available in a separate file with Physical Education section.

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.

- The College conducts sports competitions for all students in the college. Prizes are awarded for the best teams in all sports events every year prior to College Annual day celebrations to induce a sporting spirit in them. Majority of students take active participation in both indoor and outdoor games.
- Best sports teams from the College are encouraged to participate in inter-college sports competitions and national level competitions during which they will be provided with TA and entire expenses during the visits.
- Students take active part in making working models of mechanisms, circuits, robots etc and present them in exhibitions that are conducted during Department and college level technical fests. Best models are rewarded.
- Literary and cultural club of the college conducts Literary and cultural events thrice in every year during College Day, Fresher's Day and Traditional Day celebrations.

A brief list of merit and participation certificates at various levels are listed below.

1. Andhra Pradesh 16th State level cycling Road Championship-2011: S.Trishal.
2. Inter –college Table Tennis Sports Bout-2K14 held at Anurag Group of Institutions: T.R.Abhay Srinivas won Second position.
3. 6th Annual State Ranking Table Tennis Tournament and Inter Institutional championship 2014: T.R.Abhay Srinivas participated.
4. Hyderabad dist.Roller scattting championship,2013(GHMC)-2014:Ms Lakkaraju Mounika won First prize.
5. Roller Scatting Held at Virar, Maharashtra-2015:Ms Lakkaraju Mounika won Third prize.

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

Feedback from students is collected twice in each semester in each subject. Based on the assessment of the feedback, immediate action is taken.

- Feedback from students is used for planning and developing support services like OHP, NPTEL lectures using LCD or Internet downloaded lectures or demonstrations.
- The feedback throws light on the efficacy and professionalism of the faculty concerned. Any drawbacks in the teaching methods are brought out and necessary steps either in the form of a one-to-one discussion with the faculty, Training / counseling is provided to ensure that the gaps are filled.
- A typical feedback form by one of the students is presented here below.

FEEDBACK FORM
STUDENT'S EVALUATION OF SEMESTER COURSE
 ACADEMIC YEAR: 2011-12

Year: II -I

Course: B. Tech. (10 Batch)

Semester: II-I

Branch: Mechanical

Appeal to the Students – Your feedback on the course will be of great value to the Department to enhance the quality of learning. Please choose proper assessment from the following for each question. The form need not be signed by the students.

Excellent (6) Very good (5) Good (4) Satisfactory (3) Poor (2) Very Poor (1)

Sl. No.		1	2	3	4	5	6
		Environmental Science	Probability & Statistics	Electrical & Electronics Engineering	Mechanics of Solids	Thermodynamics	Metallurgy & Material Science
1.	Rate the course in general.	4	5	5	4	4	3
2.	How uniform was coverage of syllabus content?	5	6	6	5	3	4
3.	Did the Instructor use illustrations/problems for better understanding?	5	5	4	5	4	5
4.	What is the level of clarity of expression?	4	5	5	4	3	4
5.	Do you feel enough time is given for clarifications of doubts?	3	5	6	3	4	4
6.	Was the Instructor enthusiastic	5	6	6	4	3	3
7.	How good is the teacher's command over	5	5	5	5	5	3
8.	As a student, my attendance in this subject is.	4	5	4	5	4	5

NOTE: The student feedback forms are very confidential and they are sent directly to the Honorable Advisor who in turn analyses the feedback and advises the respective Head of the Department to counsel the concerned teachers.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?

Yes. The college has mechanism to seek and use data and feedback from its graduates and employers.

- Feedback from the graduates has been taken through emails.
- A typical feedback of one of the Alumni is presented here below.

ALUMNI FEEDBACK FORM ESSENTIAL DETAILS

Alumni	Routray Jajati Keshari (10B81A0225)
Father's Name	Routray Aditya Narayan
Date of Birth (DD/MM/YY)	21/05/1993
Year of Passing out & Branch	2014, EEE
Permanent	H.No.1-5-982/1/2, Plot N.314, Citizen
Contact No.	+91 7416634112
E-Mail ID	jajatikr7@gmail.com
Present Organization	Deloitte
Designation	Business Technology Analyst

Kindly select the appropriate option as per the following criteria

A - Highly Efficient B - Efficient C – Satisfactory D - Below Satisfaction

I.FEEDBACK ABOUT COLLEGE (Point No.1to 5)

Do you feel proud to be associated with CVR as Alumni? Yes

4. How do you rate development activities organized by the College for your overall development? A ☐ B ☐ C ☐ D ☐ - D
5. Are you willing to contribute to the development of the college? Yes
6. Were /Are your grievances properly handled at the college?
(a) As a student Yes (b) As an alumni N/A
5. Rate the adequacy of following as they were during your tenure as a student at CVR:
 - Laboratories & Equipments C
 - Library B
 - Computer Facilities B
 - Internet & Wi-Fi D
 - R&D Projects D

II. FEEDBACK ABOUT DEPARTMENT & FACULTY (Point No. 6 to 9)

6. Have you obtained sufficient technical know-how (both in theory & practice) at CVR? No
8. Is the education imparted at CVR useful and relevant in your present job?
N/A
8. Were the HOD's & Faculties cooperative? Yes
9. Rate the following academic initiatives taken by the college to improve technical know-how of the students.
 - Industry Oriented Projects B
 - Seminars & Workshop B
 - Online Examinations D
 - Special Training Classes for bridging Industry Academic gap
N/A

III. FEEDBACK ABOUT TRAINING & PLACEMENT CELL (Point No. 10 to 16)

10. Has the T&P Cell provided ample On campus placement opportunities? Yes – But only to computer Companies.
11. Has the T&P Cell provided sufficient Off campus placement opportunities? Yes
12. Have you availed Career counseling and guidance for higher studies from T&P Cell? N/A
13. If you are invited to deliver A Guest Lecture/ A Special Talk /A Motivational Session for your juniors, will you be interested? Yes
14. Do you like to join the college Alumni Association? Yes
15. Have you participated in any Alumni meet as of now? No
16. Do you receive regular updates from the college through Mails/ Calls/ SMS etc? Yes

IV. GENERALIZED EXPERIENCE SHARING (Point No. 17 to 20)

21. Have you ever been appreciated by your Company. If yes, please share details
None

- Faculty. If yes, please share details – Praised by Faculty for studies and final year seminar on 3D Printing Technology.
-

Peers. If yes, please share details- Praised for information gathering skills on projects worked.

22. Have you made any significant achievement as:

- A student of CVR. If yes, please share details- Was finalist at ‘StudentCompetitions’ scholarship program - Only student from JNTU
-

An Employee of your organization. If yes, please share details- None

23. Most Memorable Moment in the college.

Time spent with friends and making electronic projects on our own.

24. Suggestion for improvements

- Department- Electrical and Electronics Engineering – Please provide information through sessions regarding internship opportunities in private firms and how they come to hire someone after internship.
 - College- Provide comfortable buses travelling to faraway places, provide more freedom on campus.
-

SIGNATURE

JAJATI KESHARI ROUTRAY

DATE

24/12/2014

NOTE: The feedback forms received are under the possession of the principal.

5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.

- A Technical Fest under the title CIENCIA is conducted every year and students present their technical innovations, catalogues, wall magazines, and other material, during this festival.
- Management supports it financially and with infrastructure and extends guidance by faculty.

Following are some of the activities organized by Students

A) General events

- Tickle your brains
- Reverse Engineering
- Approve and Argue
- Photo Graphy contests
- Art Gallery

B) Paper presentations by students by various colleges in south India are held for each branch of Engineering. Papers are reviewed and selected for presentation. Judges are invited from outside institutions for adjudicating the best papers. First and second prizes are awarded for the papers in each department

C) Technical Events

- Robo Design
- Website design
- Poster design
- Code breaking
- Robotics Arena
- Paper Presentation
- Tech Maniach
- Circuitronics

D) Gaming and Food Stalls

E) Mock interviews

F) 4D movie

Various Committees are formed for the organization of events such as :

- Steering committee
- Technical symposium committee
- Canvassing and campaigning committee
- Certificates and finance committee
- Food arrangement committee
- General events committee
- Hospitality committee
- Media promotions committee
- Prize distribution committee
- Robotics event committee
- Registration committee
- Stage management committee
- Technical events planning committee
- Transport committee
- Web committee
- Workshop committee
- Gaming committee

- Cultural committee
- SOS committee

Mechanical students have manufactured the following models at Yantranica

- Crank and slotted lever mechanism
- Elliptical trammel
- Old ham coupling
- Wooden air engine

Around 90 prizes are awarded to the winners in various events at the Technical Function CIENCIA Spending an amount of Rs. 2,70,000/-

Further a large number of Prizes are awarded at Annual Day Functions for sports spending significant amount of money in towards Cups and Medals.

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

College encourages various Associations for students. Each of them has their bye-laws, Executive bodies etc. For example, Mechanical Engineering Department has a society by name “Society of Automotive Engineers” and IEEE, IETE, associations in Electrical Engineering etc. There is Innovation Club. They function with students funds. Management liberally contributes for any deficiencies and necessities.

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

- IEEE student’s chapter
- Women in Engineering affinity group under IEEE
- Civil Engineering Association
- EEE Association
- SAE under Mechanical Engineering department
- IETE under Electronics Communication Department
- CSE & IT Students association.

Guest lectures, seminars are conducted by each department involving students’ body. There is students’ body with President / Secretary/ Joint Secretary. These students lead in bringing the Guests, introducing them and proposing vote of thanks including organizing group discussions.

Photos printed below show part of facilities available for Sports and games in the college



WCRTERION-VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the College

Vision of the College:-

- The College aims at becoming as a state of the art institution of engineering in association with leading Non-Residential Indian technological professionals and well known Academicians of Andhra Pradesh. Wishes to harness both the technical excellence and financial power of NRIs in making CVR College of Engineering a pre-eminent technical institution.

Mission of the College:-

- To invite Senior Professors from JNTU, OU, IITs and scientific institutions to be on rolls of CVR College of Engineering to Create excellent leadership, equally to attract qualified Teachers & Researchers.
- To impart quality education at under graduate and graduate levels.
- To create atmosphere of academic freedom to faculty members and planning of work load such that faculty has enough time to improve their qualifications.
- To stress on quality of infrastructure, so that the laboratory facilities meet the requirements of UG/PG/Ph.D. level with latest technology and software.
- To establish very active industry-institution interaction cell, Entrepreneurship Development Cell and Centre for Excellence
- To strengthen teaching learning processes, including improving the student caliber from societal drawbacks.
- To offer incentives to staff to encourage improvement of qualification, publications, text book writing etc.
- To encourage merit of students by offering Gold Medals for toppers & best project, cash prizes for class wise, branch wise toppers for each year and offer incentives for paper presentations.
- To develop the Institute into University.

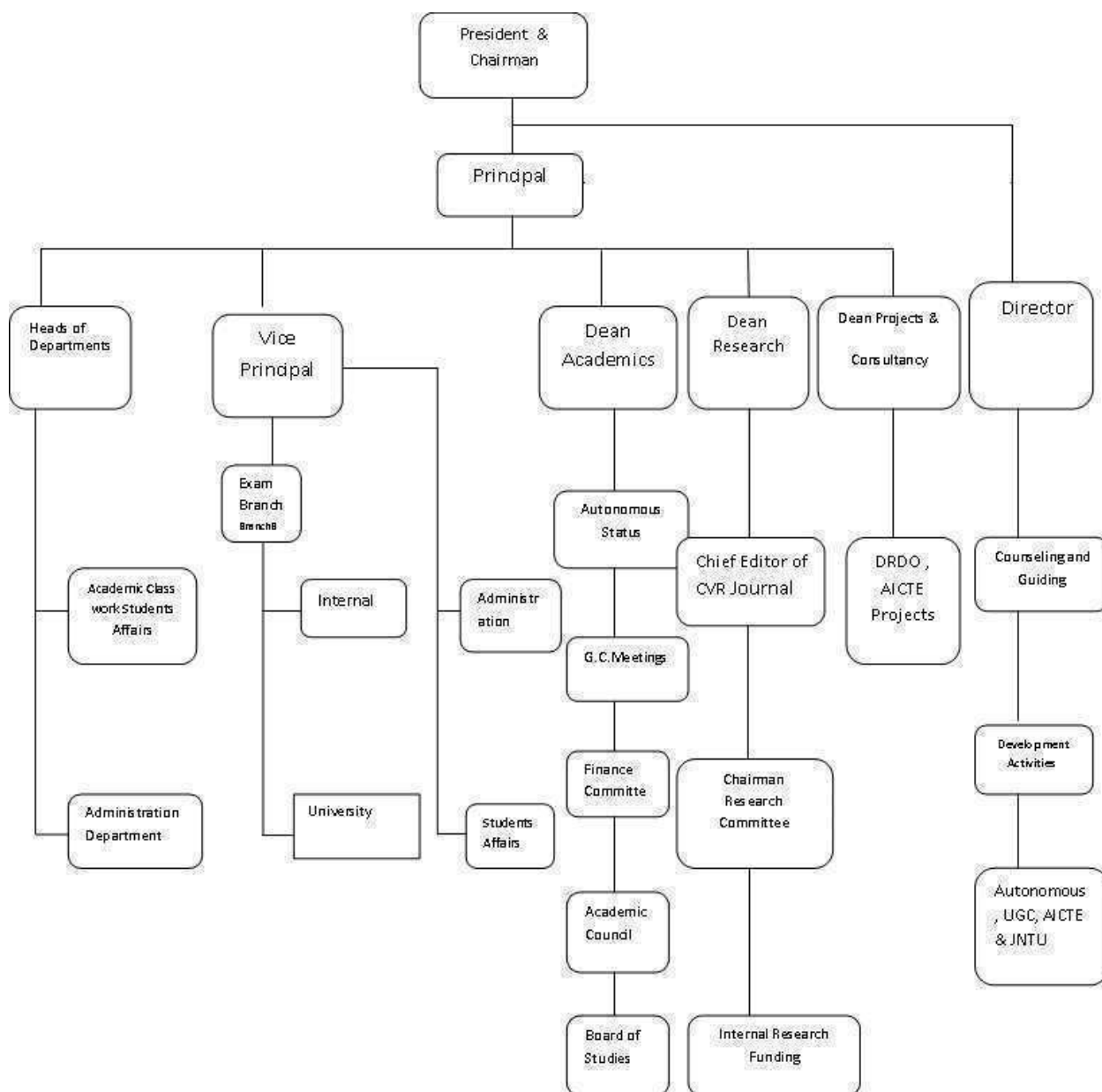
1.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?

The college developed its mission statement which is not only comprehensive but also realistic. The Mission statement stands as the quintessence of the educational philosophy nurtured by the college in addition to presenting its commitment to being pragmatic as far as its academic goals are concerned which are enshrined in its Vision. The mission statement puts forward three significant characteristics that the students would acquire by undergoing the teaching-learning process offered by the curriculum.

6.1.3 How is the leadership involved in

- o **ensuring the organization's management system development, implementation and continuous improvement**
- o **interaction with stakeholders**
- o **reinforcing culture of excellence**
- o **identifying needs and championing organizational development (OD)?**

The leadership hierarchy in our College is as follows



The entire Examination Branch will be under the Administrative control of Control of Examinations.

Ensuring the organization's management system development, implementation and continuous improvement

The leadership in the college always looks for Vision and Mission of the institution which are in tune with the objectives of higher education policy of the nation, the aim of which is to provide high quality education to the utmost satisfaction of all stakeholders.

➤ Interaction with stakeholders

There is a mechanism to receive the feedback from the parents. The feedback received is analyzed by the principal, Director and HODs. The suggestions which are possible to be implemented get identified and will be informed to the management for approval.

There is a regular feedback from students on all teachers at the beginning and end of each semester. The teachers whose performance is not satisfactory are identified by the HOD and necessary counseling is provided under the guidance of senior teachers.

➤ **Reinforcing culture of excellence**

The management and higher authorities of the college realized and encourage the fact that the vertical growth of the institution in terms of transforming it into a centre of high academic excellence is very much required reinforcing student centric learning, research & Innovation, patenting etc., is carried to achieve culture of excellence. The Principal, in consultation with the HODs, and Head R&D wing, plans the activities to bridge the knowledge gap through industry oriented add on courses, guest lectures by leading academicians and industrialists, and frequent visits of students to industries. The Principal, HODs and faculty members encourage the students to represent the institution at various conferences, technical paper presentations organized at various prestigious institutions and Industry Institution Interaction meetings.

➤ **Identifying needs and championing Organizational Development (OD)?**

The college seeks feedback and observations from its stakeholders on different occasions and makes sincere efforts to put itself in a rational stead. In the process, the college has been striving hard steering its ways to achieve excellence.

6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

None of the senior leadership positions is vacant. Most of the seniors who joined are continuously available with high retention rate.

6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

The statutory bodies such as Governing Body, Academic Council, Finance Committee, BOS (Board of Studies) were filled with eminent personalities as per the guidelines framed by the UGC. The meetings of the above statutory bodies are being conducted at stipulated intervals and the minutes of the meetings are made available at administrative office and respective departments. Any vacancy arising steps are always taken for immediate filling.

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

The College promotes the participative management. All the main decisions are taken by the Principal after wide consultation with the HOD's. Meetings of Heads are frequently convened.

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

The affiliating university nominates the eminent personalities for the college Governing body, Academic Council and Board of Studies for designing the curriculum and providing the suggestions to improve the quality of education in the college. The coordination between college and university is very satisfactory, with the result, replies and advices come from the university very quickly.

6.1.8 How does the College groom the leadership at various levels?

In our college, the main focus is on developing transformational leaders through giving freedom to do various activities independently at different levels. Assistant professors and Associate professors are involved as laboratory in-charges for development. Many faculty discharge additional duties like class teacher, mentor, and members of various committees which groom them for leadership.

At HOD level:

- Given autonomy to set their departmental objectives and design an action plan to achieve them in an interactive manner.
- Practices MBO (Management By Objectives) by encouraging faculty to set their objectives and action plans under their guidance.
- Self-appraisal is taken semester wise, to find out their progress and those who are successful in reaching their goals are advised to set higher goals. Encouraged to think in a novel way to improve the curriculum and design the program.
- Advised to give focus in positioning the department to attain the number one status.
- Encouraged to go and visit various institutions to find out how they are functioning, observe the practices and implement if necessary.

At Faculty level:

- Are given representation in various committees and conduct various programs to show their abilities.
- Given freedom by their respective heads in updating the syllabi, innovate new teaching methodologies and have their own teaching plan.
- Encouraged to develop leadership skills by being in-charge of various academic, co-curricular and extracurricular activities.
- Encouraged to conduct industrial tours. Encouraged to have tie-up with industry experts and organize seminars

At Students level:

Encouraged continuously to organize various programs like **ELECTROCRUISE, CIENCIA** Techno-Cultural Fest to bring their leadership qualities to limelight. Encouraged to take up different projects as a team and innovate products under the guidance of the faculty. Organizes continuous leadership development programs like role plays, soft skills training program. Encourages to empower themselves through experimental learning. Promote entrepreneurs through a specialist Entrepreneurship Development Cell which has tie-up with various industrialists.

At Management Level:

Management is involved in strategic planning with clear vision. The management makes efforts to scan the environment continuously enabling constant refocus of the vision. The Governing Council and top echelons of the management provide strategic vision to the college enabling quality professional education. With the Governing Council having eminent educationalists as their members there is good interplay of creative ideas for the continuous growth of the institute on innovative basis.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

The college has website which will keep the information of the college up to date. The college also has the Intranet where all the important documents and software resources, e-books are shared within the campus. The college arranges the guest lectures on effective teaching learning processes, staff development programs on latest technologies to share the knowledge.

The College maintains a video lecture repository consisting of lectures from NPTEL (National Program for Technology Enhanced Learning) and other reputed universities in the central library along with the access to online databases such as IEEEExplore, Science Direct, and Springer etc.

6.1.10 How are the following values reflected in various functions of the College?

- Contributing to national development
- Fostering global competencies among students
- Inculcating a value system among students
- Promoting use of technology
- Quest for excellence

Contributing to national development

- Nurturing the students through well defined academic system thus making them globally competent graduates.
- Taking up challenging R & D projects from DRDO, etc., and providing solutions to several technical problems.
- Service to mankind through NSS services, blood donation, adopting nearby village to bring awareness on public health, environmental protection etc.

Fostering global competencies among students

- Adopting outcome based education thus making students globally competent.
- Exposing students to industry by industry visits, internships and through Mini and Major Industry oriented projects.
- Involving students in R & D and Industry oriented projects.
- Special emphasis on soft skills & Communication to sustain in global competition.
- Inviting experts to deliver guest lectures on technology trends.

Inculcating a value system among students

- The institution is imparting human values among the student community by organizing various programmes in addition to the systems imbibe in regular academics. These programmes includes understanding the society through various volunteer programs.
- NSS activities- Got award from Governor of State for maximum and continuous blood donation.
- Cultural & Spiritual Programs
- Organizing the spiritual programmes in the college by eminent personalities.

Promoting use of technology:

- Following programme being organized by the college for promoting the use of latest technologies among students, faculty & Staff.
- Organizing number of workshops for the faculty on upcoming technologies.
- Training on specialized equipment for technical staff.
- Opportunities for improving qualification like Ph.D and updating skills.

Quest for excellence:

- The institute is striving for excellence in view of rapid change in technology and dynamic global environment. The following measures are taken.
- Improved teaching – learning environment.
- Initiated outcome based learning environment.
- College obtained NBA first accreditation at a minimum time of 2 batches leaving the college.
- It obtained second accreditation by applying immediately after first accreditation period including B.Tech(EIE) which became eligible then.

- Applied for third accreditation in December 2014 before the expiry of the second accreditation period.
- Obtained permanent affiliation of university at a minimum time period.
- Obtained autonomous status of JNTU in 2011 for three years.
- Obtained UGC autonomous status without any gap in autonomous status of JNTU.
- May be the first college to provide so many incentives as stated in Part I of the document.
- Got award from the Chief Minister of State for being the College of maximum placements

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance

UGC has sanctioned autonomy to the college from the academic year 2014-15 for a period of 6 years. As the College has begun functioning as autonomous from this June-July 2014, a review will be taken up by the review committee in due course.

6.2.1 Does the college have a perspective plan for development? If so, give the aspects considered in development of policy and strategy.

- o **Teaching & Learning**
- o **Research & Development**
- o **Community engagement**
- o **Human resource management**
- o **Industry interaction**

Yes. Institute has a perspective plan of development.

Aspects considered are:

- To provide quality technical education on par with international standards.
- To strengthen the culture of R & D by promoting production of intellectual property in terms of research output, publications, applied research and transfer of knowledge.
- To introduce various professional programs in collaboration with global institutions of repute.
- To introduce industry relevant programmes in association with leading industries through tie-ups.
- To strengthen student placement in national and multi-national companies.
- To further strengthen infrastructure from time to time to meet the growth requirements.

Teaching & Learning

- Implementation of outcome based teaching and learning methodology.
- Recruitment of well qualified and experienced staff as per AICTE norms.
- Sponsorship to faculty for higher studies and faculty development programmes.
- Use of modern teaching aids like LCD projectors and interactive boards in the class rooms.
- Continuous evaluation system for students.
- Introduction of various professional programs in collaboration with global institutions of repute.
- Emphasis on imparting skills through laboratory experiments and industrial visits / training / tours and various skill development programmes.

Research & Development

- To strengthen the culture of research and development by encouraging faculty members to pursue research by providing them the facilities like individual system, Wi-Fi connection, digital library, equipments and laboratory.
- To promote production of intellectual property in terms of research output, publications, applied research and transfer of knowledge.
- To encourage students to undertake industry sponsored projects.

- To encourage students to produce technical papers and contribute for research activities.
- To encourage faculty members to submit research proposals to various funding Agencies.
- MOUs with industries for undertaking R&D and consultancy.

Community engagement

- Institute conducts community programs like blood donation camps, Tree plantation and interacts with community.
- The students and faculty undertake community awareness programmes.
- To inculcate strong ethics and human values with continuous counseling and interaction with parents.

Human resource management

- Institute has mechanism of notification of regular posts and conduct interviews. The Institution recruits faculty members and staff based on the guidelines provided by the Affiliated University.
- Adequate number of qualified teaching and supporting staff are appointed through the procedure of open advertisement & interview by Expert committee.
- Apart from this whenever deserving candidate approaches the Institute, it conducts interviews and offers suitable position.
- The recruited faculties are deputed to undergo Faculty Development Program to enhance the Teaching Learning Process.
- To seek ratification of university for the services of rest of staff on rolls.
- As of now, college has nearly 80% of staff under ratified category.

Industry interaction

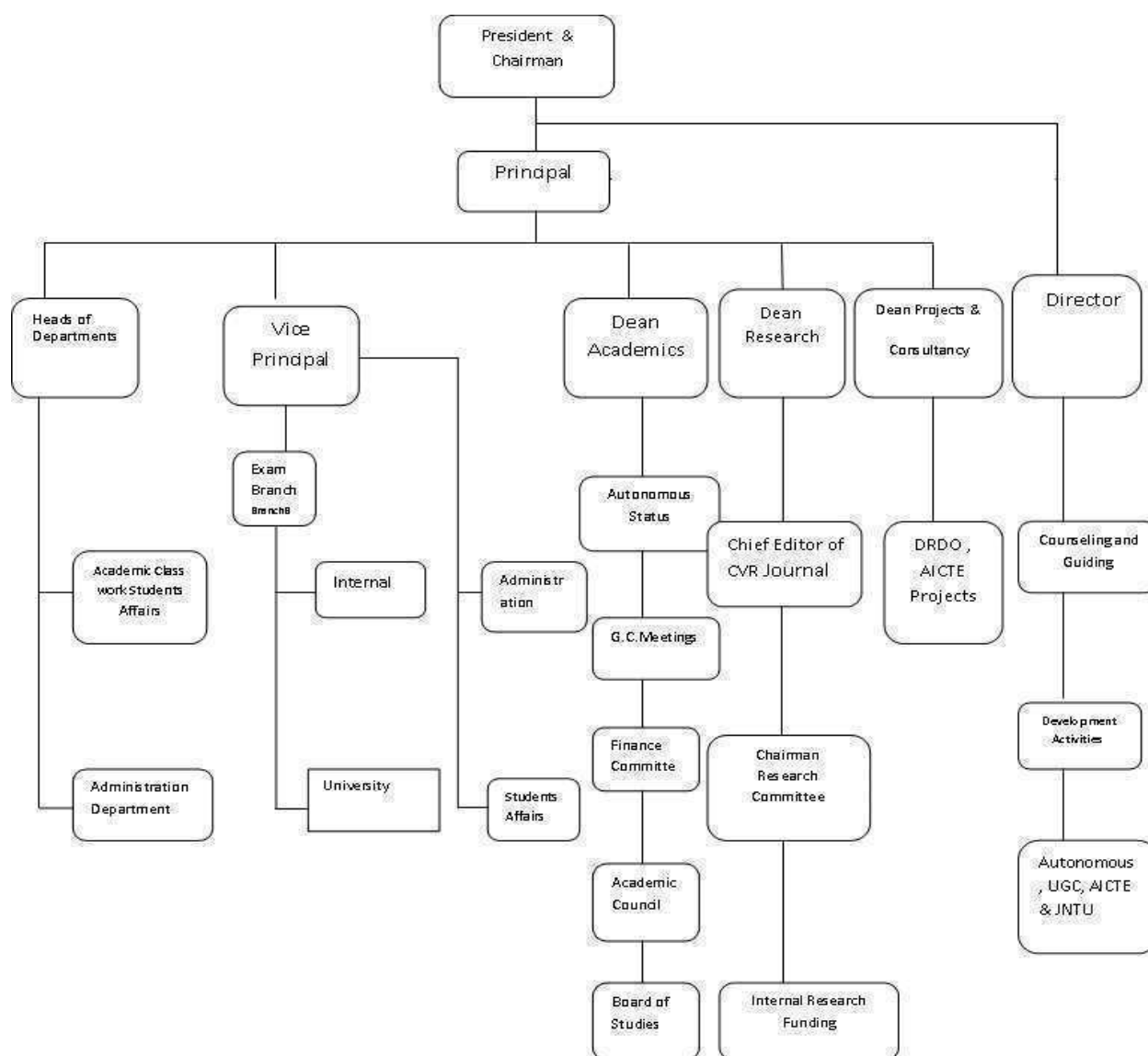
- To introduce industry relevant programmes in association with leading industries through tie-ups
- To encourage students to take up industry sponsored projects
- Involvement of industry experts in academic activities
- Providing consultancy to the industries
- College has Industry Interaction Cell, sanctioned by AICTE

College understands how important things are in relation to others and sees in a particular way for developing continuously. The promoter society is committed for the aspects of development of education, augmentation of infrastructural facilities and growth of the institution. It specifies targets to the institution along with allocating budget. To arrive at the target to be specified, Management seeks the information from all stakeholders, observers and evaluates the best practices and strategies of other institutions those are striving for excellence. In line to the views of the Society, college determines the needed infrastructure for academic advancement, bringing excellence into the activities and allocates budget accordingly.

- Allocation of budget taking up in house R & D as a measure to improve research activities
- Networking all the classrooms for effectively implementing ICT.
- Development of e-learning materials
- Industry specific projects

6.2.2 Enunciate the internal organizational structure of the college for decision making processes and their effectiveness.

Internal organizational structure:



The entire Examination Branch will be under the Administrative control of Control of Examinations.

Functions of Key Administrative Positions:

Position	Functions
President and Chairman	- Frame directive principles and policies. - Amend and approve policies from time to time - Approve budgets and place before Finance Committee and Governing Body for sanction.
Director	- Counseling and Guiding - Spearheading preparation for all Accreditation work - Planning developmental activities - Guidance for AICTE, JNTUH, interfacing
Principal	- Mobilize internal & external resources to strengthen the institute - Plan & provide necessary facilities/equipment for development. - Instill confidence and devotion in every member of the institute - Periodic monitoring & evaluation of various processes - Ensure effective purchase procedure

	▪ Define quality policy and objectives ▪ Annual budget allocation and spending ▪ Arrange periodic meeting of various bodies and committees. ▪ Accounts and finance ▪ Employee recruitment
Vice- Principal Administration	▪ Employee Recruitment and development ▪ Purchase Process ▪ Annual Magazine ▪ Resource Provision ▪ Preparing Budget ▪ Office Administration ▪ Compliance with AICTE, DTE & University ▪ Admission ▪ Transport ▪ Alumni interaction ▪ Public relations ▪ Resource Generation ▪ Housekeeping including hostels
Dean Academics	▪ Prepare and execute academic calendar ▪ Monitor the teaching-learning process ▪ Carry out result analysis and suggest corrective measures to Principal ▪ Initiate supplementary teaching measures ▪ Internal and External examinations ▪ Library Upgradation ▪ Student Training and Placement ▪ Proper conduct of co-curricular activities ▪ Formation of student council ▪ Proper conduct of cultural activities ▪ Proper conduct of sports activities ▪ Student discipline ▪ Student health care ▪ Student orientation
Dean, Research	▪ Up-scaling and enhancing the research activities within the institute ▪ Raise awareness of funding opportunities to support faculty research and externally funded sponsored/consultancy project ▪ Encourage industry institute linkages and collaborative research ▪ Motivate faculty to write projects ▪ Monitor the effective utilization of funds of externally funding projects. ▪ Facilitate the Consultancy work in the institution. ▪ Maintain and update record of research publications.
Training and Placement Officer	▪ Liaison with industry ▪ Identify and provide for training needs of students ▪ Arrange campus interviews ▪ Proposing annual T & P budget
Administrative Officer	▪ Liaisoning with AICTE, DTE and SU ▪ College roster ▪ Service Books ▪ Faculty personal files ▪ Recruitment process ▪ Maintain minutes of meeting (all) ▪ New proposals

	▪ Co – ordinate day to day activities of office ▪ Purchase process ▪ AICTE, DTE, SU committee preparation ▪ Annual College budget ▪ Shikshan Shulka Samiti requirements
Heads of Department	▪ Plan and execute academic activities of the department ▪ Maintain discipline and culture in the department ▪ Maintain the department neat and clean ▪ Pick and promote strengths of students / faculty / staff ▪ Monitor academic activities of the department ▪ Propose Department Budget ▪ Adhere to QMS Procedures ▪ Maintain records of departmental activities and achievements
Controller of Examinations	▪ To organize all the activities of Exam Branch ▪ Maintain utmost confidentiality ▪ To receive directions from the Principal and Vice Principal
Librarian	▪ Plan and execute modus operandi of routine activity of the library ▪ Plan and propose expansion / development ▪ Maintain library discipline and culture ▪ Prepare annual budget for library
Alumni Incharge	▪ Formation of Student Council (SC) ▪ Arrange periodic meetings of SC ▪ Ensure alumni registration ▪ Prepare alumni news letter ▪ Arrange “Runanubandha” meet ▪ Proposing annual budget
Workshop Incharge	▪ Smooth running of college workshop ▪ Preparing Material Requirement ▪ Oversee the routine work ▪ Oversee the college bus service ▪ Oversee the generator facility
Counseling Cell Incharge	▪ Facilitate career guidance to students ▪ Assist students suffering from psychological disorders ▪ Arrange for professional counselors ▪ Maintain record of counseling activities ▪ Student academic counseling ▪ Provide slow-pace programme for weaker students ▪ Arrange remedial classes for weaker students
Student Professional Activities Incharge	▪ Organize events through students professional societies / chapters ▪ Organize paper and design contests ▪ Encourage student participation ▪ Publication of technical magazine and news letters ▪ Record of student participation and achievements in Co-curricular and extra – curricular activities ▪ Maintain record of such events
Physical Instructor	▪ Ensure smooth conduct of sports ▪ Ensure proper use of gym ▪ Purchasing of sport items ▪ Encourage students to participate in zonal tournaments ▪ Creation and upkeep of sports facilities ▪ Proposing annual budget

6.2.3 Specify how many planned proposals were initiated/ implemented during the last four years. Give Details.

External Sources of Funds:

Grants received previously:

S. No.	Name of the Scheme(s)	Grant sanctioned (Amount & Date)	Grant utilized	Whether utilization certificate submitted	Major impact
1.	One-day Seminar on 'Environmental Problems & Ecological Disasters'	Rs.45,000/- File No.1-4/FD/SEM (80.)/2003-2004, Dt.26-04-2004	Rs.58,690/-	Yes. (For Rs.58,690/-)	Well represented by major industries like Irrigation, MCH, Public Health etc., having more than 100 participants.
2.	Travel Grant	Rs.1 Lakh Letter No.1-7/FD/TR (305)/2003-04, Dt.27-03-2003	Rs.1 Lakh	Yes. (Report and Receipt sent to AICTE for Rs.1 Lakh)	Dr. P. Sarah attended Gordon Research Conference at California.

Grants received from other Government Organizations:

S. No.	Sanctioning Authority	Place	Title	Letter No. Date	Amount (Rs.)	Duration
1	DRDO (Project)	CVR College of Engineering, Mangalpalli, Ibrahimpatan	Synthesis and Characterization of Bismuth Layered structure Ferroelectrics for tailoring Ferroelectric and dielectric properties	ERIP/ER/0204260/M/01 dt.13-03-2003	17,95,000	1 st Aug. 2003 to 31 st July 2006
2	APCOST Paper presentation	Conference at Dhaka, Bangladesh	Synthesis and Characterization of Piezoelectric 3-0 Composites of Lithium Ferrite/Barium Titanate	4/APCOST/S&T-T.G./03-04 Dt.29-09-2003	15,000	25 th –27 th Feb 2004
3	DRDO (Conference grant)	CVR College of Engineering, Mangalpalli, Ibrahimpatan	Two-day National Conference on Ferroics	ERIP/ER/06-07/C/9/M/01 Dt.15-05-2006	50, 000	30 th June-1 st July 2006
4	BRNS	CVR	Two-day National	2006/17/34/16-	1,00,000	30 th June-

	(Conference grant)	College of Engineering, Mangalpalli, Ibrahimpatan	Conference on Ferroics	BRNS/505 dt.13-06-2006		1 st July 2006
Name of the External Sources		Letter No. & Date		Grant Sanctioned	Remarks	
AICTE Staff Development Programme		200-35/FIN/2001-2002/1071 Dt:08/02/2010		1,14,600/-	Conducted in August 2010 and Utilization certificate furnished to AICTE	
AICTE Seminar Grant		200-37/FIN/2001-2002/1232 Dt:22/02/2010		62,500/-	Conducted and Utilization certificate furnished to AICTE	
AICTE Modernization of Communications Lab		Ref.No.12/AICTE/RIFD/MOD (Policy-4)Pvt-25/2012-13 dated:26/3/2013		Rs.10,80,000/-	Completed and utilization certificate furnished to AICTE	
AICTE Faculty Development Programme		F.No.6-24/RIFD/FDP.P(1)/2013-14 dated 06/5/2013		Rs.4,50,000/-	Conducted and Utilization certificate furnished to AICTE	
AICTE Entrepreneurship Development Cell (EDC)		F No.4-21/RIFD/EDC/Policy-1/2013-14 Dated 29/5/2013		Rs.4,50,000/-	Received recently. Two programmes have been conducted.	
AICTE Industry Institute of Partnership Cell (IIPC)		F.No.14-22/RIFD/IIPC/ POLICY-1/2013-14 Dated 17/7/2013		Rs.12,00,000/-	Received recently. Two programmes have been conducted. Equipment worth Rs.4 Lakhs has been purchased.	
DRDO ,Hyderabad DAS Hardware		DRDL/24/08P/12/0249/41745 Dated 14/12/2012		Rs.8.8 Lakhs	Completed.	
DRDO ,Hyderabad OFDM		DRDL/24/08P/12/0250/41744 Dated 30/11/2012		Rs.9.0 Lakhs	Completed recently.	
DRDO,Hyderabad DAS Software		DRDL/24/08P/12/0248/41746 Dated 21/11/2012		Rs.8.7 Lakhs	Work in Progress	

Internally acquired funds:

1. Institutionally funded Unmanned Aerial Vehicle Project Costing Rs.6.84 Lakhs development over the period of 1 ½ year
2. Institutionally funded BHEL confidence Building Project, involving four M.Tech. students and two faculty members costing Rs.2.1 Lakhs

Name of the internal Source	CFY 2014 - 15	CFY 2013-14	CFYm1 2012-13	CFYm2 2011-12	CFYm3 2010-11
Students' Admissions fee	67,88,545	40,80,000	31,87,140	40,53,995	9,85,980
Books & Course Material Fee	25,61,285	25,01,000	18,94,112	10,56,356	9,18,582
Transport Fee	Not with College	3,01,27,000	2,16,67,530	1,71,93,919	1,53,92,075
Examination Fee/ Remuneration	81,07,660	64,32,740	51,21,256	42,61,941	57,17,745
Interest A/c.	49,45,374	19,52,829	33,47,620	21,08,432	16,27,497
Misc. Fee receipts	1,41,97,586	1,77,29,139	1,71,75,678	7,75,619	7,05,499
Tuition Fee	22,50,96,586	19,82,75,800	13,75,46,559	11,56,44,224	10,90,39,081
Total	29,92,11,477	26,10,98,508	18,99,39,895	15,58,82,644	13,43,86,459

College has entered into an MoU with MTS Technologies, a German based company with branch at Hyderabad. In pursuance of the objectives of MoU, one batch of 3 (three) students of final year (2009 batch) have taken a project on Automatic License Plate Recognition (ALPR) with MTS. The project has Prof. L.C. Siva Reddy as Guide. The company has remitted an amount of Rs.45,000/- towards the fee payable to college.

6.2.4 Does the college have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

Yes, CVRCE has a formally stated quality policy as given below.

- We intend to continually enhance performance of our institute quality in various directions
- Functioning in a structured, organized & coordinated manner
- Being conscious about our responsibilities and authorities at formal & informal levels
- Taking every possible initiative in the role assigned
- Quality policy is derived and aligned with respect to the vision and mission of the institution stated above. Quality policy clearly states the objectives of the institution, their process of progress towards the achievement of objectives and its contribution to the society. All these strategies are monitored by the Internal Quality Assessment Cell (IQAC)

Quality Document defines College Policies on all the issues for quality assurance. They shall be implemented scrupulously encouraging improvement and innovation at various levels, and developing the institute into a Centre of Excellence thus increasing the stakeholders' value and providing quality service to the society.

In light of the challenges posed through Liberalization, Privatization and Globalization, competency development among humans is identified as only the solution. Basing on that conclusion, the quality policy of the college is developed and adequate awareness is given to all stakeholders through website and publications of the college.

The College has constituted Internal Quality Assessment Cell (IQAC), supported by each department having Quality Cell. Guidelines are issued by IQAC to strengthen Teaching – Learning practices, faculty development programme and activities under R&D. Periodical review is made by IQAC.

6.2.5 How does the college ensure that grievances / Complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

- Institution ensures that grievances/complaints are promptly attended to and resolved effectively through following mechanisms for promoting better stakeholder relationship.
- To redress the genuine grievances of staff and students college has constituted a grievances redressal committee.
- To assist the college administration a number of committees are formed to attend and resolve the grievances/complaints of students and staff.
- Students meet the Director/Principal regarding their grievances.
- Constitution of anti-ragging committee to prevent ragging.
- Constitution of “Women’s Grievances Redressal Committee” to address related issues.

The grievances are also understood through the feedback given by the staff, students, industries and parents.

All the grievances related to academics are discussed with the concerned Heads of the departments and resolved at the earliest.

A complaint box is available. It is opened by the office in the presence of principal and recorded for necessary action.

List of faculty members who are administrators/decision makers for various assigned jobs

- Most of the staff are involved in administrative, curricular and extra-curricular activities.
- Every lab has a faculty member as Lab-in-charge who initiates all purchases and repairs.
- HoD has been authorized to invite quotations from competitive firms. Comparative statement is prepared and recommendations are made by the Department.
- HoD has financial powers upto Rs.40,000/- and also maintains Imprest amount of Rs.10,000/-.
- Principal is administrative Head of the Institution and has financial powers upto Rs.50,000/-.
- All purchases are, in principle, approved by the Chairman.
- For other curricular and extracurricular activities, the Departments and HoDs will put up proposals for financial approval by the Chairman. Organization of such activities is done by the department itself.

Specify the mechanism and composition of grievance addressal system, including faculty association, and staff-union, if any.

As per the University directions based on UGC communication, the College constituted Grievance Redressal Cell (Women) headed by a senior lady faculty member as Chairperson. It consists of five members with one male member. This was well circulated and displayed on the Notice Boards for wide publicity. There are Disciplinary Action Committees for any misbehavior of the Students.

Complaint boxes have been displayed at two prominent points. At the end of the day, the boxes are opened by the Assistant Registrar of the College. Follow-up action is taken with the instructions of the Principal.

Anti-Ragging Squads consisting of staff and students with a Professor as Chairman are constituted every year to take effective measures against any possible ragging. Anti-Ragging

flying Squads are also constituted who make surprise visits to college buses and in the campus. Any complaint received by the principal is referred to the Disciplinary Action Committee headed by the Vice-Principal of the College.

Malpractice Prevention Committee: Malpractice Prevention Committee is a Committee constituted under norms of the Affiliating University. It consists of Principal as Chairman, two Heads of the Departments based on the involvement of the case, student wise & question paper wise, Professor Incharge of the Examinations and Observer. The report of the Malpractice Prevention Committee is communicated in the proforma on the same day of the incidence of the malpractice in the University examinations, to the Principal, recommending the punishment as per the University norms.

6.2.6 Does the College have a mechanism for analyzing student feedback on Institutional performance? If 'yes', what was the institutional response?

Yes.

College obtains feedback in several ways

- Students feedback
- Exit feedback
- Alumni feedback
- The students feedback concerned with academic activities is collected twice in a semester.
- Institute conducts exit survey to obtain feedback on institutional performance.
- Head of the institute and HODs ensure the performance of each faculty, if it's not satisfactory the appropriate measures will be taken on the faculty through counseling. Needed support and guidance will be provided by senior faculty. The improvement of the performance of that faculty will be monitored through subsequent feedback.
- Appreciation letters are issued to those who have performed well in teaching.
- Students feedback on syllabus and its scope will be analyzed to suitable modification.

6.2.7 In what way the affiliating university helped the college to identify the developmental needs of the college?

- The affiliating University helps the College in its functioning by nominating its representatives on various bodies like the Academic Council, Board of Studies of various departments and the Governing Body.
- Human resource and infrastructure viability study undertaken by University Inspection team when new course is to be initiated, the reports of which provide meaningful inputs for meeting the desirable developmental ends.

The affiliating university helps the College in all its academic activities in the following manner

- i. In framing the syllabus
- ii. In terms of UGC Grants
- iii. Co-operation in conducting seminars and workshops
- iv. Training to the Staff through refresher courses and workshops
- v. University Commission before granting affiliations for new programmes
- vi. Encourages colleges to utilize the services under its MOU with different organizations.

6.2.8 Does the affiliating university have a functional College Developmental Council(CDC) or Board of College and University Development (BCUD) ? If yes, In what way College is benefitted.

- The Officers of the affiliating University are available for consultation as and when necessary.
- The College benefits from the suggestions offered by the inspection team while introducing a new academic programme.

- University Nominees in various boards like Governing Body, Academic Council, Board of Studies offer constructive academic advice in tune with the developments taking place in university.
- There is University Nominee in the faculty selection committee.

6.2.9 How does the college get feedback from non teaching and teaching staff, parents and alumni on its functioning and how it is utilized.

The head of the institution ensures that adequate information is available for the top Management and the stakeholders to review the academic activities through:

- The review and analysis of feedback received from the students about the academic activities of the institution.
- The review and analysis of feedback received from the parents, industries and alumni.
- The regular meetings with faculty and students for the necessary improvements in various aspects.
- Parents' meeting is conducted every year to interact and receive the feedback.
- The review of suggestions received through the suggestion boxes from the staff and students.
- Interaction with the potential employers when they visit for campus interviews.
- The feedback is helpful for making laboratory instruction more effective.
- Modification of laboratory contact, incorporating latest technology, adequacy of infrastructure, problems associated with running of the college, gender problems etc are collected to make system more efficient.

6.2.10 Does the college encourage autonomy to its academic departments and how does its encourage its accountability?

Yes.

There is no interference of College Administration on day to day matters of the Departments. Periodic meeting of the Heads are held to assess any problems. There is a continuous monitoring on budget, R&D schemes, implementation schedule of calendar etc.

The College encourages each department to function in an autonomous manner. After receiving autonomous status, the departments enjoy total freedom in the following matters:□

- i. The institution is making optimum use of Autonomous status in terms of preparation of syllabi to cater to the needs of the society in the changing scenario.
- ii. Semester System is implemented in order to relieve the heavy burden and stress of the students.
- iii. The Departments are at liberty to bring about changes/modifications in the pattern of question papers, modification of syllabi to the extent of 20% by incorporating topics/ modules whichever are innovative and useful to meet the market demand.
- iv. Every Staff member is accountable for the result and coverage of syllabus in effective manner.
- v. Keeping this in mind, the Staff has to plan the syllabus, curricular and co-curricular activities of the year.
- vi. The slow learners are identified by the first mid exam and remedial classes are conducted in due course.
- vii. Student Placement Cell plans the campus interviews, guides the students in getting jobs on and off the campus interviews.
- viii. Fast learners are encouraged to read topics beyond syllabus, so that they can perform well in competitive examinations like GATE, UPSC etc.

6.2.11 does the College conduct performance auditing of its various departments?

Yes. It regularly conducts performance auditing of all its Departments so that it has an overview of its progress and pitfalls.

- College has College Academic Committee (CAC) constituted as per guidelines of the university.
- CAC fixes overall norms to be maintained in academic and administrative matters for every department.
- Meeting of Heads also fixes norms of satisfactory academic requirements.
- Every department should see that short term programmes, Guest lectures, student oriented seminars are completed per semester. They will help enhancing academic atmosphere in the department.
- Performance of students in internal examination and end semester examinations and corresponding review to identify cases of adverse nature.
- Internal quality committee at the college and department quality cell closely monitor the above aspects

6.3 Faculty Empowerment Strategies

6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?

- Orientation programme for 15 days for new faculty recruited at the beginning of every Academic Year
- Training teachers for excellence
- Sponsoring Faculty & Staff for higher education
- Sponsoring Faculty & staff for attending workshops, conferences at national and international level by granting academic leave
- Organizing Faculty Development Programmes
- Organizing skill development programmes
- Encouraging faculty to deliver guest lecturers outside
- Systematic organization of professional society activities
- Facilitating faculty to take up various roles in professional societies

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

- Review of the performance appraisal by Dean-Academic Affairs, Principal for suitable suggestions and remedial suggestion.
- Communication to concerned Faculty, providing support and guidance for Improvement
- Guidance to Junior Faculty by the expert senior faculty of the same subject.
- Syllabus coverage, time adequacy, student psychology of understanding the topics are points reviewed in reports of each faculty member.

6.3.3 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- EPF: Rs.780/- per month. College pays its contribution of Rs.780/- per month if the faculty member pays his contribution. 80% of faculty and staff are availing the benefit.
- CPF for all non-teaching staff.
- Transport Facilities: Free Transport for staff. 100 % of faculty and staff are availing the benefit.
- Maternity leave: 90 days for two times in career with full pay.

- Sabbatical leave to undertake study or research or other academic pursuits solely for the objective of increasing their proficiency and usefulness to the institution on higher education system.
- Medical Community Health Center with doctors in the campus between 9.15AM – 3.40PM exists in the campus. Treatment and consultation is provided free of cost to the staff members and students.
- Medical reimbursement facility for employees drawing salary less than Rs.15,000 per month.
- Interest free loan recoverable in installments is available to teaching and non-teaching staff.

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

- Management committee provides all facilities to its staff
- Liberal fixation of pay
- Implementation of 2006 UGC pay scales by College
- All staff have benefit of new scales
- Independent transport facility by providing car for Professors
- Promotion on obtaining Ph.D to immediate higher cadre
- Annual increment is awarded @10% of pay which is substantial
- Promotion criteria are fixed by the Management, Director and Principal. Based on the Criteria the staff members get benefited
- Incentives for publication of papers, writing books and procuring grants

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

- State Council fills up seats adopting 33% for girl students.
- Based on individual merit, girl students in some branches are more than 33%.
- College has no role to improve girl students admission.
- Among faculty 38% are lady faculty(105 out of 275 are ladies).
- Girl students have separate lounge in every building with attached rest rooms.
- Women faculty have separate rooms with attached restrooms.
- Among other employees women are many.
- Crèche is a big advantage for young mothers.
- Maternity leave is applicable.
- There is woman grievance cell.

6.3.6 Does the College conduct any gender sensitization programs for its staff?

- World Woman Day was celebrated in the College every year starting from 8-3-2014.
- IEEE Women's Day celebrations held every year
- All staff members made aware of the dress code during the appointment and orientation programme. Rules and regulations mentioned in the service book are brought to the notice of the faculty and staff.
- Students are made aware of the dress code during the orientation on the first day of entry to the college and it is also brought to their notice to refer to the rules and regulation of the college.
- 2 Credit course on Gender Sensitivity for II Year II semester students introduced w.e.f. 2015-16 as per the guidelines of the University

6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

- Faculty of the College are participating in various Short Term Training Programmes, Faculty Development Programmes, Seminars, Workshops, Conferences etc organized by University Academic Staff College to enhance their competencies. A minimum of 30% to 40% faculty members are attending these programmes every year conducted by university and other colleges.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

The institutional mechanisms to monitor available financial resources are:

- Governing Body at the college makes major policy decision regarding financial planning.
- The financial transactions and account books are regularly audited.
- The expenses are authorized on the basis of budget approved by Governing Body.
- Annual budget proposals from departments, office, infrastructure, building activity are all approved by Finance Committee and Governing Body keeping in view the likely income.
- Audit statement and income expenditure statements are placed before Governing Body for perusal and approval.
- Financial management is done every year such that at any time the expenditure matches with income.

6.4.2. Does the college have a mechanism for internal and external audit? Give details.

Yes. While the internal audit and scrutiny of every financial transaction is conducted by Account Officer and his team, the external audit of all the transaction is conducted by External Auditing Company of Chartered Accountants appointed by the College.

6.4.3. Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

Enclosed at the end of Criteria –VI

6.4.4. Have the accounts been audited regularly? What are the major audit objections? and how are they complied with?

Yes. Regular audited accounts are put up for approval in the Governing Body. There have been no major audit objections as the internal financial approval mechanism ensures adherence to financial discipline. If there are any minor points, they are resolved by clarification provided by Account Officer and his team.

6.4.5. Is there any provision for the College to maintain the corpus fund? If yes give details.

At the time of approval of programmes by AICTE, Joint deposits on long term basis is required to be made and these cannot be short closed. In effect they are long term deposits. These deposits are with AICTE in terms of lakhs of rupees as per norms.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

Yes, Internal Quality Assurance Cell (IQAC) of the college has been established recently with the sanction of autonomous status by UGC.

Internal Quality Assurance Cell (IQAC) plans and coordinates the execution of all the requisite procedures for academic audit of the existing courses and redesign, if any. In addition to the above, the committee takes up any suggestions from the academic and administrative audit by the inspection committees, including the AICTE, NBA, UGC, APSCHE and private/ corporate institutions.

Annual inspections take place from affiliating University and AICTE. The committees verify all the points normally under academic audit like admission, faculty availability staff-student ratio, Cadre-ratio, staff qualification, infrastructure, performance of students, placements etc.

Every year all such information is posted online to AICTE in Proforma for extension of approval, sanction of increase in intake and additional courses. If there is deficiency in any item, the request is not considered by AICTE.

Methodologies of operations and outcome:

The cell takes into cognizance all the evaluation criteria and the rules and regulations of various inspection committees. It initiates parameter wise, discussion of measures to be taken for the improvement of academic and administrative systems of the institution. In addition to the above, the cell forwards its observations to different departments to improve day-to-day teaching-learning process. The cell submits the minutes of its meetings along with observations, suggestions, if any and resolutions to the respective statutory committees for further processing. The cell undertakes all the activities in coordination with the heads of the departments and administrative office.

IQAC role commences as per UGC guidelines from 2014-15 onwards, with the sanction of autonomous status.

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

- Lesson plans are prepared and reviewed thoroughly including practical tasks.
- Learner centric interaction is implemented to make the student to be proactive and dynamic.
- Advanced audio/visual teaching aids are provided in more than 50% of the classrooms.
- Effective class room teaching, schedule of academic calendar is strictly followed. Heads and Dean-Academics periodically review performance.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes, Internal Quality Assurance Cell continuously reviews the teaching learning process. Internal Quality Assurance Cell is formed with Principal as a Chairman and 10 members are appointed by the Principal. The committee will conduct the audit twice in a year.

IQAC evaluates the teachers on their teaching and research as well as extension performance based on their Self Appraisal Reports (SAR) submitted every year. The evaluation, based on SARs helps in ensuring academic accountability of teachers and monitoring of their major research projects and other academic activities.

The Principal sends commendation letters to the teachers who have done reasonably well, so as to motivate them further.

The teachers are also evaluated by the students and their analysis and the outcome are intimated to the teachers concerned to help in improving their performance.

The Evaluation is also made department-wise by the IQAC. This analysis also helps in drawing a road map of the college for improving teaching learning and research.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC constituted recently will undertake the following quality assurance strategies and process issues.

- Identify the processes needed.
- Determine the sequence and interactions.
- Determine criteria and methods needed
- Ensure availability of requisite information and resources
- Measure, monitor and analyze , achieve planned results and improvement.
- Suggest modifications to academic regulations & Curriculum syllabus and the rest based on the following
- Post pedagogic execution audit by statutory bodies like NBA, AICTE, APSCHE and University committees
- Pre-execution audit
- Review of the teaching processes, teaching models, technical support mechanism and internal assessment performance of the students
- Analysis of the results (with Micro orientation)
- Ascertaining the social and industrial relevance of a particular course to be introduced. It monitors
- Insisting / recording attendance for every class in the first five minutes
- Instant consolidation of attendance in the registers.
- Entering subject wise attendance through software developed for the purpose.
- Posting of letters to the parents of the students for shortage of attendance/marks.
- Displaying the attendance.
- Asking students to submit medical certificates immediately after reporting to college if the absence is on medical grounds.
- Ascertaining the genuine nature or otherwise of the certificates submitted.

The items will be monitored as needed in the Proforma for IQAC annual report. In addition to college level IQAC, each department has a quality cell headed by Head of department and two senior faculty. The department quality cell will activate the quality assurance parameters and plays the role of feedback to IQAC. Most of the items stated above are implemented by college every year. They all will be centralized under IQAC activities now onwards.

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

- Syllabus review and up gradation.
- Improvement of evaluation process.
- IQAC has been constituted to start with Internal Members. However the external members in Board of Studies and Academic Council also have been advising on major issues like Syllabus review and curriculum.
- Improvement of evaluation process by modifying the academic regulations suitably.
- Question paper setters and evaluation involving external and internal members.

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

This being the first year with UGC autonomy IQAC constituted recently, is expected to perform the roles stipulated under its functions. However, institution has a mechanism to record the incremental academic growth of the students admitted from the disadvantaged sections. For every twenty students in the class a counselor is allotted. Teacher counselors record in the counseling register a comment on his/her incremental academic growth. The institution has a mechanism to check and record the marks secured by the disadvantaged sections of the students. For the slow learners remedial and need based coaching will be offered. For such students special coaching and model question papers are provided. The student grievance cell addresses their needs and provides extra facilities.

6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centre's, etc.?

Service rules and policies:

- Printed booklet is available which was approved by Governing Body in 2006
- Promotion is given automatically from Assistant Professor to Senior Assistant Professor once a person completes six year service in college and registers for Ph.D.
- Senior Assistant Professor to Associate Professor is for those who complete pre-Ph.D course work

Recruitment:

- College advertizes in news papers
- After screening applications interviews are held constituting selection committee with internal professors and professors from OU, JNTU
- Interview committee minutes are basis for issuing the Appointment Orders
- Academic reputation is strictly followed
- Internal and external auditing
- Academic and administrative auditing
- Regular meeting of BOS to review subject areas
- Regular meeting of research committee to review research and developmental activities

Enclosure for Item No. 6.4.3 (7 pages)

CVR COLLEGE OF ENGINEERING
Vastunagar, Mangalpalli(V), Ibrahimpatan(M), R.R. District
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2012

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Advertisement Charges	744246	Admission & Special Fee	4053995
Approvals & Affiliations	801439	Course Material Fee	1056356
Bank Charges	35612	Exam Fee	4261941
Books to Students	18989	Hostel Fee	6483123
Bus Expenses	14347176	Interest on FDs	2108432
Ciencia	88166	Misc Receipts	775619
Conveyance	221214	Transport Fee	17193919
Consumables	23815	Tuition Fee	115644224
Corpus Fund Expenses	500000	ISTE A/c	1180
Exam Fee Paid	3757570		
Electricity Bills	3194397		
Examination Remuneration	298537		
Equipment Replacement Fund Expenses	500000		
Employee Gratuity	3564059		
Faculty Recruitment and Training	292683		
Faculty Training & Research	752894		
Faculty Development Fund Expenses	500000		
Fuel for Vehicles	1995155		
Fuel for Generators	1220541		
General Expenses	613568		
Guest Faculty Remuneration	129563		
Hostel Expenses	184080		
Hostel Mess Charges A/c	3904046		
Internet Charges	427515		
Interest	67150		
IETE Membership Fee	82215		
IEEE Fees	113087		
Journals & Periodicals	231415		
JNTU Student Registration Expenses	2103750		
Land Scaping & Gardening	350000		
Medical Expenses	195215		
Maintenance Fund	500000		
NBA Accrediation Fee	985000		
Office maint	104857		
Postage & Telegram	100882		
Printing & Stationery	2067325		
Rates, Taxes and Insurance	494815		
Rent	104000		

NS
Principal
 CVR College of Engineering
 Vastunagar, Mangalpalli (V)
 Ibrahimpatnam (M) R.R. Dist.
 PIN-501 510 (A.P.)

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
R&M Buildings	178340		
Repairs & Maint. - DG Set	271118		
Repairs & Maint. - Equipments	1117345		
Repairs & Maint. - General	297200		
Repairs & Maint. - Vehicles	393434		
Salaries	85537427		
Software License Fee	167046		
Sports Expenses	259525		
Staff Welfare	454770		
Students Welfare	2309925		
Telephone Bills	245022		
Water Expenses	882355		
Depreciation	18154161		
		Excess of Expenditure over Income	4,303,855.00
GRAND TOTAL:	155,882,644		155,882,644

NS
Principal
 CVR College of Engineering
 Vastunagar, Mangalpalli (V)
 Ibrahimpatnam (M) R.R. Dist.
 PIN-501 510 (A.P.)

CVR COLLEGE OF ENGINEERING
Vastunagar, Mangalpalli(V), Ibrahimpatan(M); R.R. District (4)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2013

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Academic Bodies A/c	479,885.00	Special Fee (1) \	3,187,140.00
Accreditation Expenses	14,895.00	Course Material Fee	1,894,112.00
Advertisement Charges	1,081,613.00	Exam Fee	5,121,256.00
Approvals & Affiliations	310,000.00	Hostel Fee	9,533,979.00
Bank Charges	51,618.00	Interest on FDs	3,347,620.00
Books to Students	46,194.00	Misc Receipts	1,382,964.00
Bus Expenses	16,584,739.00	Transport Fee	21,667,530.00
Ciencia	150,405.00	Tuition Fee (2)	137,546,559.00
Conveyance	325,105.00	IEEE A/c	62,000.00
Consumables	477,712.00	CRT Trainig Programme AMCAT	1975182.00
Corpus Fund Expenses	1,120,728.00	CCC a/c	606,401.00
Electricity Bills	3,759,455.00		
Electronic Lab Expenses	12,165.00		
Employee Gratuity	4,467,813.00		
Equipment Replacement Fund	1,120,728.00		
Examination Remuneration	1,209,501.00		
Exam Expenses	37,100.00		
Exam Fee Paid	1,301,252.00		
Exam Stationery Expenses	772,600.00		
Faculty Development Fund	1,120,728.00		
Faculty Recruitment	345,579.00		
Faculty Training & Research	1,022,473.00		
Fire Services Expenses	100,820.00		
Fuel for Vehicles	2,694,514.00		
Fuel for Generators	2,002,968.00		
General Expenses	363,881.00		
Graduation Day	60,834.00		
Guest Faculty Remuneration	112,300.00		
Hostel Expenses	18,580.00		
Hostel Mess Charges A/c	4,794,355.00		
House Keeping for College	1,524,870.00		
House Keeping for Hostel	204,765.00		
Internet Charges	593,460.00		
Interest	36,586.00		

C. Kamala
 Hpn. Secretary
 CBEBABUDDI EDUCATION SOCIETY

[Signature]
 For S.M. K. K. K. K.
 Chartered Accountant
 Proprietor - 2
 No. 210-55

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Journals & Periodicals	236,440.00		
JNTU Student Registration Expenses	69,760.00		
Land Scaping & Gardening	355,938.00		
Medical Expenses	246,612.00		
Maintenance Fund Expenses	1,120,728.00		
Office maintenance	298,091.00		
Postage & Telegram	54,772.00		
Printing & Stationery	2,703,850.00		
Rates, Taxes and Insurance	570,959.00		
Rent	88,000.00		
Repairs & Maint. - DG Set	389,725.00		
Repairs & Maint. - Equipments	1,458,378.00		
Repairs & Maint. - General	11,365.00		
Repairs & Maint. - Vehicles	790,047.00		
R&M Buildings	130,488.00		
Salaries	107,227,505.00		
Security Charges	133,800.00		
Software License Fee	145,910.00		
Sports Expenses	393,603.00		
Staff Welfare	365,676.00		
Students Welfare	2,177,428.00		
Telephone Bills	183,001.00		
Workshop in VLSI	1,753.00		
Water Expenses	662,825.00		
Depreciation	23,258,862.00		
		Excess of Expenditure over Income	5,068,994.00
GRAND TOTAL:	191,395,737.00		191,395,737.00

C. Kamale
Hon. Secretary
 CHERABUDDI EDUCATION SOCIETY

B. K. Hegde
For B.K. HEGDE & Co.,
Chartered Accountants.

Proprietor
M.No. 210455

CVR COLLEGE OF ENGINEERING
Vastunagar, Mangalpalli(V), Ibrahimpatan(M), R.R. District (6)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2014

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Academic Bodies A/c	243,095.00	Special Fee	5,123,137.00
AICTE IIPC revenue expenses	78,710.00	Course Material Fee	1,805,750.00
Advertisement Charges	751,854.00	Exam Fee	6,398,040.00
Approvals & Affiliations	11,543.00	Hostel Fee	12,169,273.00
Bank Charges	41,584.00	Interest on FDs	2,156,525.00
Books to Students	51,319.00	Misc Receipts	2,048,099.00
Bus Expenses	19,385,712.00	Transport Fee	28,000,882.00
Ciencia	668,375.00	Tuition Fee	165,680,618.00
Conveyance	452,456.00	IEEE A/c	69,700.00
Consumables	689,208.00	CRT Trainig Programe AMCAT	3,438,396.00
Corpus Fund Expenses	979,405.00	Rent	157,403.00
DRDO Project Consultancy payments	656,798.00	DRDO Project Consultancy Fee a/c	1,164,433.00
Electricity Bills	5,056,860.00	AICTE IIPC Revenue Receipts	78,710.00
Electronic Lab Expenses	54,827.00	Seminar Grant from AICTE	3,038.00
Employee Gratuity	5,375,415.00	AICTE Grants for FDP in EIE Dept	220,000.00
AICTE Grant-in-Aid A/c	116,227.00		
Equipment Replacement Fund Expenses	979,405.00		
Examination Remuneration	1,607,033.00		
Exam Expenses	273,490.00		
Exam Fee Paid	1,911,167.00		
Exam Stationery Expenses	1,814,563.00		
Faculty Development Fund Expenses	979,405.00		
Faculty Recruitment	415,749.00		
Faculty Training & Research-AICTE FDP	224,821.00		
Faculty Training & Research	1,388,656.00		
Fuel for Vehicles	1,635,873.00		
Fuel for Generators	1,845,116.00		
Fuel for College Buses	2,386,178.00		



For C V R COLLEGE OF ENGINEERING



(C V RAGHAVA)

Chairman

President & Chairman Cont - 2
 CHERABUDDI EDUCATION SOCIETY

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
General Expenses	400,793.00		
Graduation Day	18,678.00		
Guest Faculty Remuneration	33,752.00		
Hostel Mess. Charges A/c	5,933,238.00		
House Keeping for College	2,072,628.00		
House Keeping for Hostel	295,892.00		
Internet Charges	452,361.00		
Interest	206,745.00		
Journals & Periodicals	216,682.00		
Land Scaping & Gardening	427,267.00		
Medical Expenses	319,121.00		
Maintenance Fund Expenses	979,405.00		
Office maintenance	436,596.00		
Postage & Telegram	72,480.00		
Printing & Stationery	1,949,045.00		
Rates, Taxes and Insurance	995,367.00		
Repairs & Maint. - DG Set	184,212.00		
Repairs & Maint. - Buses	345,108.00		
Repairs & Maint. - Equipments	1,375,005.00		
Repairs & Maint. - General	4,170.00		
Repairs & Maint. - Vehicles	350,641.00		
R&M Buildings	2,108,373.00		
Salaries	129,009,975.00		
Security Charges	562,558.00		
Software License Fee	201,261.00		
Sports Expenses	252,121.00		
Staff Welfare	455,745.00		
Students Welfare	2,052,975.00		
Telephone Bills	198,327.00		
Water Expenses	345,616.00		
Depreciation	28,809,153.00		
		Excess of Expenditure over Income	2,626,130.00
GRAND TOTAL:	231,140,134.00		231,140,134.00

For ADDURU REDDY & CO.
Chartered Accountants
CAA. RAVEENDRA REDDY
Proprietor



For C V R COLLEGE OF ENGINEERING

(C V RAGHAVA)
Chairman

President & Chairman
CHERABUDDI EDUCATION SOCIETY

CVR COLLEGE OF ENGINEERING

Vastunagar, Mangalpalli(V), Ibrahimpattan(M), R.R. District

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2015

Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Academic Bodies	363,099.00	Special Fee	6,788,545.00
AICTE Project Expenses	601,611.00	Course Material	2,243,500.00
Advertisement Charges	1,140,894.00	Exam Fee	8,107,660.00
Approval & Affiliations	2,280,415.00	Interest	844,740.00
Audit Fee	84,270.00	Interest on FDs	4,100,634.00
Bank Charges	60,902.00	Misc Receipts	2,651,231.00
Ciencia	251,670.00	Tuition Fee	225,096,586.00
Conveyance	91,628.00	IEEE Fee	92,245.00
DRDO Project Expenses	569,350.00	CRT Fee	3,438,695.00
Entrepreneurship Development Cell-	62,709.00	Rent	288,544.00
Electricity Charges	3,734,585.00	DRDO Project Receipts	1,001,264.00
Exam Expenses	220,620.00	Students Training Receipts	136,860.00
Exam Remuneration	2,239,594.00	Ciencia Sponship	10,000.00
Exam Stationery	239,467.00	IETE Membership Fee	2,200.00
Faculty Development Prog	110,146.00	Insurance Claim Received	10,700.00
Faculty Recruitment	552,046.00	JNTU Exam Fee	28,160.00
Faculty Research IEEE	177,413.00	Oracle Fee	88,680.00
Faculty Training & Research	1,033,357.00		
Freight Charges	29,244.00		
Fuel for DG Set	1,576,300.00		
Fuel for Vehicles	1,763,116.00		
General Expenses	176,656.00		
Guest Remuneration	95,760.00		
House Keeping for College	2,755,498.00		
IEEE Fee paid	83,792.00		
Internet Charges	609,859.00		
Special Fee paid to JNTU	1,932,732.00		
Journals & Periodicals	324,038.00		
Lab Consumables	326,828.00		
Land Scaping & Gardening	585,008.00		
Medical Expenses	271,062.00		
Office Maintenance	448,343.00		
Postage & Courier	87,876.00		
Printing & Stationery	3,152,260.00		
R & M Building	184,112.00		
R & M DG Sets	66,649.00		
R & M Equipment	2,087,626.00		
R & M Other Vehicles	260,687.00		
Rate & Taxes & Insurance for-	201,417.00		
Rates & Taxes	321,529.00		



Expenditure	Amount (Rs.)	Income	Amount (Rs.)
Salaries	142,437,450.00		
Security Charges	796,660.00		
Software License	1,367,935.00		
Sports Expenses	389,822.00		
Staff Welfare	1,031,450.00		
Student Awards	55,000.00		
Student Traing Payment	2,128,422.00		
Student Welfare	980,851.00		
Telephone Charges	211,761.00		
Travelling Expenses	146,683.00		
Water Bill	237,000.00		
Depreciation	29,711,809.00		
Excess of Income over Expenditure C/d	44,281,233.00		
Total	254,930,244.00	Total	254,930,244.00

Criterion VII: Innovative Practices

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

- The college has given utmost importance to eco-friendly environment in the campus and funds are allocated in the annual budget for proper maintenance and beatification of campus.
- A qualified and experienced horticulturist takes care of developing and maintaining greenery. The green cover encompasses 30% of the campus land area with various shady trees alongside the lush green lawns.
- The college has taken its share of social responsibility in reducing carbon emission through renewable energy methods like solar generation, solar water heating and optimizing the use of fossil fuels wherever possible. Hence, no separate green audit is conducted.
- The College and Hostel is covered with a number of trees.
- A number of lawns are equipped with water sprinklers.
- To enable proper waste reduction, Recycling water plant is installed in the campus where the waste water is recycled and used for campus irrigation.



Solar PV Plant on roof top of PG block



Solar water heating system on Boys hostel

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- 7.1.3 With the increasing energy demands College took an initiative to generate and utilize eco-friendly energy in the campus. Grid connected Solar PV Plant installed in the college on roof top of various blocks, operating now to produce 280 kW capacities with local utilization without battery backup. A part of our campus load has been supplied by this solar power. The technical details and reduction in carbon emission, etc.... of the installed power plants are as follows.

Name of the Sub Plant	Installed Power	Date of Commencement of Plant	Energy produced as on date (kWh) As on 10.12.2015	Reduction in CO ₂ Emission (Tonnes) As on 10.12.2015
CVR PG Block	120.00 kWp	03.03.2014	331,462	182
Single Axis Tracking	40.00 kWp	18.01.2015	69,160	38
Library	20.00 kWp	23.02.2015	25,334	14
Single Axis Polar Tracking	40.00 kWp	11.03.2015	58,881	32
CVR CS Block	60.00 kWp	22.10.2015	23,205	13
Overall Plant Capacity	280.00 kWp	---	508042	279

- The cost of the project is Rs. More than 2 crores. □ The plant would generate approximately 1.5 Lakh units every year to that extent the electricity board gets relief.

The very first plant installed in the campus was on PG Block and its capacity is 120 kWp. It is of Seasonal tilting type. Later 40 kWp solar PV plant has been installed on rooftop of Main Block which is of single axis tracking type. Horizontal trackers typically have the face of the module oriented parallel to the axis of rotation. A long horizontal tube is supported on bearings mounted upon frames or pylons. The axis of the tube is on a north-south line. Panels are mounted upon the tube and the tube will rotate on its axis to track the apparent motion of the sun entire day. Next we had Horizontal axis with tilted modules for 40 kWp capacity on the Main Block, Instead of having zero degrees; these modules will have tilt of 10°. This plant is able to generate 15% more than the seasonal tilt one.

- Two Solar water heaters which are of 2500Lts capacity each are installed on roof top of Hostel Block .Such two storages totally 5000Lts of water is readily available for bathing and the usage in hostel .This facility has allowed to us to withdraw energy demand of 4 geasers which will consume around 16kw . This shows our dedication towards the dependency on green power harvesting which will send a sign to the coming generations, our students. Besides education , we also inspire our students for social responsibility and contributing our hand in the green growth of the society.

Energy conservation:

- Energy saving techniques are implemented. The lights and fans are switched off by floor peons or staff after completion of the last lecture of the day. Fans and lights in the staff rooms are switched off when the faculty moves out.
- Created awareness among the staff and students on energy conservation.
- The institute propagates the importance of energy conservation by intimating staff and students to turn off the fans and lights in hostel and college whenever not needed.
- Proper supervision is carried out by concerned authorities (single switch is used to switch off classroom power supply for fans and light points).
- Awareness programme is conducted periodically for elaborating the importance of water resource and advised to close the tap water whenever not needed.
- The use of transparent glass windows provides natural light in all classrooms.
- Classrooms are constructed with sufficient cross ventilation and light so that the use of electricity can be minimized.
- The last student who leaves the class room puts off the switches in the class room
- Tanks are filled with water by water pumps. Initiatives are taken to turn-off the motors automatically when the tank is filled.
- There are large numbers of computers in different labs. LCD monitors are used in the labs to consume less energy. Most of the computer peripherals are modernized and updated.
- The water heaters in the hostels are also operated with solar power.

Water harvesting

- To sustain the ground water availability the Institution has adopted rain water harvesting system.
- All open terraces are fitted with collection pipes which collect rainwater and sent to the ground through designed drains

Check Dam Construction

- The students of the college may be taken to the places of check dam areas and they should be allowed to learn how the check dams are constructed and maintained.
- Check dams are useful for the utility of the rural people at the same time it may create awareness in the students.

Efforts for Carbon Neutrality

- The college has made arrangements for the parking at a separate ground inside and outside the campus boundary.
- The students park their vehicles at the college gate in the parking place provided by the college in order to keep the college environment pollution free.
- This helps in keeping the campus clean as much as possible. The college has taken up preventive measures to check the emission of carbon-dioxide.
- The dead leaves and the waste papers are not allowed to be put on fire.
- The leaves are buried in the soil itself. Waste materials are off in dumping grounds of Campus.

Plantation

- Tree plantations are organized regularly to create clean and green campus.
- The institute has planted and maintained different varieties of flowering trees, ornamental trees and shrubs to keep the institute free from pollution.
- Care is taken for the surveillance of old and unhealthy trees.
- Depending on the tree conditions, appropriate risk mitigation measures (such as pruning, removal of wilted branch, treatment of pest and disease, and cabling and propping to support trees) are prescribed.
- NSS coordinators and Physical Directors along with site maintenance staff organizes tree plantation internally and externally from time to time.
- In 2014, November month, under the programme of 'Swachh Bharath', many trees have been planted in the campus by the students.

Hazardous waste management

- The generation of construction and demolition waste in urban areas is increasing at an alarming rate and is likely to form a sizable fraction of urban solid wastes. Officially the building debris is expected to be dumped in pre designated dumping area.
- The vegetable waste in the hostel and canteen are hazardous and trucks are being arranged to dispose them regularly to keep the campus clean. The waste water from toilets is recycled and used for campus irrigation.

e-waste management

- As the college is more than 14 years old, The computers (PCs) which are purchased earlier were replaced with updated configuration. P-III and old PCs are supplied to schools of near by village for free and our students and staff went and given training to students and teachers of those schools on how to use them.
- Still there is a sharp waste of few computers and peripherals. It is unavoidable to dispose them to the scrap merchants and these are replaced anyway with new ones.

7.2 INNOVATIONS

Internal Quality Assurance System

7.2.1 Has the institution adopted any mechanism/ process for internal quality checks?

The college has adopted mechanism / process for internal quality checks through departmental and college administration, which supervise and monitor the conduct of academic and administrative activity in regular fashion. Various mechanisms / processes adopted are:

- 1) Ensuring effectiveness in Teaching;
- 2) Uninterrupted Teaching;
- 3) Effective learning
- 4) Daily attendance monitoring of students;
- 5) Ensuring uniform course coverage;
- 6) Effective evaluation; and
- 7) Encouragement for R&D

7.2.2 How does the institution ensure the quality of its academic programmes?

Quality of Academic program is sustained through:

1) Ensuring effectiveness in teaching:

Teachers are encouraged to use electronic teaching aids such as OHPs, LCD etc.. wherever necessary. Students' opinion on teaching effectiveness is taken on 2 different occasions. First is at the end of 4 weeks of instruction, second at the time of 9th week of instruction. These two feedbacks are shared with the faculty members concerned so that mid-course corrections can be taken up by the faculty concerned. The faculty members are counseled if their feedback score is not up to the mark. This is ensuring effectiveness in teaching and hence the quality.

In order to make the students self learners, the college has been preparing and distributing course files and lab manuals to all the students.

- a) **Course files** - give the syllabus content, lecture schedules, rudiments of each of the units in the subject concerned. This gives overall idea and also indicates the depth up to which the study is expected to be carried out. The end exam questions (both long answer and short answer types) are also incorporated in the course files so that the students will solve these problems and get an idea of effectiveness in answering the question papers.
- b) **Lab manuals** – these are prepared for each of the laboratory which the students go through and given to every student. This manual gives the list of the experiments to be carried out, the aim of each experiment, the equipment used, the theory and procedure for doing experiment and glimpses of the analysis of the results are indicated. Thus the students are expected to read before hand so that when the students go to the laboratory, they can straight away conduct experiments, analyze the results and draw conclusions.
- c) **Visual aids** – It is well known that 90% of human learning is through eyes, 8% through ears and the rest through other senses such as touch, smell and taste. The college has taken this as a very important observation and use of visual aids where ever necessary. OHPs are provided in every class room and the teachers are trained to use visual aids effectively. LCD Projector is made available in seminar halls and in the respective departments for teachers if they wish to use.

- 2) **Daily monitoring of teachers' attendance** and their taking classes allotted to them as per time table. No class remains free without a teacher any day. If any teacher has taken leave or absent due to any reason, the concerned teacher/HoD is required to make the alternative arrangement for taking his class. This ensures that students are provided instruction by teachers' whole day without a gap. This ensures discipline and also helps completion of syllabus in time.

3) **Ensuring effective learning**

In the autonomous mode of CVRCE, mid tests are conducted 3 times in a semester which is leading to better concentration on the part of the students to understand and assimilate the subject. Besides this, 3 assignments are being given in each semester in each subject so that the students will have to do similar study for his/her end examinations which promotes student centered learning.

A novel initiative is also taken for giving some weightage to attendance. In the UG programme, where the sessional marks are 25, 2 marks are allocated for attendance and 3 marks for the assignment submission. This is promoting students' attendance enormously and hence the academic environment is improving.

- 4) **Daily monitoring of attendance in each class of each student** and reporting the same to parents. Problems of continuous absence of anyone is also taken up with their parents. Quite often we call the parents for advising them on seriousness of shortages in attendance which may result in detaining of the student, causing loss of an academic year.
- 5) **HoDs monitor the progress of course coverage** on each theory and practical class, thus ensuring uniform course coverage matching with the Mid-test requirement. HoDs make sure that tutorials and assignments are regularly conducted as per time schedules. The college ensures maintenance of exam schedules for Mid-test as well as semester examinations.

6) **Effective evaluation:**

As stated above, the evaluation in each theory subject is as follows:

Sessional marks -	25 (includes 3M for assignment+2M for attendance)
End semester Exams -	75
Total -	100

7) **Encouragement for R&D:**

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

- 1) Teachers are given 6 months paid leave to complete their work and in addition to that Rs.60,000 as research incentive is given. Further Rs.75,000 is given in three stages during their Ph.D work.
- 2) Encouragement for publication of papers in international journals based on the impact factor of the journal: Registration fee up to Rs.3000 and TA & DA are given for presenting their papers in conferences. For published paper in a peer reviewed journal incentive of Rs.10,000 is given.
- 3) Encouragement for publication of papers in the CVR Journal: Selected papers will be rewarded with Rs.10,000.
- 4) IEEE membership and subscription with all transactions to access: Senior professors of the Department are given IEEE membership by the college and all transactions are subscribed to library which is helping all the teachers and PG students to use them for their research work.

- 5) There are about 40 teachers doing Ph.D registering with Osmania University, JNTUH, and UOH too.
- 6) Eight teachers received their Ph.D degree recently and few teachers submitted their thesis for review.

This is helping to promote research culture in the college among the teaching community which will definitely have a bearing on the teaching process.

8. Describe the strategies evolved in promoting innovations in teaching, learning and evaluation?

The main strategies for innovation in teaching learning and evaluation are as follows:

- a) Updating the curriculum content to match with the requirements in job market, national priorities, and global direction in technological development.
- b) Creating a conducive teaching learning environment with class rooms equipped with modern tools like visual facilities, good ambience in the class rooms, continuous monitoring of progress in lecture schedules matching with the examination pattern.
- c) Regular feedback from students on teaching effectiveness is paving the way for mid-course corrections through counseling.
- d) Creating modern supporting infrastructure like library equipped with, digital library, which provide online access to large number of national/international technical journals. Wi-fi, intranet, internet are made available in the campus.
- e) Well defined rules and regulations of conducting examination and maintaining high level of confidentiality through various measures from the start of paper setting to the end of declaration of results. The scheme of evaluation includes increased number of assignments, mid-sessional tests and weightage given to attendance. This has influence on effectiveness in learning.
- f) A right balance in internal and external examinations (25 & 75 Marks respectively)

9. Elucidate some of the innovations in research and extension? What initiatives have been taken by the institution to give a significant thrust to research and development in the programmes?

1. Encourage the staff for applying research projects to funding agencies like AICTE, DRDO, CSIR, DST and ISRO etc.
2. Encourage all the staff to register for Ph.D. qualification and publish papers in conferences/journals. Rs.75000 is given in three stages during and after completion of their Ph.D work and also 6 months paid leave along with Rs.60,000 as research incentive to complete their work. Further, staff members are given TA/DA, registration fee, etc. to attend the conferences to present the papers. The faculty are given cash incentives for publishing research papers in national and international journals including CVR College journal.
3. The faculty is provided adequate time/OD to interact with external guides for their research work. Every teacher spend 2 hours extra in the college (after college hours) in a week to accelerate their work. One weekly-off is given to the teachers pursuing their Ph.D.
4. The college invested adequate funds in developing infrastructure of test equipments, hardware, software tools (beyond practical labs requirement of curriculum) to support internal R&D and project work.
5. Arranging guest lectures by the eminent professors from Universities, IITs and researchers from Industries and R&D organizations.
6. All the departments in the institution conduct seminars, workshops, conferences in their areas of academic interests on regular basis for the benefit of staff to engage themselves in research activity.

10. What mechanisms have been developed by the institution for quality assurance within the existing academic and administrative system?

The mechanisms used for quality assurance are:

1. Student feedback at regular intervals.
2. Parent – teacher interaction.
3. Departmental committee meetings
4. R&D and consultancy cell is created to monitor the research activities going on in the department.
5. Student activities co-ordination committee is formed to monitor various curricular, co-curricular and extra curricular activities organized by the students.
6. Library and Learning Resources Committee is formed to purchase latest books subscribe quality journals, establish digital library, and create centralized learning resources.
7. Disciplines, Anti-ragging Committees are formed to create discipline among the student community.
8. Administrative support to a student with regard to their scholarships and privileges given by the Govt. and their implementation, addressing their grievances, and regard interaction with their parents etc are dealt with administrative staff with well set rules and regulations. For this purpose different sections have been created in the administration to handle these activities and resolve them.

11. What are the functions carried out by the above mechanisms in the quality enhancement of the institution?

The functions of various mechanisms are detailed hereunder:

1. Feedback is taken regularly to monitor and improve the teaching process.
2. College conducts parent-teacher meetings so that the parents can learn about their ward's progress and attendance. The parents also give their opinions on various aspects of institutional functioning.
3. The quality enhancement function of Departmental Committee proactively work for finding out the gaps and need for improvements in various activities of the department such that quality and standard of teaching learning process and R&D activities and infrastructure will be improved year to year.
4. Members of Board of Studies and faculty members in respective departments review the technical content of each subject and the need for change at unit level or topic level to improve the content for future curriculum development.
5. Discipline, Anti-ragging Committee works like the watchdog on daily basis about the issues on discipline within the campus. Anti-ragging aspect is extensively monitored in the first semester of academic year with deployment of staff in the college buses, boarding points etc, near the canteen and vulnerable points within the campus toward against any attempt of ragging or harassment. The students of II, III, IV year are not allowed to mix with I year students. Allocation of Class rooms for I year students are arranged isolating from senior students in exclusive I year block.
6. Each administrative section is responsible for conducting their activities within prescribed directives, rules and regulations with the sense of service to students. Every attempt is made that transaction between student and concerned department is like single window service.

12. What role is played by the students in assuring quality of education imparted by the institution?

The students are well received the initiatives taken by the college, and is reflected in regularity, performance in mid and external examinations, placements and admission in to master's program in India and abroad.

13. What initiatives have been taken up by the institution to promote best practices in the institution? How does the institution ensure that the best practices have been internalized?

- Quality professional education with relevance to practical exposure through labs, workshops, local visits, educational tours, mini projects and final year projects are created to improve professional skills.
- Teachers pursuing research are given great encouragement, by giving six months paid leave and Rs.60,000 as research incentive. Further Rs.75000 in three stages during and after completion of their work.
- Financial Assistance for Paper presentations: Registration fee upto Rs.3000 and Travel expenses and DA is given to the teachers who present their papers in conferences.
- Incentives for publications in national and international journals. Rs.10,000 is given as reward if they contribute paper to CVR journal which is published by the college annually.
- Students are given academic prizes, gold medals for their achievements. They are given registration fee and TA & DA for their contributions to research publication and presentation.
- Its unique in this college, Crechie (spacious hall with all facilities) is provided with 6 Aayas to take care of the young children of faculty members.
- Campus recruitment training is offered by the institution and bears 50% of fee charged by the training agencies.
- Commitment of excellence by subscribing to journals, online access on research journals for the benefit students and faculty members.
- 280 kWp solar power plant is installed in the campus and is functioning very well. This is an example of making eco-friendly campus. Approximately 1/3 rd of the power required by the college is met by the plant.
- Utilizing the incentives for Ph.D work, 15 faculty members of college have successfully completed their Ph.D work. Another 37 faculty members are at different stages of completion of their Ph.D work.

7.3 Best Practices

BEST PRACTICE-1

1. Title of the Practice

Inculcating the Spirit of Research among Faculty for a Progressive Technological growth

2. Objectives of the Practice

- To improve the teaching learning process
- Improve quality in teaching and UG and PG projects
- Publish papers in refereed International Journals and Conferences
- File patent applications in market-dependent countries
- Assert relationship with multi-national research labs
- Submit proposals to several funding agencies

3. The Context

Research is a never ending quest for knowledge, which may be used to promote progress for the society. Today's world is rapidly developing giving way and scope for new research initiatives to have a still better life. To keep up one self in pace with the growing needs and demands has become most essential parameter. To meet such demands a continuous research and development of new products and projects has become the need of the hour. This motivated the college to strengthen R&D activity that focuses on various independent domains and encourages multi disciplinary research.

4. The Practice

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

- 7) Teachers are given 6 months paid leave to complete their work and in addition to that Rs.60,000 as research incentive is given. Further Rs.75,000 is given in three stages during their Ph.D work.
- 8) Encouragement for publication of papers in international journals based on the impact factor of the journal: Registration fee up to Rs.3000 and TA & DA are given for presenting their papers in conferences. For published paper in a peer reviewed journal incentive of Rs.20,000 or 10,000 is given based on the quality of the journal.
- 9) Encouragement for publication of papers in the CVR Journal: Selected papers are rewarded with Rs.10,000.
- 10) IEEE membership and subscription with all transactions to access: Senior professors of the Department are given IEEE membership by the college and all transactions are subscribed to library which is helping all the teachers and PG students to use them for their research work.
- 11) Partial relief from teaching when teachers get funding from R&D agencies.
- 12) PCS with internet and wi-fi facility for all teachers who are pursuing research.

5. Evidence of Success

Owing to the hard work done by the members of faculty, the following achievements have taken place in the Organization

No.of teachers availed the facility and obtained their Ph.D: 05

No.of teachers availed the facility and pursuing their research: 22

No.of international publications by the faculty: More than 40

No.of national publications by the faculty: More than 25

No.of funding projects: 02

There is a tremendous improvement in teaching learning process as the faculty is exposed to latest areas of their topic of research. Further they are able to help the faculty who are fresh to initiate research. Good number of teachers got admission for Ph.D at various universities.

6. Problems Encountered and Resources Required

* Trying to inculcate the habit of doing research among many faculty which helps them to grow and college too.

* They are given less teaching load and weekly-off if they complete Pre-Ph.D. Recruiting additional teachers to compensate causing financial burden.

* More PG courses are introduced recently so that teachers can teach advanced subjects which helps them in their research. Trying to get qualified and experienced teachers to fill the gap.

* Industry institute interaction should be improved. Identified some industries and getting tied up to improve quality in research.

7. Notes:

The college management and Principal have a strong vision and believe that the teaching and research must go together. They are constantly encouraging the teachers of all Departments to register for Ph.D and strive hard to publish papers, do some experimental work and submit thesis. No college in Hyderabad is permitting teachers to go on paid study leave for more than 6 months. In addition to that, teachers are given incentive for their publications (no bar on number).

The details of the College Principal:

8. Contact Details

Name of the Principal: Dr. Nayanathara. K.S

Name of the Institution: CVR College of Engineering

City: Hyderabad

Pin Code: 501510

Accredited Status: Reaccredited by NBA

Work Phone :

Website: E-mail : www.cvr.ac.in

Mobile:

Best Practice- II

1. Title of the Practice

Enhancing the employability of engineering graduates

2. Objectives of the Practice

- * To initiate training to all the students when they are in 2nd Year of study with the slots provided in the regular time table.
- * To conduct Seminars and Guest Lectures by an experienced HR faculty.
- * To provide material prepared by experts.
- * To train the students in the fields of soft skills, Communication skills, Intrapersonal skills and preparing them to face interviews and get better placement.

3. The Context

Most of the students have vernacular back ground who have come from villages. Communications in English is a big challenge for them. Many of the students do not have basic concepts of the subjects as they were not taught about the importance of basic concepts at Intermediate level. Students are not aware of the skills required for employability.

4. The Practice

We have introduced a value added course on “Verbal Ability, Logic and Reasoning”, “Quantitative Ability” in the curriculum B.Tech 2nd year. The topics covered in this course, will enable the students to track the online-assessment test conducted by various companies for campus recruitment process. It also helps the students in competitive exams such as GATE, GRE, GMAT etc.

We have allotted special slots in B.Tech 3rd year time-table, II semester for “Soft Skills Sessions” by corporate experts. These sessions will help the student in attending HR Interviews.

We conduct Intensive Campus Recruitment Training (CRT) sessions for all the III-B.Tech Students during their summer vacation. Experienced in-house teachers conduct the classes on concepts and fundamental principles. These sessions will help the students to crack technical interviews during campus recruitment. Further it changes mind set from student attitude to Corporate mind set, take responsibility and deliver, time management and ensure clearing all backlogs by 3 - II to be eligible for placements.

Mock Interviews and Case based GD's, Leadership Talks and competitions also conducted on regular basis to help students understand and analyze real time issues in corporate and Methods and procedures to handle problems effectively.

There are many programmes conducted by keeping above objectives for the students. Few are listed here under.

- Organized Infosys High Impact program for 1st year students
- Organized Mock interview sessions in association with Virtusa during CIENCIA 2k14
- Multiple workshops for 3rd years by in TCS as pre placement talk
- Deloitte Cyber Security Competition
- Infosys Aspirations 2020
- TCS Eginix competition
- TCS Code Vita, and many more....

5. Evidence of Success

The Implementations of this best practice has resulted in high success in the form of increasing in the number of students placed in various companies when compared to the previous years of recruitment.

More companies have opted our college students for both off-campus and on-campus drives.

Quality of intake has also been improved both in B.Tech and M.Tech.

6. Problems Encountered and Resources Required

There are many students from villages with poor financial background. To encourage them to take CRT training 50% of the training cost is borne by college management. Due to this practice the experienced faculty from English & Mathematics of our college were relieved from part of teaching their regular class work. Additional faculty were recruited to meet the requirement.

7. Notes

College has put whole-hearted efforts and striving hard to see that majority of the students are placed every year through campus recruitment. Placement office has got excellent team to fulfill the wish of the college management and Principal. There is a tremendous improvement in placements in the college with reasonably good packages.

8. Contact Details

Name of the Principal: Dr. Nayanathara. K.S

Name of the Institution: CVR College of Engineering

City: Hyderabad

Pin Code: 501510

Accredited Status: Reaccredited by NBA

Work Phone:

Website: E-mail: www.cvr.ac.in

Mobile:

Any other information:

The College also promotes co-curricular activities like Seminars, Workshops, Essay writing, Elocution, Debating Quiz Competitions, Paper Contests, encourages students to enroll themselves in various technical clubs (Electrocruise, Technolites, CSI, CEA, MEA, ITA, EIEA / groups (Electronics Club, IEEE, IETE, ISTE students chapter) Sports competitions and many cultural programmes such as CIENCIA, IEEE day, etc., are conducted. Photographs of few events conducted by various clubs in the college are given here under.



Guest lecture on “PLANNING AND CONSTRUCTION OF HYDRO POWER PROJECTS”
CHIEF GUEST: ER. M.V. RAMANA MURTHY, EXECUTIVE ENGINEER, APGENCO, HYDERABAD (ON 27TH DECEMBER 2013)



Industrial tour by Civil Engineering students in December 2013 at Bangalore

WORKSHOP ON “RECENT DEVELOPMENTS IN



CONSTRUCTION PRACTICES-22nd Sept 2015 by CEA



Dr. Pradeep, Asst. Prof, IIT Hyderabad delivering a lecture on Smart Grid - Organized by Technical Association of EEE - Electrocruiase



Prof. L. C Siva Reddy Vice-Principal felicitating Dr. Pradeep, IIT Hyderabad



Enlightened talk by Sri Gopala Krishna IAS during Michael Faraday's Memorial Celebrations



Sri. M. Gopala Krishna, IAS felicitated by Dr. A. D. Rajkumar, Dean Academics



Professors are curiously watching the students progress on the task given



2nd Year EEE students participating in the workshop-organized by their senior students



IV year students visited Central Power Research Institute (CPRI), Hyderabad, Sep-2014



III year students visited 400 KV Substation Mamidipally, Hyderabad, Sep-2014



III Year Students Cleaning Computer Lab



IIIrd Year Students arranging the infrastructure

Some of the following items also we feel the best practices in the college.

- 1) Students get community orientation, personality development and value orientation through lectures from invited guests from other national/international institutions and voluntary organizations.
- 2) NSS Unit of students, an organization known as “Street Cause” and “Helping Hearts” are existing in the college, which are engaged in social development activities.
- 3) Students of EEE visited the Govt Schools in near by village Kongar kalan and conducted Swachh Bharat Activity.
- 4) Students of Electrocruise conducted guest lectures on Moral values, communication skills, computer education, awareness on swine flu, etc for the school students in near by schools.
- 5) Students of ECE visited the schools and conducted computer education classes for students.
- 6) Students of the college donates blood to the needy on regular basis.
- 7) Donation of computers to nearby schools and training teachers is also a satisfaction of community service.
- 8) Looking at the damaged condition of nearby village, Mangalpalli roads, college donated Rs. 3 Lakhs for road repair instead of waiting government sanction of funds is an example of concern of college for neighborhood.

EVALUATION REPORTS OF DEPARTMENTS

E.1. CIVIL ENGINEERING

1. Name of the Department & Its year of Establishment:

Name of the Department : **Civil Engineering**
 Year of Establishment : **2011**

2. Name of the Programme / Courses offered (UG, PG, M.Phil., PhD, Integrated Masters and Integrated PhD, etc.) :

S.No	Name of the program offered	Remarks
1	B.Tech (Civil Engineering)	4 year B.Tech (Full Time) offered from 2011 onwards
2	M.Tech (Structural Engineering)	2 year M.Tech (Full time) offered from 2014 onwards

3. Interdisciplinary courses and departments involved:

Department of Civil Engineering has been effectively utilizing the academic curriculum flexibility with the institution attaining autonomous status from the affiliating university i.e. JNTUH for a period of 3 years from 2011-12 to 2013-14. UGC has accorded autonomous status for six years from 2014-15 onwards. From the academic year 2011-12 onwards there has been revision of curriculum as approved by Board of studies and Academic Council. Up to 2014-15, semester system was followed by the institution as submitted earlier. Choice Based Credit System has been implemented from academic year 2015-16 approved by the Board of Studies and the Academic Council.

S.No	Subject Code	Subject Name	Year & Semester	Department offered	Credits
1	12MT101CV	Mathematics - I	I - I	Humanities & Sciences	5
2	12EG101CV	English	I - I	Humanities & Sciences	4
3	12CH101CV	Engineering Chemistry	I - I	Humanities & Sciences	4
4	12CS101CV	Problem Solving Through 'C'	I - I	Computer Science and Engineering	3
5	12CH131CV	Engineering Chemistry Laboratory	I - I	Humanities & Sciences	2
6	12CS131CV	Computer Programming Laboratory	I - I	Computer Science and Engineering	2
7	12EG131CV	English Language and Communication skills Laboratory I	I - I	Humanities & Sciences	2
8	12ME101CV	Engineering Drawing –I	I - I	Mechanical Engineering	2
9	12ME/IT132CV	Engineering / IT Work shop	I	IT	2
10	12MT151CV	Mathematics - II	I - II	Humanities & Sciences	5
11	12CS151CV	Data Structures through 'C'	I - II	Computer Science and Engineering	3

12	12PH151CV	Engineering Physics	I - II	Humanities & Sciences	4
13	12EG131CV	Engineering Physics Laboratory	I - II	Humanities & Sciences	2
14	12ME151CV	Engineering Drawing –II	I - II	Mechanical Engineering	2
15	12ME152CV	Engineering Mechanics	I - II	Humanities & Sciences	4
16	12EG181CV	English Language and Communication skills Laboratory II	I - II	Humanities & Sciences	2
17	12ME182CV	Workshop Practice	I - II	Mechanical Engineering	2
18	12CS181CV	Data Structures through ‘C’ Laboratory	I - II	Computer Science and Engineering	2
19	12MT201CV	Probability & Statistics	II-I	Humanities & Sciences	3
20	12EE201CV	Basic Electrical & Electronics Engineering	II-I	Electrical and Electronics Engineering	4
21	12EG231CV	Verbal Ability Lab	II-I	Humanities & Sciences	1
22	12ES251CV	Environmental Studies	II-II	Humanities & Sciences	3
23	12EG281CV	Reasoning & Logic Lab	II-II	Humanities & Sciences	1
24	12MG301CV	Managerial Economics and Financial Analysis	III-I	Humanities & Sciences	3
25	12MT331CV	Data Interpretation Lab	III-I	Humanities & Sciences	2
26	12EG381CV	Advanced English Communication and soft skills Laboratory	III-II	Humanities & Sciences	2
27	12MT381CV	Quantitative Ability Lab	III-II	Humanities & Sciences	1
28	12MG40CCV	(Interdisciplinary elective)- Intellectual Property Rights	IV-I	Humanities & Sciences	3
29	12CS40FCV	(Interdisciplinary elective)- Data Base Management Systems	IV-I	Computer Science and Engineering	3
30	12MG40ACV	(Interdisciplinary elective)- Entrepreneurship	IV-I	Humanities & Sciences	3
31	12CS40ECV	(Interdisciplinary elective)- Object Oriented Programming using C++	IV-I	Computer Science and Engineering	3
32	12CS131CV	Management Science	IV-II	Humanities & Sciences	3

4. Annual/Semester/choice based credit system:

B.Tech.Program - Current I year follows Choice Based Credit System (CBCS) while II, III, and IV year follows semester system with credits prescribed for all the subjects as per the academic regulations approved by Department Board of Studies and Academic Council of the college.

M.Tech.Program- Current I year follows Choice Based Credit System (CBCS) while II year follows semester system with credits prescribed for all the subjects as per the academic regulations approved by Department Board of Studies and Academic Council of the college.

5. Participation of the department in the courses offered by other departments:

The following list of courses offered by Civil Engineering departments to the other departments.

S.No	Curriculum academic year	Subject Name	Year & Semester	Departments offered	Credits
1	2011-2012	Elements of Civil & Mechanical Engineering	IV & I	CSE,IT & EIE	3
2	2011-2012	Engineering Drawing	I	CSE,ECE,EEE,EIE,IT & ME	4
3	2011-2012	Engineering Workshop	I	CSE,ECE,EEE,EIE,IT & ME	2
4	2015-16	Fluid Mechanics & Hydraulic Machinery	II-I	EEE	3
5	2015-16	Fluid Mechanics & Hydraulic Machinery Lab.	II-II	EEE	2

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Assistant Professors)

B.Tech. Programme:

Faculty Designation	Sanctioned	Filled
Professors	2	2
Associate Professors	4	3
Assistant Professors	14	27

M.Tech. Programme: Department is offering M.Tech. in Civil Engineering with Structural Engineering Specialization from the academic year 2014 – 15 with an intake of 24 students.

Faculty Designation	Sanctioned	Filled
Professors	1	1
Assistant Professors	3	3

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.)---Teaching Faculty for B.Tech.Program:

S.No.	Name of Faculty	Qualification	Designation	Specialization	No. of years of Experience Teaching/ Industry	No. of Ph.D. Students guided
1	Dr.T.Muralidhara Rao	B.E., M.E., Ph.D.	Professor & Head	Structural Engineering	22	-
2	Dr.N.Narayana	B.Sc., M.Sc., Ph.D.	Professor	Geology	31	-
3	B.Uma Radha	B.Tech., M.Tech.	Associate Professor	Civil Engineering	12	

4	Mr.M.R. Rajagopal	B.Tech, M.E.	Associate Professor	Civil Engineering	18	-
5	Mr.S.Hari Kiran	B.E., M.S.	Associate Professor	Environmental Engineering	09	-
6	Mr.N.Ramanjaneyulu	B.Tech., M. Tech.	Assistant Professor	Structural Engineering	09	-
7	Mr.S.Praveen	B.E.,M. Tech.	Assistant Professor	Transportation Engineering	2.5	-
8	Mr.B.H.M.Chandra Kanth	B.Tech.,M. Tech.	Assistant Professor	Transportation Engineering	07	-
9	Ms.J.Sandhya Rani	B.Tech.,M.E.	Assistant Professor	Structural Engineering	02	-
10	Mrs.Neeraja Pannala	B.Tech., M.E.	Assistant Professor	Structural Engineering	08	-
11	Mr.Yashwanth Pamu	B.E., M.E.	Assistant Professor	Construction Engineering & Management	05	-
12	Mr.K.Ravi Chandra Reddy	B.E.,M.S.	Assistant Professor	Civil & Environmental Engineering	04	-
13	Mrs.S.Jyothsna Reddy	B.Tech, M.Tech.	Assistant Professor	Infrastructue Engineering	0.5	-
14	Mr.B.Sujeeth	B.Tech, M.Tech.	Assistant Professor	Construction Engineering & Management	2.5	-
15	Mr.L.Vishnu Vardhan	B.Tech, M.Tech.	Assistant Professor	Geotechnical Engineering	1.5	-
16	Mr.C.Sai Ram	B.Tech, M.Tech.	Assistant Professor	Structural Engineering	0.5	-
17	Ms.M.Monica Sharon	B.Tech, M.Tech.	Assistant Professor	Transportation Engineering	0.5	-
18	Ms.P.Divya	B.Tech, M.Tech.	Assistant Professor	Transportation Engineering	--	-
19	Mrs.M.Sharmistha	B.Tech, M.Tech.	Assistant Professor	Construction Technology & Management	--	-
20	Ms.A.Sravanthi	B.Tech, M.Tech.	Assistant Professor	Transportation Engineering	--	-
21	Ms.B.Sharanya	B.Tech, M.Tech.	Assistant Professor	Highway Engineering	--	-
22	Mr.B.Durga Prasad	B.Tech, M.Tech.	Assistant Professor	Geotechnical Engineering	--	-
23	Ms.P.Suma Sindhu	B.Tech, M.Tech.	Assistant Professor	Structural Engineering	--	-
24	Mr.D.Yugandhar	B.Tech, M.Tech.	Assistant Professor	Geotechnical Engineering	03	-
25	Ms.M.Hima Bindu	B.Tech, M.Tech.	Assistant Professor	Transportation Engineering	0.7	-
26	Ms.Maragatham	B.Tech, M.Tech.	Assistant Professor	Environmental Science & Engineering	--	-
27	Mr.Mahender	B.Tech, M.Tech.	Assistant Professor	Geotechnical Engineering	--	-

Teaching Faculty for M.Tech.Program:

S.No.	Name of Faculty	Qualification	Designation	Specialization	No. of years of Experience Teaching / Industry	No. of Ph.D. Students guided
1	Dr. B. Srinivas Reddy	B.E., M.E., Ph.D.	Professor	Structural Engineering	34	-
2	Mr.K.Rajendra Prasad	B.E., M. Tech.	Assistant Professor	Structural Engineering	3.5	-
3	Mr.A.Venkat Reddy	B.Tech, M.Tech.	Assistant Professor	Structural Engineering	0.5	-
4	Mr.D.Prudvi Reddy	B.Tech, M.Tech.	Assistant Professor	Structural Engineering	1	-

8. Percentage of Classes taken by temporary Faculty-Programme - wise information:

Civil Engineering department has no temporary faculty; all the faculty members are regular faculty.

9. Programme-wise student teachers Ratio:

B.Tech. Programme (Civil Engineering) : 11.11:1

M.Tech. Programme (Structural Engineering) : 12:1

10. No. of academic support staff (technical) and administrative staff sanctioned and filled.

Staff	Sanctioned	Filled
Academic staff	1	1
Technical staff	3	3

11. No. of faculty with ongoing projects :

Civil Engineering department was established in the year 2011 and the first batch of students passed out in 2015. All the required state-of-art laboratories are established. In addition, equipment beyond the academic curriculum requirements also have been added to carry out research in Structural Engineering, Environmental Engineering, Transportation Engineering and Geotechnical Engineering. Department is in the process of preparing project proposals to submit to various funding agencies such as AICTE, DST, UGC.

12. Departmental projects funded by DST, FIST, DBT, ICSSR, etc.

Civil Engineering department has been established in the year 2011 and the first batch of students passed out in 2015. All the required state-of-art laboratories are established with latest and advanced equipment beyond curriculum to carry out research in different Civil Engineering disciplines. Department is in the process of preparing project proposals to submit to various funding agencies such as AICTE, DST, FIST, DBT, ICSSR and APCOS.

13. Research facility/center with

State recognition : The department becomes eligible to obtain any
recognition only
after two batches complete the four year B.Tech. program.
The first batch of B.Tech students passed out in 2015 and
waiting for one more batch to pass out in 2016 for NBA
recognition.

National recognition :
International recognition :

14. Publications:

Number of papers published in peer reviewed journals, National, International and National and International Conferences:

S.No	Name of the Staff Member	National Journal	International Journal	National Conference	International Conference
1	Dr.T.Muralidhara Rao	01+01(press)	04	12	-
2	Dr.N.Narayana	07		02	
3	Mr.S.Hari Kiran			2	1
4	Mr.N. Ramanjaneyulu			1	
5	Mr.K.Rajendra Prasad			1	
6	Mr.S.Praveen	3			
7	Mr.D.Yugandhar		1		
8	Ms.J.Sandhya Rani	01			
9	Mrs.Neeraja Pannala			1	
10	Mr.A.Venkat Reddy	01+01(press)			
11	Mr.D.Prudhvi Reddy	01(in press)			
12	Ms. B.Sharanya	01			

* Monographs

Civil Engineering department prepares Course files and lab manuals for every semester and distributes to all students. Course file contains Programme Educational Objectives, Programme Outcomes, Detailed lesson plan and Course outcomes along with the study material. The following is list of Monographs prepared by the department faculty.

List of Year wise Laboratory Manuals:

S.No.	Name of the Lab Manual	Name of the Faculty
II B.Tech. I Semester		
1	Surveying Lab-I	N.Ramanjaneyulu/ B.H.M.Chandra kanth
2	Strength of Materials	P.Neeraja/ Sandya Rani
II B.Tech. II Semester		
1	Surveying Lab-II	N.Ramanjaneyulu / B.H.M.Chandra kanth
2	Engineering Geology Lab	Dr.N.Narayana/S.Praveen
3	Computer Aided Design of Buildings Lab	K.Rajendra Prasad / Sandya Rani
III B.Tech. I Semester		
1	Fluid Mechanics & Hydraulic Machines Lab	P.Yashwanth
2	Geotechnical Engineering Lab	L. Vishnu Vardhan

III B.Tech. II Semester		
1	Computer Aided Structural Drafting Lab	K.Rajendra Prasad / Sandya Rani
IV B.Tech. I Semester		
1	Environmental Engineering Lab	S.Hari Kiran/ Ravi Chandra Reddy
2	Concrete & Highway Materials Engineering Lab	S.Praveen / N.Ramanjaneyulu

List of Year wise Course Files:

S.No.	Name of the Course File	Name of Faculty
II B.Tech. I Semester		
1	Surveying - I	N.Ramanjaneyulu/ B.H.M.Chandra kanth
2	Strength of Materials	Mrs.P.Neeraja/N.Ramanjaneyulu
3	Building Materials, Construction and Planning	Dr. Narayana/ B. Sujeeth
4	Fluid Mechanics	P.Yashwanth/ Mahesh Chandrakanth
II B.Tech. II Semester		
1	Surveying - II	N.Ramanjaneyulu/ B.H.M.Chandra kanth
2	Engineering Geology	Dr.N.Narayana
3	Structural Analysis-I	Dr.T.Muralidhara Rao/ K.Rajendra Prasad
4	Hydraulics and Hydraulics Machinery	P.Yashwanth
III B.Tech. I Semester		
1	Design and Drawing of Reinforced Concrete structures	K.Rajendra Prasad/ N.Ramanjaneyulu
2	Geotechnical Engineering-I	L.Vishnu Vardhan
3	Water Resources Engineering -I	K.Ravi Chandra Reddy
4	Environmental Engineering	S.Hari Kiran
5	Structural Analysis -II	K.Rajendra Prasad/ Sandhya Rani
III B.Tech. II Semester		
1	Design and Drawing of Steel structures	K.Rajendra Prasad
2	Geotechnical Engineering-I	L.Vishnu Vardhan
3	Water Resources Engineering -II	S.Hari Kiran
4	Transportation Engineering	S.Praveen
5	Concrete Technology	J.Sandya Rani
6	Advanced Structural Analysis	K.Rajendra Prasad
7	Waste Management	K.Ravi Chandra Reddy
8	Air Pollution and Control	A.Sravanthi
IV B.Tech. I Semester		
1	Estimation and Costing	N.Ramanjaneyulu
2	Pavement Analysis and Design	S.Praveen
3	Retrofitting and rehabilitation of structures	D.Prudvi Reddy
4	Remote Sensing and GIS	P.Neeraja
5	Pre-stressed concrete	Dr.B.Srinivas Reddy
IV B.Tech. II Semester		
1	Construction Technology and Planning Management	M.R.Rajagopal
2	Airport Planning and Design	S.Praveen
3	Advanced Structural Design	Dr.B.Srinivas Reddy

Books Published:

Dr.N.Narayana, Professor of Geology, Dept.of Civil Engineering, had published three text books in the past.

Publications with Impact factor and H-Index:

S.No.	Title of Paper	Journal Name	SJR	Impact Factor (Range/Average)	H-Index	ISSN
1	Fracture Parameters of High Strength Concrete-An Experimental Study (2009)	Journal of Structural Engineering	0.14	0.1	6	0970-0137
2	A Critical Comparative Study of IS: 800-2007 and IS: 800-198(2013)	International Journal of Civil Engineering & Technology		7.929		0976-6308
3	Size Effect of Plain Concrete Beams-An Experimental Study(2013)	International Journal of Research in Engineering and Technology		1.962		2321-7308
4	Ductility of Reinforced Concrete Beams(2016)	CVR Journal of Science and Technology				2277- 3916
5	Performance Evaluation And Efficiency Assessment Of A Waste Water Treatment Plant–A Case Study(2013)	International Journal of Engineering Research & Technology		1.76		2278-0181
6	High Volume Fly Ash-A Boon for Preventing Reinforcement Corrosion(2013)	International Journal of Civil Engineering and Applications		-		2249-426X
7	Settlement due to uniform circular load on finite two layer system(2011)	Geotechnical & Geological Engineering, Springer Journal	0.64	0.91	25	15731529 09603182
21	Manufactured sand- Applications and Properties(2012)	Dept of Mines and Geology, Govt of AP, Visakhapatnam				
22	Evaluation of Rutting Characteristics on warm mix asphalt with inclusion of fibers(2015)	Journal of Material Science				
23	Traffic noise study on Muzaffarnagar byepass(2013)	CVR Journal of Science and Technology				2277-3916
24	Optimization of fly ash content in different grades of magnetic water concrete	International Journal of Research in Engineering and Technology				2321-7308
25	Stabilization of clayey soils using cement kiln waste	International Journal of Advanced Structures and Geotechnical Engineering				2319-5347
26	Paratransit Operations in Roorkee	CVR Journal of Science and Technology				2277-3916

27	Time History Analysis of Building Structures with Water Tank as passive Tuned Mass Damper	International Journal of Research in Engineering and Technology		3.127		2319-11631

1. **Details of patents and income generated** : Nil

2. **Areas of consultancy and income generated** :

Civil Engineering department has been established in the year 2011 and the first batch passed in 2015. All the required state of art laboratories are established. Department is in the process of offering consultancy services to the infrastructural companies and Government agencies in the region. A Testing and Consultancy brochure has been prepared to reach the client requirements and department is looking forward to offer services in the area of Material testing, Structural proof design, Structural audit works, Geotechnical Engineering, Transportation Engineering, Environmental Engineering and Surveying.

3. **Faculty recharging strategies:**

The department is in continuous process of upgrading the skills of the faculty members in the current research areas and also to align themselves with the happenings in the field of Civil Engineering.

- In this process, department encourages faculty members to participate in National and International symposiums, Seminars, Workshops, Faculty Development Programs and Short term courses organized by the institutions of national repute such as IITs, NITs and Universities.
- Faculty is encouraged to pursue higher studies such as doctoral program with a provision to avail paid leave in the advanced stages of research work.
- Faculty is encouraged to present papers in national/ international journals and conferences.
- The department has organized a 2-day National level workshop on “Finite Element Formulations in Civil Engineering applications” on 30th & 31st January 2015.
- The department has organized one-day in-house workshop on “Recent developments in Construction Practices” on 22nd September 2015.

The following is the list of recharging strategies adopted by the department since its inception.

Faculty recharge by organizing the Guest Lectures in the parent Institute:

S.No.	Topic of Guest Lecture	Date	Name of the Guest Speaker	Designation	Organization
1	Planning & Construction of Hydro Power Projects	Dec 27, 2013	Sri.M.V.Ramana Murthy	Executive Engineer	APGENCO, Hyderabad
2	Latest Developments in Concrete Technology	Jan 23, 2014	Dr.M.V.Seshagiri Rao	Professor	JNTU, Hyderabad
3	Recent Developments in Water Resources Engineering-Case Studies	Aug 12, 2014	Dr.K.Srinivasa Raju	Professor	BITS Pilani, Hyderabad
4	Career Opportunities & Employable Skills for Civil Engineers	Sept 22, 2014	Sri.M.Sridhar	Vice President	SEW Infrastructure, Hyderabad
5	Shuttering Systems & Their Significance in Construction Sector	Oct 14, 2014	Sri.P.D.Varadarajan	Vice President	VASCON Engineers Ltd, Pune
6	Behavior of Continuous Structures & Segmentally Constructed Bridges	Oct 17, 2014	Sri.Krishna Sandepudi	Vice President	Aarvee Associates Pvt. Ltd, Hyderabad

7	Smart Cities: Boon for Infrastructure Opportunities.	July 07, 2015	Dr. Amarnath Reddy	Associate Professor	IIT Kharagpur
8	Role of Construction Chemicals in the World of Concrete	July 23, 2015	Er.N Suresh & Mr.G. Ravi Kiran	Technical Engineer & Sales Engineer	BASF, Hyderabad.
9	Cement: An overview of Manufacturing process & properties	Sept 05, 2015	Dr. N Narayana	Professor	CVR College of Engineering

Faculty recharge by attending the Guest Lectures at other Institutes:

S.No	Topic	Date	Delivered by	Venue	Attended by
1	Structure-Foundation Interaction Analysis in Reservation & Reconstruction of Historical Monuments	Dec 13, 2012	Dr.Michael Lisyuk	IIIT, Hyderabad	Mrs.B.Uma Radha
2	Seismic Energy Dissipation Systems	May 9, 2013	Prof.Anil Agarwal, Professor, City College of New York	IIT, Hyderabad	Mrs.B.Uma Radha
3	Seismic Energy Dissipation Systems	May 9, 2013	Prof.Anil Agarwal, Professor, City College of New York	IIT, Hyderabad	Mr.K.Rajendra Prasad

Faculty recharge by attending National and International Workshops:

S.No	Name of the workshop	Dates	Organized	Venue	Attended by
1	International Workshop on "Geotechnical Symposium on Disaster Mitigation in Special Geo-environmental Conditions"	Jan 21 to 23, 2015	IIT, Madras	IIT, Madras	D.D.N.Laxmi Devi
2	Conducted Two Day National Workshop on "Finite Element Formulations In Civil Engineering Applications"	Jan 30 & 31, 2015	CVR College of Engineering	CVR College of Engineering	Total Faculty of the department
3	One day National symposium on "Recent Advances in Pavement Technology"	Mar 13, 2015	MVSR Engineering College, Hyderabad	MVSR Engineering College, Hyderabad	Mr.S. Praveen
4	One day Workshop on "Outcome based Education & Accreditation"	Sept 14, 2015	JNTU, Hyderabad	JNTU, Hyderabad	Dr. T.Muralidhara Rao
5	Conducted One Day In-House Workshop On "Recent Developments In Construction Practices"	Sept 22, 2015	CVR College of Engineering	CVR College of Engineering	Total Faculty of the department
6	Two day International workshop on "Rebooting Infrastructure"	Nov 26 & 27, 2015	CII	Bengaluru, Karnataka.	Dr. Narayana

7	Recent Advances in Civil Engineering	Jan 3 & 4, 2014	ACE Engineering College	ACE Engineering College	Mr. N. Ramanjaneyulu
8	Developments in Earth Sciences and Earthquake Engineering	Apl 25, 2014	CBIT	CBIT, campus	Ms.J.Sandhya Rani
9	International workshop on “Emerging trends in Earthquake Engineering and Structural Dynamics”. Organized by Indian Association of Structural Engineers (IASE).	Dec 19& 20, 2014	Structural Engineering	IIT, Delhi	Mrs. B.Uma Radha
10	Advanced surveying and mapping using total station - hands on practice	Jan 18 & 19, 2013	VNR VJiet	VNR VJiet Campus	Mr. N. Ramanjaneyulu
11	Learning Outcomes	Mar 16, 2013	CVR College of Engineering	CVR Campus	Mr. K. Rajendra Prasad
12	Geopractices-2013	Oct 4, 2013	IGS, JNTUH	JNTUH	Mr.D.Yugandhar
13	Meeting Infrastructure challenges	Oct 23 to 26, 2013	ICI-IWC-2013	Hitex, Madhapur	Mr. N. Ramanjaneyulu
14	One day Workshop on Manufactured sand-its utilization	Sept 6, 2012	Dept. of Mines of Geology Govt. of AP	Vishakhapatnam	Dr. N. Narayana
15	Earthquake Engineering literature survey workshop	July 7 to 16 2011	NICEE	IIT, Kanpur	Mr.B.Mallikarjun

Faculty recharge by attending the Short term courses:

S.No	Name of the Short term course	Dates	Organized	Venue	Attended by
1	Three week professional development program (TDP) on “Geospatial technologies applications in science and engineering research”	Dec 19, 2015 to Jan 08, 2016	Sponsored by Department of Science and Technology (DST)	Gitam university, Vizag	Mrs.P.Neeraja
2	Modelling with Transportation Data (MTD)	June 08 to 12, 2015	IIT Roorkee	IIT Roorkee	Mr.S.Praveen
3	Finite Element Methods in Civil Engineering	May 05 to 09, 2014	Quality Improvement Programme (QIP), IIT Bombay	Quality Improvement Programme (QIP), IIT Bombay	Mr.N. Ramanjaneyulu
4	Open house organized by National information centre of earthquake engineering (Nicee).	Nov 3 to 12, 2014	Structural Engineering	IIT Kanpur	Mrs. B.Uma Radha
5	Structural Engineering Convention 2014, organized by Indian Association of Structural Engineers 5(IASE).	Dec 22 to 24, 2014	Structural Engineering	IIT, Delhi	Mrs. B.Uma Radha

6	Formwork for Concrete Structures	June 17 to 21, 2013	IIT Delhi	IIT Delhi	Mr. N. Ramanjaneyulu & Mr. K. Rajendra Prasad
7	Faculty Development program in Entrepreneurship	June 20 to July 3, 2012	Center for Entrepreneurship Development	ACE Engineering College	Ms.P.Shruthilaya
8	Introduction to Forensic Engineering and Failure analysis	Jan 9 to 13, 2012	NIT, Tiruchirappalli	NIT, Tiruchirappalli	Mr.K.Rajendra Prasad
9	National Level Technical Symposium in Civil Engineering	Mar 18 & 19, 2005	Satyabhama Institute of Science and Technology	SIST, Chennai	Mr.K.Ravichandra Reddy
10	Entrepreneurship Development	Sept 11, 2013	National Small Industries Corporation Ltd	Nalla Malla Reddy Engineering College	Mr.K.Ravichandra Reddy
11	Symposium on selected topics in Geo-technical Engineering	Nov 4, 2010	IGS, Hyderabad & JNTU Hyderabad	JNTU, Hyderabad	D.D.N.L.Devi

Faculty recharge by attending the National / International Conferences:

S.No	Name of the conference	Dates	Organized	Venue	Attended by
1	A national conference on “Recent Trends in Civil Engineering”	Feb 20 to 21, 2015	GITAM Hyd	GITAM Hyd	Ms. Sandhya Rani
2	International conference on “Transportation Planning and Implementation Methodologies for developing countries”, organized by the Transportation Systems Engineering (TSE) group	Dec 10 to 12, 2014	Transportation System Engineering	IIT, Bombay	Ms.P.Shruthilaya
3	One day Seminar on “ Green Cities” on the occasion of World Earth Day – 2014	Apl 22, 2014	The Institute of Engineers India. (IEI)	IEI Main Building, Hyderabad	Mr.S.Hari Kiran
4	One day seminar on Leadership in Energy and Environmental Design	Sept 2013	IEI, Bhubaneswar	Bhubaneswar, Orissa	Mr.S.Hari Kiran
5	Recent Trends in Structural Engineering	Jan 6 & 7, 2012	VNR VJIET	VNR VJIET Campus	Mr.K.Rajendra Prasad
6	International conference on Emerging technologies in Water Reclamation Projects	June, 2009	American Water Works Association	San Diego, California, USA.	Mr.S.Hari Kiran

In addition to the above, the following is the year wise list of faculty members attended Faculty development program organized by the institution under orientation programme for 15 days for new faculty.

S.No	Academic Year	Name of the faculty attended FDP
1	2012 - 13	Mr.N.Ramanjaneyulu Mr.K.Rajendra Prasad
2	2103 - 14	Mr.S.Praveen

		Mr.D.Yugandhar Mr.B.H.M.Mahesh Chandra Kanth Mr.Vamshi Chaitanya Mr.Siva Naga Venkat
3	2014 - 15	Mr.S.Hari Kiran Ms.J.Sandya Rani Mrs.Neeraja Mrs.D.Durga Nagalakshmi Devi Ms.Shruthi Laya Ms.Raja Rajeshwari Mr.Yashwanth Pamu Mr.K.Ravi Chandra Reddy
4	2015-16	1. Mrs.P.Neeraja 2.Ms.B.Raja Rajeshwari 3.Ms.K.Divya 4.Ms.S.Jyothsna 5.Mr.A.Venkat Reddy 6.Mr.D.Prudhvi Reddy 7.Mr.K.Sridhar Reddy

4. Student projects :

- Percentage of students who have done in-house projects including inter-departmental:
Major Projects: During 2014-15, 100 % students have done in-house project work with 15 credits during 4th year – II semester. During 2015-16, 95% students are doing in-house projects in college while the remaining are carrying out their project work with civil engineering construction companies.
- Percentage of students doing projects in collaboration with industries / institutes: 5%
- Mini Projects:** During 2015-16, students have done Industry oriented Mini projects during III year II semester vacation period for a 3 week duration at reputed industries such as Vascon, IVRCL, Hyderabad Municipal Water Supply and Sewerage Board (HMWSSB).

5. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post-Doctoral fellows: Nil
- Students: Ms.L.Mounika (13B81A0143), B.Tech. III year II semester Civil Engineering student has participated in the 52 National Roller Championship- Speed Skating held virar, Maharashtra, on January 21 to 25, 2015.

L . MOUNIKA - CIVIL.A IIIrd YEAR



**Participated In The State & National
ROLLER SKATING**



Ms.L.Mounika has participated in the Hyderabad District Roller Skating (SPEED) Championship -2013, held on October 29, 30 and 31, 2013, at GHMC –International Bank Track. Indira Park &

QUADS RACES	POSITION	INLINE RACES	POSITION	INLINE RACES	POSITION
RINK - I	first	RINK - III	/	POINT TO POINT	/
RINK - II	-	RINK - IV	/	ELIMINATION	/
RINK - II A	first	RINK - V	/	RELAY RACE	/
ROAD - I	first	ROAD - II	/	MARATHON	/

Mint Road has been ranked below:

Ms.L.Mounika has participated in A.P.State (Inter-District) Roller Skating (SPEED) Championship- 2013 ,held from November 14 to 17 ,2013 at GHMC –International Track, Indira Park ,Hyderabad, has been ranked as below:

QUADS RACES	POSITION	INLINE RACES	POSITION	INLINE RACES	POSITION
RINK-I	third	RINK-III	/	POINT TO POINT	/
RINK-II	-	RINK-IV	/	ELIMINATION	/
RINK-II A	third	RINK-V	/	RELAY RACE	/
ROAD - I	third	ROAD - II	/	MARATHON	/

Ms.L.Mounika has also participated in the Hyderabad District Roller Skating (SPEED) Championship -2014, held on October 17, 18 and 20, 2014, at GHMC –International Bank Track. Indira Park & Nature Cure MMTS Station Road, Hyderabad, has been ranked below:

QUADS RACES	POSITION	INLINE RACES	POSITION	INLINE RACES	POSITION
RINK - I	first	RINK - III	/	POINT TO POINT	/
RINK - II	-	RINK - IV	/	ELIMINATION	/
RINK - II A	first	RINK - V	/	RELAY RACE	/
ROAD - I	first	ROAD - II	/	MARATHON	/

Ms.L.Mounika has participated in Telangana State – 1st Inter District Roller Skating (SPEED) Championship-2014, held on November 7 to 12,2014,at GHMC- Skating Rink, International Brand Track, Indira Park, Hyderabad and has been ranked as below

QUADS RACES	RACE DETAILS	POSITION
RINK - I	300 MTR. TIME TRIAL	first
RINK - II	500 MTR. GROUP RACE	-
RINK - II A	1000 MTR. GROUP RACE	first
ROAD - I	GROUP ROAD RACE	first

6. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

(1) A 2-day National Workshop has been organized on “**Finite Element Formulations in Civil Engineering Applications**”, on 30-31 Jan 2015. Sources of funding for organizing event was met with registration fee and funding by the Management of the college.

(2) A one-day in-house workshop on “**Recent developments in Construction Practices**” on 22nd September 2015. Sources of funding for organizing event was met by the Management of the college.

7. Student profile course-wise:

Name of the Course (refer question no. 2)	Academic Year	Applications received	% Selected		Pass percentage	
			Male	Female	Male	Female
B.Tech. Program	2014 - 15	Admission made by state level EMCET Convener	69.09	30.9	69.23	30.76
	2013 - 14		73.3	26.7		
	2012 - 13		73.3	26.7		
	2011 - 12		75	25		

First batch of B.Tech. Program was passed out in 2015.

Name of the Course (refer question no. 2)	Academic Year	Applications received	% Selected		Pass percentage	
			Male	Female	Male	Female
M.Tech. Program	2014 - 15	State wise centralized admission based on PG CET & GATE	70	30	First batch was admitted in 2014-2015.	

8. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Tech	-	100 %	-	-
M.Tech	-	100 %	-	-

9. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

The first batch of Civil Engineering students have passed out in May 2015 and the details of the students cleared Government Services exams and Higher education programmes admitted are given below for information.

S.No.	Details of Govt.Services Exams cleared/ Higher education programmes admitted	Number of Students
1	Telangana State Public Service Commission (TSPSC)	06
2	Higher Studies	08
3	Software Jobs	05
4	Private Jobs	05

10. Student progression

Student progression	Percentage against enrolled
UG to PG	14.5%
PG to M.Phil.	N/A as the first batch passed out in 2015
PG to Ph.D.	N/A as the first batch passed out in 2015
Ph.D. to Post-Doctoral	N/A as the first batch passed out in 2015
Employed through Campus selection	7%
Employed other than campus recruitment	25.45%
Entrepreneurs	---

11. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	37 %
from other universities within the State	26 %
from other universities from other States	37%

12. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Mr.N.Ramanjaneyulu, Assistant Professor, has registered for Ph.D. at JNTU, Ananthapur in 2015. Ms. Sandhya Rani, Assistant Professor, has registered for Ph.D. at JNTU, Hyderabad in 2016. Few other faculty members are also in the process of applying for doctoral programs at State Universities.

13. Present details about infrastructural facilities

a) Library-Main library has 401 Titles and 2730 volumes text books towards B.Tech. Civil Engineering programme and 68 Titles and 467 volumes towards M.Tech. Structural Engineering programme. Main library also has 17 National level Journal subscriptions to update faculty and students about the recent developments in the thrust areas of Civil Engineering.

In addition to the books in Main Library, Civil Engineering Department has its own internal departmental library which has 66 Titles and 68 volumes of text books towards B.Tech. Civil Engineering programme and 10 Titles and 10 volumes towards M.Tech Structural Engineering programme.

In addition to the above books of the Central library, a purchase order for books of worth Rs.1,27,430/- has been placed. In couple of weeks, these books are likely to be received.

b) Internet facilities for staff and students – The civil engineering faculty are provided with 11 computers with Internet speed of 35 Mbps facility to enable them use internet facility.

c) Total number of class rooms – The Civil Engineering department currently has 07 class rooms for B.Tech. programme, 02 class rooms for M.Tech. programme.

d) Class rooms with ICT facility (Information and Communication Technology) – Class rooms have LCD Projector and OHP facility.

e) Students' Laboratories

S.No.	Name of the Laboratory	
B.Tech Programme		
1	Surveying Laboratory	(10 Expt.)
2	Strength of Materials Laboratory	(10 Expt)
3	Engineering Geology Laboratory	(10 Expt)
4	Computer Aided Drafting Laboratory	(10 expt.)
5	Fluid Mechanics & Hydraulic Machines Laboratory	(10 Expt.)
6	Geotechnical Engineering Laboratory	(10 Expt.)
7	Environmental Engineering Laboratory	(10 Expt)
8	Cement and Concrete Laboratory	(06 Expt)
9	Highway Materials Testing Laboratory	(06 Expt)
M.Tech. Programme		
1	Structural Engineering Laboratory	(10 Expt.)
2	Computer Aided Drafting Laboratory	(10 Expt)

Cement and Concrete Lab and Highway Material Testing Lab together forms as one lab. But these labs are established as two different labs.

f) Research laboratories – One research laboratory has been established for M.Tech.(Structural Engineering) to meet requirements of CAD Lab and to carry out M.Tech project works.

14. Number of students of the department getting financial assistance from College.

Under Graduation students who availed financial assistance from State Govt.							
for the last four academic years (i.e., 2011-2012 to 2015-2016)							
S. No.	Course	Course Year	No. of Students Availed Financial Assistance from the State Govt.				
			2015-16	2014-15	2013-14	2012-13	2011-12
			(Yet to Receive)	(50% Yet to Receive)	(Availed)	(Availed)	(Availed)
1	B. Tech.	I Yr.	59	47	49	27	28
	(CIVIL)	II Yr.	46	48	27	29	0
		III Yr.	48	26	27	0	0
		IV Yr.	26	26	0	0	0
TOTAL =			179	147	103	56	28

Post Graduation Students who availed Financial Assistance from State Govt. For the last two Academic Years (i.e., 2014-15 To 2015-16)			
S. No.	Course	Course Year	No. of Students availed Financial Assistance from State Govt.
			2015-16
			(Yet to Received)
1	M. Tech. (Structural Engg.)	I Yr.	4
		II Yr.	8
	TOTAL =		12

15. Was any assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

India becoming most dependable for qualified experts in Information technology and information technology services sector, technical education was focused on information technology and its allied branches for the past two decades. However this has led to be exponential demand for construction of better infrastructural and building residential neighborhoods. Institution has assessed the need to start UG/PG in Civil Engineering in the following manner.

- It has been observed through EAMCET admission data that, Institutions offering Civil Engineering program are very less in comparison with Information technology and its allied program for the last two decades.
- Shortage of sufficient number of civil engineering graduates for the implementation of infrastructural projects, irrigation and industrial projects.
- Based on the published articles in public media, it is ascertained that there was shortage of number of qualified and eligible candidates for State and Central government organizations such as I & CAD, Panchyatraj roads and buildings etc.
- Need for qualified engineers to meet the demand in housing sector based on 12th five year plan.

16. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

- The coverage of the syllabus and the academic achievements of the students are assessed through mid-examinations, assignments, feedback etc.,
- The faculty members are counseled by the Head of the Department / Director, if there are more number of failures in the subject taught by them.
- Any short comings identified in theory class or practicals are being addressed through guest lecturers / conducting tutorials / printing reference materials (literature or teaching).

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

- Feedback is collected from the students twice in a semester.
- Based on students' feedback, if required faculty is counseled by the Head of the Department to improve teaching skills.
- External experts are invited to conduct seminars and workshops on typical topics of interest in civil engineering.
- Feedback received from Training & Placement Officer during placements at the institution are also discussed and addressed to solve them within the purview of the institution.

c.Alumni and employers on the programs and what is the response of the department to the same?

- Based on the feedback of the employers, the emphasis on certain topics of the subjects has been introduced.

17. List the distinguished alumni of the department (maximum 10)

Roll no	Name	Phone no	Working organization
11B81A0104	Anirudh	9573555417	MBA In Royal Institute Of Chartered Surveyors
11B81A0109	Bhavani	8142483029	Working In TCS
11B81A0111	Karthik	9177535021	Site Engineer in Suchirindia Infratech
11B81A0114	Lahari Reddy	14806164107	Pursuing MS
11B81A0118	Sravanthi	9030475368	Working In MUSIGMA COMPANY
11B81A0119	Nagajyothi	8500826615	Pursuing M-tech
11B81A0126	Pranay	9912500306	Shortlisted In AE,AEE,TOWNPLANNING
11B81A0132	Rama Devi	8801856386	Working In Nebulogic IT Solutions
11B81A0135	Sai Prasad	7569066519	Shortlisted In AE & AEE
11B81A0149	Vaishnavi	8121423928	Shortlisted in AE

18. Give details of student enrichment program (special lectures / workshops / seminar) with external experts.

From the inception of the department students are actively taking part in the technical fest (CIENCIA) organized by the college. In the year 2013-14, Civil Engineering Students Association (CESA) was formed with 2011 and 2012 admitted students and was inaugurated by Dr.E.Saibaba Reddy, Rector, JNTUH. The objective of the CESA is to organize Guest Lectures by prominent personalities from industry and academia in addition to organizing student seminars and technical quizzes. Each academic year two faculty members are assigned to mentor CEA organizers.

Following are the list of Workshops organized by CESA

S.No.	Topic of Workshop Conducted	Date	Name of the Guest Speaker	Designation	Organization
1	2 Day National workshop on “Finite Element Formulations in Civil Engineering Applications”	Jan 30 & 31, 2015	Dr. M Koti Reddy Dr. Ravinder Reddy Dr. Rupesh Kumar	Professor Professor Asst. Professor	CBIT, Hyderabad CBIT, Hyderabad O.U, Hyderabad
2.	One day In-House Workshop on “ Recent Developments in Construction practices”	Sept 22, 2015	Dr K.V.L Subramanyam Er. B.K.Eswar Dr M V Seshagiri Rao	Professor & Head Technical Director Professor	IIT Hyderabad Civil AID Tecnoclinic Pvt ltd. JNTU HYD.



Souvenir release of Two Day National Workshop on
Finite Element Formulations in Civil Engineering Applications



Inauguration of One Day Workshop on
Recent Developments In Construction Practices

Following are the list of Guest Lectures organized by CESA

S.No.	Topic of Guest Lecture	Date	Name of the Guest Speaker	Designation	Organization
1	Planning and Construction of Hydro Power Projects	Dec 27, 2013	Er. M.V. Ramana Murthy	Executive Engineer	Appenco, Hyderabad
2	Latest Developments in Concrete Technology	Jan 23, 2014	Dr.M.V.Seshagiri Rao	Professor Of Civil Engg.	JNTU, Hyderabad
3	Recent Developments in Water Resources Engineering-Case Studies	Aug12, 2014	Dr.K.Srinivasa Raju	Professor	BITS Pilani, Hyderabad Campus
4	Career Opportunities & Employable Skills for Civil Engineers	Sept 22, 2014	Sri.M.Sridhar	Vice President	SEW Infrastructure, Hyderabad
5	Shuttering Systems & Their Significance in Construction Sector	Oct 14, 2014	Sri.P.D.Varadarajan	Vice President	VASCON Engineers Ltd, Pune
6	Behavior of Continuous Structures & Segmentally Constructed Bridges	Oct 17, 2014	Sri.Krishna Sandepudi	Vice President	Aarvee Associates Pvt. Ltd, Hyderabad

7	Smart Cities: Boon for Infrastructure Opportunities.	July 07, 2015	Dr. Amarnath Reddy	Associate Professor	IIT Kharagpur
8	Role of Construction Chemicals in the World of Concrete	July 23, 2015	Er. N Suresh & Mr G. Ravi Kiran	Technical Engineer & Sales Engineer	BASF, Hyderabad
9	Cement: An overview of Manufacturing process & properties	Sept 05, 2015	Dr. N Narayana	Professor	Civil Engg.Dept., CVR College of Engineering



Felicitating Dr.E.Sai Baba Reddy,Professor&Rector, JNTUH, Murthy,Executive in the inaugural function of Civil Engineering Association



Guest Lecture by Er.M.V.Ramana
Engineer, APGENCO, Hyderabad.



Guest Lecture by Dr.M.V.Seshagiri Rao,Professor, JNTU, Hyderabad.



Guest Lecture by Dr.K.Srinivasa Raju, BITS-Pilani, Hyderabad.



Guest Lecture by Er.P.D. Varadarajan, Asst.Vice President,
President

VASCON, Pune.



Memento felicitation to Er.Sridha, Vice

SEW Infrastructure, Hyderabad.



Memento felicitation to Dr.M.Amarnath Reddy,
Engineer,

Assoc.Professor, IIT, KGP,Kolkata.



Guest Lecture by Er.N.Suresh, Technical

BASF, Hyderabad



Guest Lecture by Dr.N.Narayana, Professor,
Dept.of Civil Engg., CVR College of Engineering

- The department also organizes one day industrial visit to the students. Department has organized visit to Geological Survey of India, L&T Construction Skills Training Institute, Nagarjun Sagar Dam, Effluent treatment plant, Visit to Outer Ring Road.

- Department also organizes Guest lectures on thrust areas in the field of Civil Engineering by prominent personalities from industry and academia.
- Students participate in Campus Connect program an industry academia partnership initiated and coordinated by Infosys limited.



Industrial visit to Jeedimetla Effluent Treatment Ltd.,
Bangalore.

Hyderabad



A visit to Traffic Management Centre,



A visit to Geological Survey of India, Hyderabad.



A visit to Bongluru Outer Ring Road, Hyderabad.

19. List the teaching methods adopted by the faculty for different program.

- Regular class work (chalk board, LCD Projector, OHP wherever necessary)
- Tutorials
- Assignments
- Quizzes
- Industry oriented mini projects

20. How does the department ensure that program objectives are constantly met and learning outcomes monitored?

Program educational objectives (PEOs) and Program Outcomes (POs) including course outcome are listed and communicated to all students by including them in the course files and the department Brochures. In addition the following measures are taken to meet with the PEOs of the department.

- ✓ Continuous feedback from faculty by collecting information through faculty appraisal form..
- ✓ Mentoring and guiding the young faculty to meet objectives by organizing faculty meetings at regular intervals.

- ✓ Remedial classes for the weak students.
- ✓ Teaching topics beyond the syllabus.
- ✓ Introducing value added courses in the curriculum.
- ✓ Assessment Students evaluation in the mid exams, end exams , assignments, technical seminars
etc.

Identified Programme Educational objectives (PEO) are given below for information.

Programme Educational Objectives (PEOs):

Program Educational Objectives are broad statements that describe the Career and Professional

accomplishments that the program is preparing graduates to achieve.

PEO 1

To prepare students to excel in Post-Graduate programs or to succeed as a successful Civil Engineer or in Technical professions through rigorous training during the program.

PEO 2

To provide the students with a solid foundation in Mathematical, Scientific and Engineering fundamentals required to solve engineering problems in an Industry or in a Profession or to pursue higher studies.

PEO 3

To train students with good Scientific and Engineering breadth and depth so as to Comprehend, Analyze, Design and Pursue innovative projects for real time application to the society.

PEO 4

To inculcate in students a Professional and Ethical attitudes, effective Communication skills, Team work skills, a Multidisciplinary approach and an ability to relate engineering issues to a broader social context.

PEO 5

To provide student with an academic environment aware of excellent leadership, written Ethical codes and Guidelines and the lifelong learning needed for a successful professional career.

Identified Programme Educational objectives (PEO) are given below for information.

Program Outcomes (POs):

Program Outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behavior that the students acquire through the program.

PO 1

Graduates will demonstrate knowledge of required Mathematical skills and Science component to have better understanding for approach to Civil Engineering.

PO 2

Graduates will demonstrate an ability to identify, formulate and solve Civil Engineering problems.

PO 3

Graduates will demonstrate an ability to analyze and design Civil Engineering structures.

PO 4

Graduates will equip necessary confidence to prove worthy in Higher education.

PO 5

Graduates will demonstrate skills to use Modern engineering tools, Software and Equipment to analyze problems.

PO 6

Graduates will demonstrate knowledge of Professional and Ethical responsibilities.

PO 7

Graduates will be able to communicate effectively in both verbal and written form.

PO 8

Graduates will show the understanding of impact of engineering solutions on the Society and also will be aware of contemporary issues.

PO 9

Graduates will develop confidence for self-education and ability for lifelong learning.

PO 10

Graduates can participate and succeed in Competitive examinations like GATE, GRE, and GMAT etc.

For each subject, course outcomes have also been identified.

21. Highlight the participation of students and faculty in extension activities.

- ✓ Students and faculty are active in Model making, Industrial Visits, Industry based projects, Video lectures (NPTEL) and student seminars.
- ✓ Department students actively participate in various college level activities such as NSS camp, Blood Donation Camps, Entrepreneur development cell etc.
- ✓ Students exhibit their leadership and teaming skills by active participation in CIENCIA annual technical fest organized by the institution.
- ✓ Faculty and students participate in 5k run promoting a social theme as part of CIENCIA a two day technical fest organized by the college.
- ✓ Students and faculty liberally participation in the event “street cause” a drive taken up to provide books for needy street children.
- ✓ Around 15 students from each class and 6 faculty members participated in the SWATCH BHARAT an initiative taken up by the institution to keep the institution neat and clean.

22. Give details of “beyond syllabus scholarly activities” of the department.

- ✓ Conducting Industrial tours for 2nd year and 3rd year B.Tech students every year.
- ✓ Organizing training classes for campus recruitment for 3rd and final year students.
- ✓ Organizing technical seminars and workshops.
- ✓ Faculty participation in various seminars and workshops
- ✓ Participation of our students in the technical events organized at other reputed institutes.

23. State whether the program/ department is accredited/ graded by other agencies. Give details.

As the first batch of Civil Engineering students have passed out in 2015, the department requires one more year (i.e., in 2016-2017 academic year) to get eligibility to apply to NBA accreditation.

24. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**Strengths**

- ✓ Faculty from reputed institutions with excellent academic background with a blend of teaching and industrial experience.
- ✓ Availability of State-of-art laboratories.
- ✓ Committed faculty with efficient teaming up skills.
- ✓ Eminent professors from the reputed universities associated with the department.
- ✓ Frequent organization of Guest lectures and Workshops on on-going projects by Academicians from IITs, NITs, BITS, Universities within the country and outside the country and Industries.

Weakness

- ✓ Non availability of qualified supporting staff in the laboratories.
- ✓ Non availability of faculty members at the associate professor level in particular Ph.D.holders.

Opportunities:

- ✓ To offer quality education and improve the work productivity of the students to make them better employable.
- ✓ Encouragement to pursue research by applying for sponsored projects funded by AICTE, UGC, DST etc.
- ✓ To generate revenue by offering testing and consultancy services.
- ✓ To offer flexible curriculum to suit the varying intellectual levels of the students.
- ✓ To attract better quality students to take up admission.
- ✓ Formation of strong Alumni.

Challenges:

- ✓ Faculty retention.
- ✓ Competition from other leading institutions with in the state.
- ✓ Industry and Institution interaction.
- ✓ Attracting candidates with Ph.D. qualification.

25. Future plans of the department.

- ✓ To get accredited by NBA as soon as the department gets the eligibility.
- ✓ To initiate M.Tech program in Transportation Engineering and Geotechnical Engineering.
- ✓ To establish centers of excellence in the specialized areas of civil engineering.
- ✓ To offer consultancy services in the field of Geotechnical, structural, transportation engineering and environmental engineering.
- ✓ To offer community services to the nearby villages through quality testing of drinking water.
- ✓ To offer community services by testing the water bodies polluted by discharging industrial wastes, untreated sanitary Wastewater & agricultural runoff.
- ✓ Initiate public awareness programs on building safe home against natural hazards and living safe against air pollution, land pollution and water contamination.
- ✓ To improve cadre ratio.
- ✓ To strengthen R&D activities.
- ✓ To improve academic qualification of the faculty
- ✓ To have MOUs with construction industries.

E.2 Evaluative Report of the Departments

1. Name of the Department & its year of establishment:

Department of **Computer Science and Engineering**. Established in 2001.

2. Names of Programmes / Courses offered (UG, PG, M Phil., Ph.D., Integrated Masters; integrated Ph.D. etc.):

i) UG – Bachelor of Technology. (B.Tech). –Computer Science and Engineering,

ii) PG – Master of Technology(M.Tech)- Computer Science and Engineering,

3. Interdisciplinary subjects and departments involved. :

The following Subjects are offered by other departments for the Students of CSE Department

S.No	Name of the subject	Name of the Department	Year	Semester	No of Credits
1	English	H&S	I YEAR	I SEMESTER	4
2	Mathematics	H&S	I YEAR	I SEMESTER	5
3	Engineering Chemistry	H&S	I YEAR	I SEMESTER	4
4	Engineering Drawing-1	MECH	I YEAR	I SEMESTER	4
5	Mathematics -II	H&S	I YEAR	II SEMESTER	5
6	Engineering Drawing -II	MECH	I YEAR	II SEMESTER	2
7	Engineering Physics	H&S	I YEAR	II SEMESTER	4
8	Electrical Technology	EEE	I YEAR	II SEMESTER	3
9	Probability and Statistics	H&S	II YEAR	I SEMESTER	3
10	Electronic Devices and Circuits	ECE	II YEAR	I SEMESTER	4
11	Environmental Studies	H&S	II YEAR	II SEMESTER	3
12	Managerial Economics and Financial Analysis	H&S	III YEAR	I SEMESTER	3
13	Micro Processors & Micro Controllers	ECE	III YEAR	II SEMESTER	4
14	Principles of VLSI Design	ECE	IV YEAR	I SEMESTER	3
15	Operations Research	H&S	IV YEAR	I SEMESTER	3
16	Elements of Civil and Mechanical Engineering	MECH	IV YEAR	I SEMESTER	3
17	Management Science	H&S	IV YEAR	II SEMESTER	3

4. Annual / Semester / choice based credit system:

- B. Tech – Semester system with prescribed number of credits for each subject - Four years program.
- M. Tech – Semester system with prescribed number of credits for each subject – Two years program.
- Choice Based Credit System (CBCS) has been introduced in the academic year 2015-16 after the approval of Board of Studies and Academic Council of the College. Students of B.Tech I Year and M.Tech I Year of 2015 admission batch will follow CBCS. Other senior classes will continue in semester pattern as per their Regulations.

5. Participation of the Department in the subjects offered by other Departments.

S.No	Name of the subject	Name of the Department	Year	Semester	No of Credits
1	Problem Solving through 'C' (Core Subject)	CIVIL/EEE/MECH	I YEAR	I SEMESTER	3
2	Data Structures through 'C' (Core Subject)	CIVIL/EEE/MECH	I YEAR	II SEMESTER	3
3	Computer Networks (Core Subject)	ECE	III YEAR	II SEMESTER	3
4	Computer Organization (Core Subject)	ECE / EIE	III YEAR	II SEMESTER	3
5	Operating Systems (Core Subject)	ECE	III YEAR	II SEMESTER	3
6	Computer Architecture (Core Subject)	EEE	III YEAR	II SEMESTER	3
7	Advanced Computer Architecture (Elective)	ECE	IV YEAR	I SEMESTER	3
8	Artificial Neural Networks (Elective)	ECE	IV YEAR	I SEMESTER	3
9	Network Security (Elective)	ECE	IV YEAR	I SEMESTER	3
10	Object Oriented Programming using C++(Elective)	EEE/EIE/MECH/CIVIL	IV YEAR	I SEMESTER	3
11	Database Management Systems(Elective)	EEE/MECH/CIVIL	IV YEAR	I SEMESTER	3
12	Object Oriented Programming Through Java(Elective)	EIE/ECE	IV YEAR	I SEMESTER	3
13	Artificial Neural Networks(Elective)	EIE	IV YEAR	II SEMESTER	3
14	Advanced Computer Architecture (Elective)	EEE	IV YEAR	II SEMESTER	3

6. Number of teaching posts sanctioned and filled (Professors / Associate Professors / Asst. Professors)

Details of Teaching Staff for the Academic Year 2014-2015

	<u>B.Tech</u>		<u>M.Tech</u>	
	As per the AICTE Norms	Filled	As per the AICTE Norms	Filled
Professors	4	3	1	1
Associate Professors	8	8	-	-
Assistant Professors	24	25	5	5
Total	36	36	6	6

Details of Teaching Staff for the Academic Year 2015-2016

	<u>B.Tech</u>		<u>M.Tech</u>	
	As per the AICTE Norms	Filled	As per the AICTE Norms	Filled
Professors	5	5	1	1
Associate Professors	11	11	-	-
Assistant Professors	32	39	5	5
Total	48	55	6	6

7. Faculty profile with name qualification, designation, specialization, (D.Sc. / D.Litt. / Ph. D. / M. Phil. etc.)

i) Bachelor of Technology. (B.Tech) – Faculty List (2015-16)

Sl. No.	Name of the Staff Member	Qualification, University And Year of Graduation	Designation	Specialization	No of Years of Experience	No of Ph.D Students for the last 4 years
1	Prof. L.C. Siva Reddy	M. Phil UoH 1981 (Ph.D) OU	Professor & Head, CSE Dept. & Vice-Principal	Computer Networks	35	-
2	Dr. Raghava V Cherabuddi	Ph D (USA) M. S,(USA)	Professor CSE & In charge of Placement	VLSI	15	-
3	Dr. N.V. Rao	PhD(CSE) JNTU-2008	Professor CSE	Image Processing	42	2
4	Dr. K.Venkateswara Rao	M. Tech JNTU 1993 Ph.D. JNTUH 2015	Professor CSE	Data Mining	21	-
5	Prof. M. Badri Narayana	M. Phil 1978 UoH M. Tech 1996 OU	Professor CSE		33	-
6	Mr. C. Ramesh	M. Tech JNTU 2005 (Ph.D) JNTUH	Associate Prof.	Data Mining Symantic Web	13	-
7	Mr. Raghava .M	M.Tech UoM 2003 (Ph.D)-HCU	Associate Prof.	Image Processing	14	-
8	Mrs. A. Vani Vathsala	M. Tech HCU 1998 (Ph. D)-HCU	Associate Prof.	Web Services	13	-
9	Mr. L. Venkateswarlu	M. Tech OU, 2004 (Ph. D)-JNTUA	Associate Prof.	Image Processing	19	-
10	Mr. Ch. Ram Mohan	M. Tech 2006 (Ph.D)- JNTUH	Associate Prof.	Mobile Adhoc Networks	15	-
11	Smt. Sujana Cherabuddi	M.S. (CS), U.S.A. 1998	Associate Prof.	Networks	12	
12	Mr. B. Ram Babu	M. Tech OU 2010 (Ph.D)- OU	Associate Prof.	Sensor Networks	13	-

13	Mr. V. Dattatreya	M. Tech 2004 (Ph.D)-JNTUH	Associate Prof.	Software Engineering	15	-
14	Mr.V.Anand	M.Tech(CSE)2014	Associate Prof.	Design Patterns	14	-
15	Mr. A. Mallareddy	M. Tech JNTUH 2010 (PhD)-JNTUH	Associate Prof.	Cloud Computing	9	-
16	Mrs. Sunitha Maddhi	M. Tech JNTU2009 (PhD)-JNTUH	Associate Prof.	Sensor Networks	10	-
17	Mr. Suhail Afroz	M. Tech JNTUH 2010	Sr. Asst. Prof.	Big Data	14	-
18	Mrs. S. Suguna Mallika	M. Tech JNTUH 2012	Sr. Asst. Prof.	Software Engineering	6	-
19	Mrs.M. Sathya Devi	M. Tech JNTUH 2011	Asst. Prof.	Cloud Computing	10	-
20	Ms. V. Sowjanya	M. Tech JNTUH 2010	Asst. Prof.	Data Mining	9	-
21	Mr. M.Hanimi Reddy	M. Tech JNTUH 2013	Asst. Prof.	Web Services	9	-
22	Mr. Syed Muqthadar Ali	M. Tech JNTUH 2013	Asst. Prof.	Software Engineering	11	-
23	Mr.D. Sujan Kumar	M. Tech JNTUH 2010	Asst. Prof.	Data Mining	17	-
24	Mr. Sahith R	M. Tech JNTUH 2012	Asst. Prof.	Software Engineering	4	-
25	Ms. G.Swetha	M. Tech JNTUH 2011	Asst. Prof.	Computer Architecture	8	-
26	Mrs. CH. Sarada	M. Tech JNTUH 2011	Asst. Prof.	Data Mining	11	-
27	Mr. N.Satyanarayana	M. Tech JNTUH 2010	Asst. Prof.	Data Mining	6	-
28	Mr.B.Ashwin Kumar	M. Tech JNTUH 2011	Asst. Prof.	Network Security	5	-
29	Mrs. Ch.Bhavani	M. Tech JNTUH 2012	Asst. Prof.	Software Engineering	6	-
30	Mr.R.Satya Prakash	M. Tech JNTUH 2011	Asst. Prof.	System Programming	5	-
31	Ms.K.Baby Janaki	M. Tech ANU 2009	Asst. Prof.	Software Engineering	3	-
32	Mrs.P.Madhavi	M. Tech OU 2009	Asst. Prof.	System Programming	11	-
33	Mr.R.Arun Kumar	M. Tech JNTUH 2012	Asst. Prof.	System Programming	5	-
34	Mrs.V.N.V.L.S. Swathi	M. Tech JNTUH 2012	Asst. Prof.	Data Bases	9	-
35	Mr. K.Veeranjaneyulu	M. Tech 2013 JNTUH	Asst. Prof.	Data mining	9	-

36	Mr. Mohammad Umar	M. Tech 2011 JNTUH	Asst. Prof.	Cloud Computing	9	-
37	Mrs. S. Lalitha	M. Tech 2012 JNTUA	Asst. Prof.	Machine Learning	6	-
38	Mr. K. Naresh Babu	M. Tech 2014 AU	Asst. Prof.	Data mining, Machine Learning	2	-
39	Mrs. Priyanka Gupta	M. Tech 2013 JNTUH	Asst. Prof.	Image Processing	3	-
40	Mr. K. Karthik	M. Tech 2012 JNTUH	Asst. Prof.	Wireless Sensor Networks	5	-
41	Ms. Ch. Pravallika	M. Tech 2012 JNTUH	Asst. Prof.	Cloud Computing	4	-
42	Ms. G. Sandhya	M. Tech 2014 JNTUH	Asst. Prof.	Network Security	Fresher	
43	Mr. R. Srishylam	M. Tech 2014 JNTUH	Asst. Prof.	Cloud Computing	Fresher	-
44	Mrs. B. Sandhya Rani	M. Tech 2012 JNTUH	Asst. Prof.	Big Data Analytics	7	-
45	Mr. P Srinivasa Reddy	M. Tech 2014 JNTUH	Asst. Prof.	Data mining	Fresher	-
46	Ms. P Pravallika	M. Tech 2014 JNTUH	Asst. Prof.	Big Data , Network Security	Fresher	-
47	Mr. D Beekhya	M.E OU 2009	Asst. Prof.	Data mining	8	-
48	Mrs. Dasari A Rachana	M. Tech 2014 JNTUH	Asst. Prof.	Network Security	2	-
49	Mrs. A Swathi	M. Tech 2013 JNTUH	Asst. Prof.	Network Security	3	-
50	Mr. S.Srinivas	M. Tech 2007 JNTUH	Asst. Prof.	Data mining	14	-
51	Ms. Laxmi Jeevani	M. Tech 2015 JNTUH	Asst. Prof.	Network Security	Fresher	-
52	Ms.TSP Madhuri	M. Tech 2015 JNTUH	Asst. Prof.	Software Engineering	Fresher	-
53	Ms. Y Sharada	M. Tech 2009 JNTUH	Asst. Prof.	Network Security	5	-
54	Ms. M Meghana	M. Tech 2014 JNTUH	Asst. Prof.	Data mining	1	-
55	Mr. Md Asif	M. Tech 2015 SVU	Asst. Prof.	Network Security	Fresher	-

ii) Master of Technology. (M.Tech) CSE – Faculty list (2015-16)

Sl. No.	Name of the Staff Member	Qualification, university And year of graduation	Designation	Specialization	No of Years of experience	No of Ph.D Students for the last 4 years

1	Dr. K . Narender Reddy	M.Tech(CS), Ph.D CSE 2013	Professor CSE	Software Engineering	26	-
2	Mr. N.Srihari Rao	M. Tech 2006 Karunya Deemed University (Ph. D)-JNTUA	Asst. Prof.	Data Mining	8	
3	Mrs. N. Vanaja	M. Tech JNTUH 2012	Asst. Prof.	Network Security	4	-
4	Mr. N. Nagarjuna	M.Tech JNTU 2008	Asst. Prof.	Android Programming	8	-
5	Mrs. G. Ramya	M. Tech UoH 2010	Asst. Prof.	Artificial Intelligence	5	-
6	Mrs. S. Pritibahen Patel	M. Tech JNTU 2012	Asst. Prof.	Network Security	10	-

8. Percentage of classes taken by temporary faculty – programme-wise information:

The Department has no temporary faculty, all are regular faculty

9. Programme-wise Student Teacher Ratio:

- i) UG - Bachelor of Technology. (B.Tech) : 13.1:1
 ii) PG – Master of Technology. (M.Tech) : 12:1

10. Number of academic support staff (technical) and administrative staff: and filled

	Technical Staff		Administrative Staff (DTP Operator)	
	Sanctioned	Filled	Sanctioned	Filled
B.Tech	12	12	2	2
M.Tech	2	2	-	-

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Name of the Project	Name of the Faculty	Funded by	Total Grants Received
RFID Project 2009-10, 2010-11	Prof. S. Sen Gupta, Convener Professor, Dept of ECE	CVR College of Engineering	18.00.000/- per two years
	M Raghava Associate Professor-CSE		
	Mr. P. Hari Krishna Project Associate- CSE		
	Mr. B. Anjaneyulu Project Assistant- CSE		

12. Departmental projects funded by DST-FIST ; DBT, ICSSR, etc.; total grants received:

The institution, in its pursuit to provide necessary facilities for promoting basic research and catalyzing cross-fertilization of ideas with industry and R&D agencies, has gone ahead to assist a major Central Govt. Power PSU(Public Sector Undertaking) in the porting of some of its legacy software available in Fortran to C++ using an open source translator called "Fable". As a pilot, one module comprising of about 8000 Lines of Code (LOC) in native FORTRAN is assigned to M.Tech (CSE) students under the guidance of 2 senior faculty. The converted package has been successfully demonstrated with matching results against their production system.

The Power PSU's R&D team appreciated the effort rendered in successful completion of the module translation and is now willing to outsource the porting of another 5 modules comprising a total of around 2,20,000 LOC which would be shared in a phased manner. A Non Disclosure Agreement (NDA) has been executed with the Power PSU and special infrastructure setup for the execution of the same has been provided by the college. The PSU is also offering an in-house training for a maximum of 3 resource persons working on this project for facilitating knowledge transfer with respect to domain expertise and other operational details. Currently 4 M.Tech students under the guidance of the 2 faculty members are working on this project.

13. Research facility / center with

- i. **State Recognition:** Department of CSE has submitted proposal to JNTUH, Hyderabad to recognize us as a Center for Research in Computer Science & Engineering and the application is pending with the University.
- ii. **National recognition:** Nil
- iii. **International recognition:** Nil

14. Publications:

- i) Number of papers published in peer reviewed journals (national / international):

	2015-16	2014-15	2013-14	2012-13	2011-12	2010-11
International Journals	5	4	1	6	6	1
International Conference	3	1		1		1
National Conference			1	1	2	1
International Workshops			1			

- ii) Monographs

The following are the labs for which lab manuals are prepared reviewed continuously, printed and supplied to students

Name of the Lab	Prepared By	Year	No. of Experiments
Computer Programming	A Vani Vatsala	I	24
Unix Programming Lab	M Raghava	II-I sem	16
Data Structures using C++	V Dattatreya	II-I sem	16

Object Oriented Programming through Java	Suhail Afroz	II-II sem	16
DBMS Lab	D Sujan Kumar	II-II sem	16
Computer Networks/CASE Tools Lab.	M Sunitha, K Venkateswar Rao	III-I sem	16
Web Technologies and CD	Sujan Kumar, Suhail Afroz and	III-II sem	16
Data Mining and Network Programming Lab	C Ramesh L Venkateswarlu	IV- I sem	16
Mobile Application Development Lab	Suhail Afroz	IV- I Sem	14

iii) Chapters in Books:

iv) Editing Books:

v) Books with ISBN numbers with details of publishers:

vi) Number listed in International database (For e.g. Web of science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 10

vii) Citation index – range / average:

viii) SNIP:

ix) SJR:

x) Impact factor – range / average:

15. Details of patents and income generated : Nil

16. Areas of consultancy and income generated: Nil

17. Faculty recharging strategies:

Department of CSE encourages the faculty members to involve themselves in continuous learning and adapt to the latest technologies by providing enabling environment and offering a level playing field across different domains. Department also invites the industry experts and Alumni to share their expertise through workshops and short-term courses.

Following are the various activities:

- Encouraging faculty to publish technical papers and offering incentives of Rs. 20,000/- per paper Sponsoring faculty to present in conferences and offering financial incentives for registration and travel.
- Liberal sanction of study leave for those doing PhD per six months with salary, two times during Ph.D. work.
- Conducting short term seminars / workshops by inviting industry experts, researchers and Alumni.
- Organizing Guest lecturers.
- Deputing faculty to attend workshops in other colleges.
- Offering financial incentives for completing M.Tech in part time programme.

18. Student projects

Department of CSE is enriched with good academicians; industry exposed and experienced faculty members. So the department offers graduate and post-graduate level projects within the department. Each Faculty members submits two project titles to the project review

committee. Students select the titles and carryout the project in the dedicated labs. The execution of the project is thoroughly monitored by the faculty advisor and project reviews are conducted twice. Few students are allowed to take projects from reputed research organizations like DRDO, ECIL etc, only under the joint guidance. Industry Internships for campus recruits are considered separately.

- a. Percentage of students who have done in-house projects including inter-departmental :90%.
- b. Percentage of students doing projects in collaboration with industries / institutes :10%

19. Awards / recognitions received at the national and international level by

- i. Faculty:
 - a) Dr. N V Rao was recognized as Life Senior Member in January-2016 by IEEE while serving as Professor in the Dept of CSE.
 - b) The following staff members of CSE are the members of IEEE
 1. Mr. L. Venkateswarlu
 2. Mr. Ch. Ram Mohan
- ii. Students:
 - a) Mr. Harsh H Shah (05B81A0529) received three Gold Medals form JNTUH,
 - i. Best outgoing Student of CSE for the year 2009, out of all JNTUH affiliated colleges.
 - ii. Late Prof G.Purushotham Memorial medal for highest marks in mathematics
 - iii. Dr.MD.Vizarath Rassol Khan Endowment Medal for 1st Rank in B.Tech
 - b) Cash Award for the best B.Tech Project in CSE Ms. M. Kalyani (10B81A0533), Ms. D. Omika (10B81A0550) at College level.
- c) Cash award to the toppers of each branch other than those who won Gold Medals. Rs.6, 000/- Ms. Gampa Kavya(10B81A0535).

20. Seminars / Conferences/ Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

Module Description	Source of Funding	Developed/ Organized by	Duration	Resource Persons	Target audience
2 Day Workshop on Public key Infrastructure	Self Support	Prof. L.C. Siva Reddy & Prof. M. Badrinarayana	21 st and 22 nd January 2016	Dr Misbahuddin, CDAC , BANGalore	Faculty & Students from CVRCE and other colleges
2 Day National Conference on Rough Sets and Knowledge Discovery	Self Support	Prof. L.C. Siva Reddy & Mr. M. Raghava	8 th and 9 th November 2015	Dr. Yagnanarayana, IIIT Hyd. Dr. Sastri, IIT Hyderabad Dr. P S V S Sai Prasad, UOH, Hyd. Dr. Guru , UOM, Mysore. Dr Varma, ANU, Rajamundry. Dr. Phani Krishna, GVP, Vizag. Dr. Satapathy, ANITS, vizag. Dr. Kannan Srinadhan, IIIT Hyd.	Research Scholars & faculty from various Universities & its affiliated colleges , Faculty from CVRCE

2 day workshop on Big Data	Self Support	Mr. CVS.Satya Murthy	16 th and 17 th Jan, 2014	Prof T. Eshwar, Professor CSE	Faculty from CVRCE
Environmental Science and Ethics	Self Support	Mrs. Suguna Mallika	21 st December, 2012.	Dr. Vivekananda Kandarpa	Faculty from CVRCE
An Architecture Framework for Spacio Temporal Data Mining System	Self Support	Mr. K Venkateswar Rao	15 th September 2012	K Venkateswar Rao	Faculty from CVRCE
14 day work shop Android Application Development	Self Support	Mr.Suhail Afroz	18 th Jan to 07 th Feb 2012	Mr.K.Rama Krishna (Alumni CSE)	Faculty from CVRCE
1 Day workshop on Cloud Computing	Self Support	Mr. K Venkateswar Rao	4 th Jan 2012	Dr Rajkumar Buyya , Univ. of Melbourne Rajeev Wanker, UoH & Dr. Rajeev Wankar From UOH	Faculty from CVRCE
5 Day Workshop on Theory of Computation and Compiler Design	Self Support	Mr. M Raghava	27 th June – 1 st July 2011	Prof T. Eshwar, Professor CSE	Faculty from CVRCE and outside

21. Student profile course-wise:

Duration of the Course	Applications received	Selected		Pass Percentage Passed out in	
		Male	Female	Male	Female
2007-11 (B.Tech)	Filled by EAMCET Convener, nominated by Govt of AP and TS based on Rank in EAMCET qualifying exam	76	46	87	96
2008-12(B.Tech)		73	42	99	98
2009-13(B.Tech)		74	47	89	98
2010-14(B.Tech)		89	40	97	98
2011-15(B.Tech)		69	44	99	100
2009-11(M.Tech)		4	5	100	100
2010-12(M.Tech)		9	6	100	100
2011-13(M.Tech)		18	11	100	100
2012-14(M.Tech)		2	12	100	100
2013-15(M.Tech)		17	18	100	100

22. Diversity of Students:

Name of the Course (refer question No.2)	% of students from the college	% of students from the State	% of students from other States	% of students from other Countries
B. Tech 2014-15	Nil	100	-	-
M.Tech2014-15	Nil	100	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

i) GATE

Academic Year	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
No of Students	6	12	6	5	6	4

24. Student progression:

SNo	Student progression	Percentage Against enrolled
1	UG to PG	20%
2	PG to M. Phil.	-
3	PG to Ph.D.	-
4	Ph.D. to Post-Doctoral	-
5	Employed • Campus selection • Other than campus recruitment	60% 18%
6	Entrepreneurs	2%

25. Diversity of staff

SNo	Percentage of faculty who are graduates	
1	Of the same parent university	56 %
2	From other universities within the State	35 %
3	From other universities from other States	9 %

26. Number of faculty who were awarded Ph.D., D Sc. And D.Litt. during the assessment period:

S. No	Name	Designation	Year
1	Dr.K.Narender Reddy	Professor	Awarded Ph.D. by JNTU Ananthapur AP in 2012-13
2	Dr..K.Venkateshwar Rao	Associate Professor	Awarded Ph.D. by JNTU Hyderabad 2014-2015

3	Mr.M.Raghava	Associate Professor	Compiling the thesis of PhD
4	Mrs.A.Vani Vathsala	Associate Professor	Compiled the thesis and pre-submission viva is scheduled, for her PhD

27. Present details about infrastructural facilities

i. Library:

- Central Library
 - o No of books:
 - Volumes: 14994
 - Titles : 2852
 - o Internal Journals: 14
 - o National Journals: 08
- Department Library: No of books/volumes: 468
- Digital Library
 - o DELNET :
 - o E-Journals : 490
 - o E-Book: 1296
 - o DELNET - IESTC: 1577

ii. Internet facilities for staff and students:

- o Name of the Internet provider: **Apollo Vainavi BSNL**
- o Available bandwidth: **75Mbps 35Mbps 10Mbps**
- o Access speed: **2Mbps (max) for individual**

iii. Total number of class rooms:

- o For B.Tech No. of class rooms 14 of 72 sqm. each. Tutorial rooms 4 of 35 sqm and Seminar hall of 150 sqm.
- o For M.Tech 4 class rooms of 35 sqm. each. All class room have OHP, LCD fixed in most of the rooms. Well ventilated with window curtains to avoid glare.

iv. Students' laboratories:

o B.Tech - Program:

S No	Name of the Lab(As per the Course Structure)	Number of Experiments	Utilization of Labs
1	COMPUTER PROGRAMMING LAB	25	Two sessions Per day(during college hours) 4.00 pm-6.00pm on request (after class hours)
2	DATA STRUCTURES THROUGH 'C' LAB	19	
3	DATABASE MANAGEMENT SYSTEMS LAB	12	
4	OBJECT ORIENTED PROGRAMMING LAB	26	
5	UNIX PROGRAMMING LAB/DATA STRUCTURES THROUGH C++	16	
6	WEB TECHNOLOGIES LAB	7	
7	LINUX PROGRAMMING/DATA MINING LAB	40	
8	SOFTWARE TESTING AND MOBILE APPLICATION DEVELOPMENT USING	32	
9	COMPUTER NETWORKS/CASE TOOLS LAB	16	
10	IT WORKSHOP LAB	12	

11	ADVANCED DATA STRUCTURES AND ALGORITHMS LAB	18	
12	WEB SERVICES LAB	6	

In addition, students of CSE department also utilizes the lab facility available in other departments like EEE, ECE, Mechanical and H&S to carry out the experiments associate with the curriculum .

v. Research laboratories:

- i) B.Tech - Project Lab - Library Block 202



Lab – Computer Block 103



28. Number of students of the department getting financial assistance from the State Govt.:

SNo	Course	Course Year	No. of Students Availied Financial Assistance				
			2014-15	2013-14	2012-13	2011-12	2010-11
1	B. Tech. (C S E)	I Yr.	124	98	60	46	45
		II Yr.	95	55	44	45	46
		III Yr.	54	41	47	44	38
		IV Yr.	40	47	44	37	35
2	M. Tech. (CSE)	I Yr.	12	13	8	0	10
		II Yr.	12	8	12	10	8

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:

During 1995-99 the Indian IT industry witnessed a burst in demand for Software Engineering professionals. Then the number of Engineering Colleges offering Software Engineering was a very less. Alongside the developments in VLSI technologies, Telecommunications and Cellular Technologies were prompting the Indian Industry to revamp the existing infrastructure and catch-up the market trends in the technology arena. Several national and international market predictions were showing software professionals and multinational companies were recruiting students from the campuses. During that period our chairman was working in INTEL USA. He started interacting with industry experts and envisioned the market pulse and initiated the idea of starting an Engineering College with circuit branches. Then the State Government also encouraged this idea by including this as a part of the government Janma Bhoomi Scheme. Thus the Department of CSE was started with intake of 60 during 2001-02, later Intake was increased to 120 in 2002-03. The college has fulfilled all the infrastructure requirements conditions of AICTE and the department was accredited twice during 2006-07 and 2011-12 leading to increase in intake 300 from the academic year 2014-15.

30. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The college was following the syllabus prescribed by the NTUH, for all the affiliating colleges till 2010. Even during that time feedback was obtained from the staff regarding quantity of syllabus and sufficiency of time to cover the syllabus prescribed, on the subjects they were teaching. Same was intimated to Directorate of Academic planning -JNTU. Subsequently, JUTUH has accorded autonomy to the college in the academic year 2011-12.

After obtaining the autonomy professors and senior staff members were included in BOS to discuss the curriculum and the syllabus in detail and smoothen out the uneven content and extra syllabus to the tune of 20% variation as permitted by the University.

Teaching – Learning Process Improvement: Teachers feedback on teaching – learning – evaluation is considered in a continual manner. The activity in the laboratories, opinion of teachers on the performance of students in the mid exam, the mode of conducting mid exam, pro-forma of the question paper and the quality of assignments are utilized to improve the Teaching Learning Process. In the laboratory sessions each faculty is associated with 20 students for effective monitoring, evaluation and mentoring. As part of the tutorials sessions students are encouraged to solve problems independently.

The faculty meetings also offers a room for deliberations on the tuning the teaching learning process. These meetings proved to have positive outcomes and strengthen the logistics of the department.

In recent times outcome based teaching-learning process is introduced. The objectives and outcomes of each subject are well compiled by the senior faculty members and instruction is oriented towards meeting the outcomes.

b) Feedback from students on staff:

The feedback pro-forma is designed by experienced professors. This is common to all the departments of the college. The feedback is collected by the feedback in-charge with assistance of college administrative staff. Feedback is collected twice in the semester.- it is collected from the students, who have put-up certain minimum attendance with the participation of 75% of the class.

Basis of reward / corrective measures, if any:

The Feedback is analyzed manually.

The core metric derived out of the analysis process is the mean of average of the rating. The metric accounts for the basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage, Clarity of expression, teachers command over the subject, regularity of the student and overall opinion.

- o A Benchmark of 75% grading is adopted. Faculty scoring 65% to 75% are individually counseled by the respective Head of Department.
- o Faculty scoring 55% to 65 % are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. This has helped many junior faculty members to improve, through regular interaction with the Associate Professors.
- o Faculty scoring less than 50% is taken as serious cases for review, for one more semester.
- o There are few instances of not much of an improvement even after two years such people are put for lab instruction / tutorial for one more year. Detailed analysis sheets are available with the departments.

Feedback from students on curriculum and teaching-learning evaluations:

Students are advised to meet the faculty advisor to put forward his remarks on syllabus coverage, the load on students with regard to the current curriculum and the necessity of introducing a new subject into the curriculum based on his personal interests. If the department is convinced with the collective and consolidated remarks and needs of the students then the syllabus is revised related to few subjects and a new subject is introduced if required. Mobile Application Development is an example for such an exercise.

With regard to laboratory sessions, extra sessions are planned beyond the college hours and students would work on problems beyond the syllabus.

Students are provided with MOOC like Corsera, MITCOURSEWARE to enrich the subject understanding.

c) Feedback from Alumni and Employers on the program:

The passed out students are encouraged to become part of the alumni association. The old students are elicited to give their view point on the updating the curriculum and introducing the new pedagogic practices. Our alumni regularly visit the college. During there interaction they are

apprised about the changes in the syllabus and procedure adopted for mini and major projects. Their opinion is being given due weight-age during board of studies meeting. The data acquired is being used in the continuous improvement and attainment of PEO's. Employers are involved in as member of academic counsel, GB and BOS.

Alumni Survey:

- o The passed out students automatically are eligible to the members of alumni association
- o This is a written questionnaire which our alumni are asked to complete.
- o The Alumni association meets twice a year and recommends measures for overall improvement of the program
- o The data will be used in continuous improvement and attainment of PEOs.
- o Employers are involved as members of GB, AC and Bus. Industry Personal Visits are collected by having detailed discussion every year. Guest Lectures, Campus Connect, PPT are arranged and HODs have opportunity of discussing critical and important issues.

31. List the distinguished alumni of the department (maximum 10)

1	Mr. Vinay Kumar Palle	2005	Astvox Networking Solutions	CEO & Founder	Hyderabad
2	Mr. N A S Praseeda	2007	Mphasis an HP Company	SAP Security Consultant	Pune
3	Mr. Deepthi Tunga	2008	HCI solutions	CRM Data Controller	Hyderabad, Begumpet
4	Mr. R.Swapna	2008	Oracle	Automation Engineer	Bangalore
5	Mr. Arghya Basu	2008	Core Diagnostics	co-founder& Director	Gurgaon
6	Mr. Aasritha Poorna Seethapalli	2008	AC Nielsen	Client Solutions Executive	Mumbai
7	Mr. Mounika Paka	2009	Medicare Australia	Tester	Australia
8	Mr. Ramakrishna Reddy Kunreddy	2009	Cisco Systems	Software Engineer-II	Banglore, India
9	Mr. Suresh Kumar Manchikanti	2009	National Remote Sensing Centre	Scientist/Engineer	Hyderabad
10	Mr. Yagna Narayana Sastry	2010	Accenture	Software Engineer	Hyderabad

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

College organizes and encourages students to get involved with the following student enrichment programmes.

- i) Participating in technical events and guest lecturers organized by the College.
- ii) Encouraging students to participate in the programs organized by other institutions.
- iii) Students presenting technical papers at other institutions
- iv) Organizing technical events. College organizes every year a technical event called "Ciencia". About 800 students participate from about 30 institutions.

Students participating in technical competitions

The following table displays the list of students, who have participated in various events.

SN o.	Student name	Paper title/ Workshop	venue	Month & Year
1	M. Sricharan	NASDAKSH	DAKSH 5.0 Sastra University	25-27 Feb2011
2	Ms.RohiniPatil	Java Debugging Co- Coordinator	CIENCIA2k11	Mar 16,17 2011
3	Ms. RohiniPatil	Technical Quiz	TECHNOERA At RVRIET	2010-11
4	B. Sangeetha	Techno Puzzle	CIENCIA2k11	2010-11 Mar 16,17
5	B. sangeetha	Java Debugging	CIENCIA2k11	Mar 16,17 2011
6	B. Sangeetha	Debugging	Ritsika2k11, at BITSW	2010-11
7	B. Sangeetha	Games Development	Convergence2k11 VNRVJIT	14-16 Feb 2011
8	P.T Bhargava	HAPTICS	CIENCIA2k10	2009-10
9	V. Rohit Reddy	KRYPTOTS	Aagama2k11 Anurag Group	18-19 Feb 2011
10	V.Rohit Reddy	C Coliseum	Aagama2k11 Anurag Group	18-19 Feb 2011
11	V.Rohit Teddy	Paper Presentation	Forshung'11 BIET	11-12 Mar 2011
12	V.Rohit Teddy	One-Way out	CIENCIA2k11	16-17 Mar 2011
13	V.Rohit Teddy	Wall UR Innovation	CIENCIA2k11	16-17 Mar 2011
14	N.Vishal G. Sanjeev	Paper Presentation	Vignite11, VITS	29-30 Aug 2011
15	Ms.RohiniPatil	Paper Presentation	Technoeta- 2011,RVRIET	2011
16	Ms.RohiniPatil	Paper Presentation	Sangama2k11, Aurora	17-18 Mar 2011
17	M.Sricharan	Cerulean	QUEST- 2011,JNTUH	15-16 Mar 2011
18	Ranjitha	Paper Presentation	Sangama2k11,Au rora	17 th 18 th March 2011
19	G. Sanjeev Kumar	Bubble Sensing (paper presentation)	Sreenidhi Institute of sciences and	Aug 2011
20	G. Sanjeev Kumar	Ethical Hacking, (workshop)	CVR, Hyderabad	March 2011
21	N. Vishal	NOVERMIA AIRCRAFT EVENT, (paper presentation)	NIT Warangal	Oct,2011
22	Ch. Sri Charan	NOVERMIA AIRCRAFT EVENT, (paper presentation)	NIT Warangal	Oct,2011

23	G. Sanjeev Kumar	Wireless Sensor Networks, (paper presentation)	VRR Vignanjyothi,	Feb 2012
24	DarnamVinay	Wireless Sensor Networks, (paper presentation)	VRR Vignanjyothi,	Feb 2012
25	K.Srinivas Reddy	C-Programming Contest	Sri Indu College of Engg& Tech	Feb 26th, 2012
26	SaiAkhil	C-Programming Contest	Sri Indu College of Engg& Tech	Feb 26th, 2012
27	K.Srinivas Reddy	C- Debugging	AVN Institute of Engg& Tech	Feb 2012
28	SaiAkhil	C- Debugging	AVN Institute of Engg& Tech	Feb 2012
29	V omkareshwar, a pavan bharadwaj	Near field communication	MGIT, HYD	March, 2013
30	V omkareshwar, a pavan bharadwaj	Near field communication	OU, HYD	March, 2013
31	K dhikshit, ambati madhu	Smart quill	JNTU-HYD	March, 2013
32	Ambati giridhar, D hitesh kumar,	Smart auto rikshaw meter	IIIT-HYD	March, 2013
33	Krishna nikhil, K arun reddy	Face recognition using photometric technology	MGIT, HYD	March, 2013
34	Krishna nikhil	Face recognition using photometric technology	JBIT, HYD	March, 2013
35	K sandeep nair, Y sweta narayani	Gi-fi	VJIT,HYD	March, 2013
36	A pavan bharadwaj, D hitesh kumar	Smart auto rikshaw meter	CBIT,HYD	Feb, 2013
37	K poojitha, P neetha reddy	Red tacton	OU, HYD	March, 2013
38	Ambati giridhar, D hitesh kumar	Magic finger	OU, HYD	March, 2013
39	Srilatha nara, Susmita bompada	Health care system	MGIT,HYD	March, 2013
40	Y sumana, P srija	Transfer jet	SNIST,HYD	March, 2014
41	R. Nagalaxmisravva, Ch. Kalyani	Silent sound technology	OU, HYD	March, 2014
42	N.nikitha reddy	Outreach rounds - robo gravity	CVRCE	March, 2014
43	P. Neetha Reddy K. Poojitha	PALM VEIN TECHNOLOGY	SNIST	March, 2014
44	Sandeep	FOOTBALL GAME	CVSR	March, 2014
45	Mani kumar reddy Kancharla	MALI IN UNICEF AT CBIT MODEL UNITED NATIONS	CBIT	SEPT 2014
46	P. Siri chandana	DEBATE	IIT, HYDERABAD	FEBRUARY 2015
47	Bandhavya cholleti	PAPER PRESENTATION	SNIST, HYDERABAD	MARCH 2015

48	Bandhavya cholleti	RUN/STREET CAUSE	SNIST, HYDERABAD	MARCH 2015
49	B.Krishna priya	RUN / STREET CAUSE	SNIST, HYDERABAD	MARCH 2015
50	Guguloth Nikitha	PAPER PRESENTATION	MGIT	MARCH ,2015
51	Mani kumar reddy Kancharla	WAY{2}HACK ANGELHACK	IIT, HYDERABAD	MAY 2015

Technical Talks Arranged by Department of CSE involving industry experts and Alumni:

1. Mr R Raghuveer -Alumni CSE, IBM has presented a technical talk “Software Development using Java” to B.Tech III- CSE on 23-Nov-2013.
2. Mr R Raghuveer -Alumni CSE, IBM has presented a technical talk “Personality Development” to B.Tech II- CSE on 23-Nov-2013.
3. Ms. Kausik Sirineni University of Texas at Dallas has presented a technical talk “Augmented Reality” to B.Tech III- CSE on 06-Jan-2014.
4. Dr Atul Negi, Professor in School of Computer & Information Science, University of Hyderabad has presented a technical talk “Computational intelligence and Excitements” to B.Tech III- CSE on 28-March-2014.
5. Mr. Kashyap Ivaturi from Amazon has presented a technical talk “Virtualization” to M.Tech CSE Students And Faculty of CSE on 14-April-2014.
6. Mr. K. Amarnath (IIT Bombay) has presented a technical talk “Password Security by Captchas” to B.Tech III- CSE Students in April-2014.
7. MS. L Milinda -Ph.D Scholar from Stanford University has presented a talk “ The Computaitonal Models to Tackle Malnutrition ” for B.Tech -IV year students on 15-9-2014.
8. Dr. D Sudheer Reddy- Scientist E, ISRO has conducted a tutorial “ Sparse Representations and their Applications” on 20-9-2014. M.Tech Students and Faculty members from CSE, IT and ECE have participated in this tutorial. The outcome of this was about Dictionary Learning algorithms and Selection of basis for feature extraction from Data.
9. Mr D. Ranjit – Alumni CSE, Bank of America, conducted a intensive hands on session on Hadoop and Big Data on 9-10-2014. Students of B.Tech IV, M.Tech and Faculty members have gained from this session.
10. Mr R Raghuveer -Alumni CSE, IBM has presented a technical talk “Internet of Things” to B.Tech IV- CSE on 18-10-2014.
11. Ms Preethi Ghalke, Project Manager, IBM addressed the B.Tech III- CSE students on Websphere on 18-10-2014.
12. Mr M. Hari Krishna- GATE-11 Topper and PhD student-IISc has interacted with B.Tech-II CSE on 28-10-2014. He emphasized to the students on the opportunities that open up through GATE. He has also presented the weightage of each subject of B.Tech curriculum in GATE exam and preparation tips.

33. List the teaching methods adopted by the faculty for different programmes.

Department of CSE persuades the teaching community to rely upon board teaching to deliver the course content. This practice keeps the students intact with the instruction, expands the mental horizon to visualize the intricacies involved in the problem and also makes the students to actively involve in solving engineering problems. The students are encouraged to take the running notes and highlight remarks. To motivate the students to go through the textbooks which offer the valid and consistent content sufficient number of prescribed textbooks are made available in the library. Digital library is also setup by the department featuring a collection of video lectures for which content was developed by the IITs, Stanford, MIT etc.

Never the less faculty members are encouraged to develop computer simulations demonstrating complex aspects of the subject through computer aided tools and to present them to the students in the classroom.

Teachers also take the right spirit in evaluating the students through giving practical assignments, conducting tutorials, by setting the mid question papers that quizzes the students abilities.

The Industry oriented Mini project and Major projects offer a scope to the students to consolidate the theoretical understanding and translating it into product development discipline. following are the teaching methods adopted by the College.

- Lecturing, Tutorials, Internal Quizzes, Internal Tests, Assignments, Seminars
- Mini projects, Technical paper publications, Major project and Guest Lectures

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Departments have established PEOs and POs approved by the College Academic Committee. NBA of AICTE recommendation of Program Attributes is also considered.

There is annual assessment of PEO and POs based on information obtained from the following tools. Every department of the college has planned method of assessment of PEOs and POs based on weighted concept of each tool. Efforts are put in to analyze where exactly the system efficiency has to be improved.

The following are the Direct Assessment tools:

- o Performance in the Mid and End semester exams.
- o Technical Paper presentations
- o Industry oriented mini projects
- o Job Placement Data

Indirect Assessment Tools are:

- o Alumni Survey
- o Employer Survey
- o Input from Department Advisory Committee
- o Graduate Exit survey

The Program Educational Objectives(PEOs) established by the Department are as follows:

PEOs are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

PEO 1: Employable : Computer Science and engineering graduates will acquire capability to apply their knowledge and skills to solve various kinds of computational engineering problems.

PEO 2: Professionalism: Graduates of computer science and engineering will exhibit the ability to function ethically and responsibly in their profession with active participation to uplift the societal status.

PEO 3: Interdisciplinary: Graduates of Computer Science and engineering will be able to perform successfully in various vertical domains like manufacturing, finance, utilities etc.

PEO 4: Continuous Learning: Graduates of computer science and engineering will continue to learn and to adapt in a world of constantly evolving technology.

PEO 5: Adaptability : Graduates of computer science and engineering will have soft skills to adapt the diverse global environment

The Program Outcomes(POs) established by the Department are as follows:

Program outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge, and behavior that students acquire in their graduation through the program.

PO1: Ability to apply knowledge of mathematics, probability & statistics, graph theory and logic as it applies to the fields of computer software and hardware.

PO2: Ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

PO3: Ability to design, implement and evaluate a computer-based system, process, component or program to meet desired needs.

PO4: Ability to use research methods to design and conduct experiments to investigate complex problems, as well as to analyze and interpret data.

PO5: Strong motivation towards modern tools and open source software and also contribute towards its development.

PO6: The broad education necessary to understand the impact of engineering solutions in an environmental and societal context.

PO7: Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Understanding of professional, legal, and ethical issues and responsibilities as it pertains to computer Engineering.

PO9: Ability to function effectively individually and in team, and in multi-disciplinary environment.

PO10: Ability to effectively communicate technical information in speech, presentation, and in writing.

PO11: Recognition of the need for ability to engage in lifelong learning

PO12: Understanding of the engineering and management principles required for project and finance management. For all the subjects Course Outcomes are also fixed. Typical case is presented below: Name of the Subject: **Software Engineering**

CO1: Analyze the principles at various phases of software development.

C02: Translate a specification into a design, and identify the components to build the architecture for a given problem, all using an appropriate software engineering.

CO3: Comprehend software engineering process models and their utility and limitations

C04: Understand professional, legal, and ethical issues and responsibilities as it pertains to computer science engineering.

CO5: Understand the software project estimation models and estimate the work to be done, resources required and the schedule for a software project.

SUBJECT CO TO PO MAPPING:

[illegible]

CO4: Understand professional, legal, and ethical issues and responsibilities as it pertains to computer science engineering.						H		H	H			
CO5: Understand the software project estimation models and estimate the work to be done, resources required and the schedule for a software project.							H					H

Correlation between the POs and the PEOs of the Department

PEO PO	PEO1	PEO2	PEO3	PEO4	PEO5
PO1	H		M	L	
PO2	H		H	M	
PO3	H		H	M	L
PO4	H	M	M	M	
PO5	H	H	M	M	
PO6	H	M	H	M	
PO7	M	H	M	H	
PO8	L	H			
PO9	M	M	H	L	
PO10	L	H		M	H
PO11	M		M	H	
PO12	H		M	L	

H- High

M-Medium

L- Low

Assessment of PEOs and POs are made by the department, fixing weightages for distinct tools. The Summary is presented below:

Assessment of PEOs (2010-2014 Batch)

	Expected(%)	Assessed(%)
PEO1	92	89.66
PEO2	92	89.92
PEO3	92	89.53
PEO4	92	89.65
PEO5	92	90.19

Assessment of POs (2010-2014 Batch)

	Expected(%)	Assessed(%)
PO1	92	88.57
PO2	92	89.81
PO3	92	89.55
PO4	92	89.20
PO5	92	88.11
PO6	92	89.73
PO7	92	90.11
PO8	92	90.09
PO9	92	91.51
PO10	92	90.41
PO11	92	89.91
PO12	92	89.18

Assessment of PEOs (2011-2015 Batch)

	Expected(%)	Assessed(%)
PEO1	92	90.47
PEO2	92	90.55
PEO3	92	90.34
PEO4	92	90.45
PEO5	92	90.92

Assessment of POs (2011-2015 Batch)

	Expected(%)	Assessed(%)
PO1	92	89.67
PO2	92	90.66
PO3	92	90.17
PO4	92	89.9
PO5	92	89.88
PO6	92	90.07
PO7	92	90.3
PO8	92	90.81
PO9	92	92.02
PO10	92	91.16
PO11	92	90.97
PO12	92	90.08

These analysis helps for the improvement in the curriculum as well as introducing Short term Programs for better job prospects.

Keeping in view the advice of technical experts College has already brought in many changes in academic regulations to make students to have rigorous preparation. Presently two mid exams are conducted and average is taken so that every student takes the both exams without fail.

Following are steps taken to improve learning outcomes.

- o Four Soft Skill Courses are introduced in each semester, with 2 periods per week to improve the performance of students in Campus Selections.
- o Drawing and lab content has been increased in the revised regulations.
- o Every two year there is review of curriculum.

35. Highlight the participation of students and faculty in extension activities

Students and faculty participates in various extension activities like:

- a) NSS: College has NSS unit approved by JNTU.
 - o Social awareness and responsibility enhancement talk organized for II B. Tech. students in the College campus on 6th November, 2013. Mr.Azmah Ali, Project Manager, Adult Literacy Programme, TCS, addressed 400 students and motivated them to take part in solving the society problems.
 - o A One-day Training programme on Computer based functional literacy (CBFL) conducted in the campus on 2nd January, 2014. 25 trainers from B.Tech. III Year have participated in the training session. At the training, trainees received Software, Primer and learnt how to conduct Literacy programmes in the villages.
- b) Blood Donation camp: Mega Blood Donation Camp conducted in the College Campus on 6th March, 2013 with Red-Cross Blood Bank, Vidyanagar, Hyderabad. 415 students and staff donated Blood in the camp. Every year Blood Donation Camp is organized.
- c) 5K run: It was organized to inculcate voting awareness among public and eradication of HIV..
- d) Donated computers to schools and given training to teachers.

36. Give details of “beyond syllabus scholarly activities” of the department.

Availability of learning beyond syllabus contents and promotion

- o Identify topics beyond syllabus and develop contents and modules
- o College encourages students to develop modules. Students compete at various

Competitions exhibiting their modules and receive prizes.

Learning beyond the syllabus

SNo	Name of Event	Month-year	Prize Winners
1	Technical Paper Presentation (Under ISTE)	February,	I prize -Nishanth. P M (IV Yr B. Tech.) II Prize--M. Pavan Chandra,
2	paper on “Adaptive Cruise Control” at Gitam University.	2009	I prize P.M. Nishanth , P. Kaushik, G. Thrishul Reddy
3	KRYPTOS, CVSR College of Eng (AAGAMA- 2011)	18 th 19 th Feb- 2011	I Prize, Rishikesh Reddy, IV Year
4	Technical Paper Presentation at CVRCE (Under ISTE)	March 2011	I prize Praneeth. J III Year
5	Technical Paper Presentation at CVRCE(Under ISTE)	March 2011	II prize M. Pavan Chandra III Year
6	Paper Presentation at National level Student Technical Symposium, ACE Engineering College,	5 th & 6 th March, 2012	II Prize P.Ratnakar Babu III Year
7	International Conference on Electrical Engineering and Computer Science (ICEECS), Goa, India	May, 2012	I Prize P.Deepak Reddy, K.Bala Subramanyam IV Year
8	CIENCIA-2K11	16 th &17 th March 2011	2 nd prize was bagged by Mr. Ateeb Shaik from CVRCE
9	CIENCIA-2K11	16 th &17 th March 2011	2 nd prize in Quiz was bagged by P.Srija from CVRCE
10	IT Security Event conducted at CVRCE	1 st & 2 nd March 2013	I Prize Jaimin upadhyay
11	Poster Presentation conducted at SNIST	22 nd to 24 th Feb 2013	I Prize K.Poojitha
12	Poster Presentation conducted at SNIST	22 nd to 24 th Feb 2013	I Prize P.Neetha Reddy
13	Programming Geeks Technical ability conducted at CVRCE	8 th and 9 th March 2013	P.Anjali 2 nd prize,CVRCE
14	Techno Trendz Innovative conducted at CVRCE	8 th and 9 th March 2013	Sathvik 2 nd prize,CVRCE
15	Mind Surz Innovative conducted at CVRCE	8 th and 9 th March 2013	Deepak Sathvik 1 st prize CVRCE
16	Tesoro Innovative conducted at CVRCE	8 th and 9 th March 2013	Divya, Radhika 2 nd prize, CVRCE
17	Click it Innovative conducted at CVRCE	8 th and 9 th March 2013	Shruthika, SindhuGona 1 st prize, CVRCE
18	Tic Tac Tock Innovative conducted at CVRCE	8 th and 9 th March 2013	MohitTiwari, Abhilash Reddy, 1 st prize ,CVRCE
19	Quiz conducted at CVRCE	16 th &17 th March 2013	I Prize P.Srija
20	Quiz conducted at CVRCE	16 th &17 th March 2013	II Prize Srilatha Nara
21	Creatox conducted at CVRCE	28 th sept- 2013	II Prize Jaimin upadhyay

22	Texaeots conducted at CVRCE	28 th sept-2013	I Prize Jaimin upadhyay
23	Elocution conducted at CVRCE	28 th sept-2013	I Prize Jaimin upadhyay
24	Innovative Tech Expert conducted at CVRCE	14th & 15th March 2014	G.sai Kumar 2 nd prize, CVRCE
25	Codathon Technical ability conducted at CVRCE	14th & 15th March 2014	M.Sreekanth 1 st prize, Vardhaman Krishna Pradhyumna 2 nd prize, CVRCE
26	Debug The 'Bug' Technical ability conducted at CVRCE	14th & 15th March 2014	D.Shiva Kumar 1 st prize, CVRCE M.Rakesh Reddy 2 nd prize, CVRCE
27	Web Strix Creative conducted at CVRCE	14th & 15th March 2014	C.SindhujaVeena 1 st prize, CVRCE G.Santhosh Reddy 2 nd prize, CVRCE
28	Hunt 'N' Code Technical ability conducted at CVRCE	14th & 15th March 2014	R.Vishwanath 1 st prize, CVRCE B.Sai Kumar 2 nd prize, CVRCE
29	Creative Code spy conducted at CVRCE	14th & 15th March 2014	Naresh 1 st prize, CVRCE Satwik 2 nd prize, CVRCE
30	HiJack++ conducted at CVRCE	26 th &27 th March 2015	I Prize Hitesh
31	Art Gallery conducted at CVRCE	26 th &27 th March 2015	II Prize R Pranay
32	Pro'Grammar' conducted at CVRCE	26 th &27 th March 2015	I Prize K.Mani Kumar Reddy
33	Football competiotion conducted at CVRCE	26 th &27 th March 2015	I Prize Samuel Vinith
34	PRO'GRAMMER'S PIT conducted at CVRCE	27 TH &28 TH March 2015	Nikhil Chakravarthy Ist Prize G.Ravali 2 nd Prize
35	CODE HUNT conducted at CVRCE	27 TH &28 TH March 2015	D.Shiva Kumar, Ist Prize P.Shruthi, 2 nd Prize
36	STREES CODING conducted at CVRCE	27 TH &28 TH March 2015	Vikesh Rao, Ist Prize Ruchi Upadhyay, 2 nd Prize
37	TECHNO FUNDA conducted at CVRCE	27 TH &28 TH March 2015	Chakradhar, 2 nd Prize
38	CODE-O-CODE conducted at CVRCE	27 TH &28 TH March 2015	N.Chakradhar, Ist Prize Nikitha, 2 nd Prize
39	TREASURE HUNT conducted at CVRCE	27 TH &28 TH March 2015	Surya, 1st Prize Tarun, 2 nd Prize
40	TECHNICAL PAPER PRESENTATION conducted at	27 TH &28 TH March 2015	K.Sai Sri Sruthi, 2 nd Prize

Additional topics incorporated beyond syllabus by identifying deficiencies:

Additional Topics Year and semester wise

B.Tech: Year-Sem	Course Name	Additional efforts
II - II	Object oriented programming lab	Updates from JDK 1.7 like Generic classes, enumerations, concurrent utilities are illustrated. Eclipse IDE is introduced.
	Computer Organization	Multicore related architectures of Optreon and Intel i7 are proposed to be covered
III-I	Principles of Programming Languages	Case studies for different languages will be covered

III-II	Microprocessors and Interfacing	Instruction set of ARM is covered
	Microprocessors and Interfacing Lab	Special kits are acquired to conduct the labs and to meet the outcomes.
	Web Technologies	Configuration of JBoss server, Tomcat Server Eclipse IDE plugins
	Wireless Networks and Mobile computing	Information security issues in mobile computing Caching Metrics Task-aware computing: A new computing paradigm

Keeping the industry expectations in mind, the CSE Dept instituted Tech Clubs at college level. Tech Clubs aim to provide hands-on exposure to students on various fields of Information Technology related to application Software, System Software and Embedded Software. In order to achieve this, various events are conducted ranging from tech talks by industry people, demonstration of mini projects by students. To mention a few....

CIT (Certification in Information Technology)

This program is the brain child of IIIT- Hyderabad under EQUITEC with CVRCE CSE under MoU. Two faculty members of CSE department underwent Two Month training ,from 17-5-2010 to 10-7-2010 at IIIT-Hyderabad while staying in IIIT Campus during that program.

Learning by Doing

A 60 day training programme aimed at enhancing ‘Advanced Data Structures’ programming skills and their applications in developing Search Engines using Java.

List of Students undergoing the training	Facilitators
08B81A0502,7,9,15,16,18,22,24,26,29,30,31,66,70,71,75,78,82,87,91,92,98,A2,A3,39,43,49,61,A5,A6,A8,B1,C3,C4,C5	Mr. Hanimi Reddy, Ms. Sowjanya

Video Lecture Presentations

- Video lectures from MIT Open Courseware Lectures, NPTEL, and Googletech talks are presented to students.
- Video lectures on java developed by Stanford University are presented to II year CSE students.

ADOBE FLEX Certificate Training Programme:

11 students of the CSE branch attended Adobe flex workshop organized by the Adobe Team on 4th and 5th March, 2011 and all of them have received certificates.

IUCEE Webinars

The Indo US Collaboration for Engineering Education (IUCEE) program was conceptualized by engineering education and businesses from US and India in 2007 to help create good quality engineering talent in order to find solutions to the global challenges.

CVRCE have registered for different Webinar courses offered by IUCEE virtual academy. Faculty and students have attended the webinars and interacted with resource persons. Under this program Compiler Design, Artificial Intelligence and Neural Networks and Computer Organization courses were offered.

The following table gives the schedule of the webinars.

FINAL SCHEDULE FOR IUCEE MINI COURSES		
Compiler Design (CD)	Artificial Intelligence and Neural Network (AINN)	Computer Organization (CO)
CSE SEMINAR HALL	CSE SEMINAR HALL	CSE SEMINAR HALL
06-Mar-2012 to 2-Apr 2012	27-02-2012 to 21-03-2012	21-03-2012 to 5-4-2012
10 Lectures	10 Lectures	10 Lectures

Students from CSE-III-A had attended Compiler Design lectures and actively interacted with the resource person.

Students from CSE-II-A&b had attended Computer Organization lectures. Only faculty members enrolled for AINN course.

Campus Connect (in collaboration with Infosys and JKC)

Campus Connect comprises 5 modules namely i. ICS, ii. OS iii. PST iv. P&T v. RDBMS. Upon Undergoing these modules students take two online exams one at the end of 3 module and the other at The end of 5 module, which is set by JKC but conducted in CVR College itself.

37. State whether the programme / department is accredited / graded by other agencies.

Give details:

Academic Year	Description
	NBA-AICTE Accreditation visits and accreditation granted, if any
2006-07	* The Accreditation Team has visited the College during 25 th to 27 th May, 2007. NBA-AICTE has issued orders in Order No.NBA/ ACCR-894/2007, Dt.12-09-2007, accrediting B.Tech. CSE, EEE, ECE & IT branches for a period of 3 years w.e.f. 12.09.2007.
2012-13	*The Accreditation Team has visited the College during 13 th to 15 th July, 2012. NBA-AICTE has issued order in Order File No.11-40/2010/NBA, Dt: January 29, 2013, accrediting B.Tech. CSE, EEE, ECE, IT & EIE branches for a period of 2 years.
2011-12 to 2013-14 (3 Years)	JNTUH has accorded autonomous status for a period of 3 years
2014-15 to 2019-20 (6 Years)	UGC, New Delhi has accorded Autonomy for 6 years
2012-13	UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC act dated 19 th June 2012.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department:

Strengths:

- o CSE Department is NBA accredited twice earlier.
- o The Department has 5 Professors, 9 Associate Professors and 29 Assistant Professors, meeting the requisite ratio of 1:15 specified by AICTE.
- o All the faculty members are well qualified, young, motivated and energetic teachers. The Department has rich experience of Professors drawn with experience in Research labs, Industries like ECIL and Universities like Osmania University and JNTU.

- o The Department has 14 programmers to assist students in the laboratories with either MCA, B.Tech or M.Tech. qualification.
- o The Department has well equipped laboratories and infrastructure, with intranet and internet facilities.
- o The Department has a good Department Library with sufficient number of latest text books covering different areas. It has good digital library collection.
- o The Department has a spacious AC Seminar Hall with a capacity of 150 students with LCD Projector.
- o More than 50% of students are being placed in the IT and ITES sectors every year. Some of them in product development companies.
- o A large number of students are pursuing higher education in reputed Universities in India and abroad.
- o About 10 faculty members have registered for research two of them have submitted and three more of them are in their submission stage, others all have completed their pre Ph.D exams.
- o There is lot of encouragement from the Management by providing study-leave for 15 months with salary to complete Ph.D. Monetary benefits are given to students and faculty member for research publications.

Weaknesses:

- o Being a recently established college we have been working on establishing the course curriculum and gaining perfection in Teaching Learning process. Hence department was unable to concentrate on project consultancy and industry funded projects.

Opportunities:

- o Open source software platforms are becoming available for Technology-Enhanced Learning, for widening the reach, and improving the effectiveness of Engineering Education.
- o Many alumni are offering substantial support to their Alma Maters.
- o Establishing Excellency centers in collaboration with industry for exposing students to learn latest methodologies of software development techniques in the industry.
- o UGC/DRDL is encouraging to carry out projects by sponsoring.

Challenges:

- o In the emerging GATS scenario, Quality concerns need to be addressed urgently.
- o Competition from international players and premier institutes.
- o Increasing the research output and increasing the quality level of the students.

39. Future plans of the Department:

- o Establishing an Computer Vision research lab which is a thrust area for research.
- o Acquiring a Multi Core Rack server along with tools to work in the area of parallel processing and parallel algorithms.
- o Establishing a laboratory with routers switches and network tools to enable students get hands on experience on networking and network management.
- o Establishing a Private and Hybrid Cloud environment exposing teachers and students to the problems of cloud applications and security issues.
- o Providing storage area network and NAS for existing labs after modernizing them by increasing their RAM capacity.

E.3. ELECTRONICS AND COMMUNICATION ENGINEERING

1. Name of the Department & its year of establishment:

Electronics and Communication Engineering

Year of Establishment: 2001

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Department offers the following programmes :

UG (B.Tech): Electronics and Communication Engineering with an intake of 240

PG (M.Tech): VLSI System design with an intake of 36

Embedded Systems with an intake of 18

Wireless & Mobile Communication with an intake of 18

3. Names of Interdisciplinary courses and the departments/units involved:

The following are the inter disciplinary courses offered by other departments to ECE Dept.

S.No	Subject	Year and Semester offered	Name of the Dept. offering	Credits
1	Mathematics -I	I year I sem	H &S	5
2	Engineering Physics	I year I sem	H &S	4
3	Engineering Drawing-I	I year I sem	Mech	2
4	English	I year I sem	H &S	4
5	Problem solving through 'C'	I year I sem	CSE	3
6	Mathematics-II	I year II sem	H &S	5
7	Data Structures through 'C'	I year II sem	CSE	3
8	Engineering Drawing-II	I year II sem	Mech	2
9	Engineering Chemistry	I year II sem	H&S	4
10	Electrical circuits	I year II sem	EEE	4
11	Mathematics – III	II year I Sem	H&S	3
12	Principles of Electrical Engineering	II year I Sem	EEE	3
13	Environmental Studies	II year I Sem	H&S	3
14	Control Systems	II Year II Sem	EEE	3
15	Reasoning and Logic Lab	II Year II Sem	H&S	2
16	Electrical Engineering Lab	II Year II Sem	EEE	3
17	Managerial Economics and Financial Analysis	III year I sem	H&S	3
18	Electronic Measurements & Instrumentation	III year I sem	EIE	3
19	Computer Organization & Architecture	III year I sem	CSE	4
20	Data Interpretation lab	III year I sem	H&S	1
21	Operating Systems (Elective –I)	III year II sem	CSE	3
22	Computer Networks (Elective –I)	III year II sem	CSE	3
23	Advanced English Communication lab	III year II sem	H&S	2
24	Quantitative Ability Lab	III year II sem	H&S	1
25	Object Oriented Programming through JAVA	IV Year I Sem	CSE	3
26	Management Science	IV Year II Sem	H&S	3

4. Annual/ Semester/Choice Based Credit System (Program wise):

Choice Based Credit System (CBCS) has been introduced from the academic year 2015-16 after approval of Board of Studies and Academic Council, with semester pattern from I Year IV Year for B.Tech and also for M.Tech.

B.Tech Ist Year and M.Tech Ist Year of 2015-16 admission batch have Choice Based Credit System. Senior classes of B.Tech. and M.Tech complete in earlier pattern.

5. Participation of the department in the courses offered by other departments: The following are the courses by ECE Department to other departments as per the course structure.

S.No.	Subject	Semester offered	Name of the Dept.	Credits
1	EDC (Electronic Devices & Circuits)	II year I sem	CSE	4
2	EDC (Electronic Devices & Circuits)	II year I sem	IT	4
3	EDC (Electronic Devices & Circuits)	II year I sem	EIE	4
4	EDC (Electronic Devices & Circuits)	II year I sem	EEE	4
5	S&S (Signals and Systems)	II year I sem	EIE	4
6	DLD (Digital Logic Design)	II year I sem	CSE	3
7	DLD (Digital Logic Design)	II year I sem	IT	3
8	LST (Logic & Switch Theory)	II year I sem	EIE	3
9	ECA (Electronic Circuit Analysis)	II year II sem	EIE	3
10	EC (Electronic circuits)	II year II sem	EEE	3
11	DLD (Digital Logic Design)	II year II sem	EEE	3
12	DCS (Data Communication system)	II year II sem	IT	4
13	PDC (Pulse & Digital Circuits)	III year I sem	EIE	4
14	POC (Principles Of Communication)	III year I sem	EIE	4
15	ICA (Integrated circuit Application)	III year I sem	EEE	4
16	MPI (Microprocessors and Interfacing)	III year I sem	CSE	4
17	ES (Embedded System)	III year I sem	IT	4
18	DSP (Digital Signal Processing)	III year II sem	EEE	4
19	DSP (Digital Signal Processing)	III year II sem	EIE	4
20	MP&MC (Micro processors & Micro controller)	III year II sem	EEE	4
21	MP&MC (Micro processors & Micro controller)	III year II sem	EIE	4
22	VLSI DESIGN	IV year I sem	IT	4
23	VLSI DEIGN	IV year I sem	EIE	4

6. Number of teaching posts (2015-16)

	Sanctioned (As per AICTE Norms)	Filled (As per AICTE Norms)
Professors	8	09
Associate professor	10	10
Asst. Professors	42	45
Total	60	64

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No.	Name of the Faculty	Qualification	Designation	Specialization	No. of Year of Experience in College	No. of Ph.D. Students guided for the last years
Program: B.Tech ECE						
	Prof..C.VenkatRao	M.E., MBA	Professor Emeritus	VLSI&ES	Teaching :11	NIL
	Dr.P.Subrahmanyam	Ph.D	Professor Emeritus	Embedded Systems	44	3
1	Wg Cdr Varghese Thattil	M.Tech, MBA	Professor & Head	Wireless Communications	Teaching:12 Industry :24	NIL
2	Prof.S.Sengupta	M.Tech, MBA	Professor & Dean Projects	IT & Communications	Teaching:11 Industry :24	NIL
3	Dr. Rajarshi Mahapatra	Ph.D	Professor	Communication Engg	5	NIL
4	Dr.Humaira Nishat	Ph.D	Professor	Wireless Communications	14	NIL
5	Prof. P. Viswanath	M.E	Professor	Microwaves	Industry: 35	NIL
6	Dr. K. Lalithendra	Ph.D	Professor	Microwaves	11	NIL
7	Mr.G.Ravi Shankar Reddy	M.E.	Assoc. Prof.	Systems &Signal Processing	11	NIL
8	Mr.P.Srinivasa Rao	M.Tech	Assoc. Prof.	Digital Systems &Computer Electronics	15	NIL
9	Mr. Karrar Hussain	M.Tech	Assoc. Prof.	VLSI	12	NIL
10	Mr. B. Ravinder	M.S	Assoc. Prof.	Communication & Microwave Engg.	15	NIL

11	Mr. D. Bhanu Prakash	M.Tech	Assoc. Prof.	Digital Systems & Computer Electronics	11	NIL
12	Mrs.K. A. Jyotsna	M.Tech	Assoc. Prof.	VLSI System Design	15	NIL
13	Mr. L. Manjunath	M.Tech	Assoc. Prof.	Computer Network	11	NIL
14	Ms.P.Kavitha	M.Tech	Assoc. Prof.	Microwave & Radar Engg	11	NIL
15	Mrs.Dhruva R.Rinku	M.Tech	Assoc. Prof.	Digital Systems & Computer Electronics	11	NIL
16	Mr.K.Srinivasulu	M.Tech	Assoc. Prof.	Electronic Design Technology	20	NIL
17	Mr. Shakeel Ahmed	M.Tech	Sr. Asst. Prof	Wireless Communication, Computer Networks, ES	16	NIL
18	Mr.M.Ashok	M.Tech	Sr. Asst. Prof	VLSI System Design	8.4	NIL
19	Mrs.Athira G.Krishna	M.Tech	Sr.Asst. Prof.	VLSI System Design	13	NIL
20	Mrs.A.Anitha	M.Tech	Asst. Prof.	Digital Systems & Computer Electronics	13	NIL
21	Mrs.M.V.Sushumna	M.Tech	Asst. Prof.	VLSI System Design	10	NIL
22	Mr.R.Prakash Kumar	M.Tech	Asst. Prof.	Digital Systems & Computer Electronics	7	NIL
23	Mr.K.Bapayya	M.Tech	Asst. Prof.	Digital Electronics Communication Systems	9	NIL
24	Mr.B.Janardhana Rao	M.Tech	Asst. Prof.	Communication & Radar Systems	8	NIL
25	Ms. A. Malleswari	M.Tech	Asst. Prof.	Digital Electronics and Communication Systems	7	NIL
26	Ms. P.Naga Malleswari	M.Tech	Asst. Prof.	Communication & Signal	9	NIL
27	Mr. S Ravi Kanth	M.Tech	Asst. Prof.	Communication Systems	6	NIL
28	Mr. B. Shankar	M.Tech	Asst. Prof.	VLSI & Embedded	5	NIL

53	Dr.T.EstherRani	Ph.D	Professor	Low Power VLSI	15	NIL
54	Mr.R.Ganesh	M.Tech	Sr. Asst. Prof.	VLSI System Design	6	NIL
55	Mrs.V.Silpa Kesav	M.Tech	Asst. Prof.	VLSI Design	6	NIL
56	Mrs. K.Venkatalaxmi	M.Tech	Asst. Prof.	Digital Systems & Computer Electronics	17	NIL
57	Ms. Ch. Hema Latha	M.Tech	Asst. Prof.	Electronics & Communication Engg.	8	NIL
58	Ms. G. Vijaya Nirmala	M.Tech	Asst. Prof.	Communications & Signal	4	NIL

M.Tech Embedded Systems (Core faculty)

59	Dr. K. Lal Kishore	Ph.D.	Professor & Dean, Research	VLSI Design	34 Years	21
60	Ms.S. Sailaja	M.Tech	Asst. Prof.	Embedded Systems & VLSI	9	NIL
61	Ms. T.Sravanthi	M.Tech	Asst. Prof.	Digital Electronics and Communication Systems	9	NIL

M.Tech Wireless & Mobile Communication (Core faculty)

62	Dr. K.S. Nayanathara	B.E., M.E., Ph.D.	Professor of ECE & Principal	Microwave & Radar Engg.	Teaching 26 Industry 3	3
63	Mr. M. Srinivas	M.Tech	Asst. Prof.	Visual Information & Embedded Systems	3	NIL
64	Mrs. T.Padmvathi	M.Tech	Asst. Prof.	Systems & Signal Processing	10	NIL

8. Percentage of classes taken by temporary faculty – programme-wise information:

This Department has no temporary faculty. All the faculty members are regular.

9. Program wise student teacher ratio

SL. No	Program	Student Teacher Ratio
1.	B.Tech	13.8:1
2.	M.Tech	12:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and Filled

	Sanctioned	Filled
Staff (Technical) (2015-16)	11	11
Staff (Technical) (2014-15)	10	10
Staff (Technical) (2013-14)	10	10
Staff (Technical) (2012-13)	9	9

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of the funding agencies and grants received project-wise.

i) RFID PROJECT

The ECE department had established a centre for RFID in the year 2007, headed by Prof. Sengupta, Dean-Projects, CVRCE. Prof. Sengupta had long service in ECIL, Hyderabad and retired as Executive Director, ECIL. The Centre for RFID, has created a core group, involving two or three faculty from ECE and other Engineering Departments, who have exposure in RFID. This core group has started functioning from 2007. This was completely institutional funded project. The Management of the college has spent about Rs. 17 lakhs during the three year period. The work was taken up by ECE department with Prof. S. Sengupta, Dean-Projects supported by about 10 faculty members from CSE, EEE and EIE departments. The following faculty members were actively involved in this project from ECE department.

1. Prof. S. Sengupta
2. Dr. S. Venkatachalam
3. Dr. Nayanathara K S
3. Prof. Wg Cdr Varghese Thattil
4. Mrs. Dhruva R Rinku
5. Mr. Shakeel Ahmed

ii) Projects Under DRDO:

Three projects were sanctioned by DRDO, Hyderabad over last two years and the projects have been executed exclusively by ECE department under the leadership of Prof. S. Sengupta, Dean-Projects with a team of the following faculty members:

Prof. S. Sengupta
 Dr. Nayanathara K S
 Prof. Wg Cdr Varghese Thattil
 Mrs. Dhruva R Rinku
 Dr. Humaira Nishat
 Mr. P. Srinivasa Rao
 Dr. T. Esther Rani
 Mrs. T. Padmavathi
 Mr. R. Ganesh
 Mr. B. Shankar
 Mr. K. Bapayya

An amount of Rs. 18 lakhs was received and spent for the following 2 Projects during 2012-13 & 2013-14:

Title	Amount	Sponsoring Agency
Data Acquisition System (DAS) Hardware	900000	DRDO, Hyderabad
Data Acquisition System Software - DAS-SW	900000	DRDO, Hyderabad

a) Data Acquisition System (DAS) Hardware

The Data Acquisition System (DAS) hardware is a modern hardware system for sampling, storing and representing large number of analog, digital channels along with digital input/output and serial channels. CVR is an autonomous engineering college sanctioned by UGC with infrastructure for VLSI including FPGA based design. Large number of M.Tech students and trained faculty are available to develop the required hardware. The objective of the project is to develop a FPGA based DAS employing Power PC hardware and other required hardware such as Analog to Digital Converter (ADC), Digital to Analog Converter (DAC), DIOS, RS232 channels.

b) Data Acquisition System Software - DAS-SW

The FPGA based Data acquisition system software caters for accepting the data from various hardware subsystems such as Analog to Digital Converter (ADC), Digital to Analog Converter (DAC) Digital Input Output System (DIOS) and RS422 serial channel. The software stores the data in a formatted way for easy retrieval & presentation. The aim of the project is to develop the software in FPGA with power PC as (Hardcore), BRAM, SDRAM along with ADC (16 channels) DAC (4 channels), DIOS (32 no's) and RS422 (4 channels).

iii) Development of Robust and Low Cost Unmanned Aerial Vehicles (UAV) for Surveillance & Commercial Applications R &D work:

The project is funded by the college management. The college management has already funded Rs 6.5 lakhs towards this project. The above area was chosen for R & D work because, in due course, the work becomes an inter- disciplinary subject and can draw both faculty and students of different departments. Presently, the faculty of ECE department have initiated this project involving seven M.Tech.(ES) students, naming it as " UAV PROJECT".

1. **A Sensitive Thrust Measuring Instrument** has been developed to measure the thrust produced by the Motors used in UAVs. It plays a key role in the design and fabrication of UAVs. We used this instrument to develop UAVs for Agricultural Applications mentioned above.



2. **A UAV Test Jig (first stage)** has been designed and developed to minimize the imbalances in UAVs. UAV Test Jig is used to fine tune UAVs to fix its performance.



3. **Aerial survey of Agricultural land :** Aerial Survey plays a significant role in Agriculture. With a GoPro camera fitted on UAV, our UAV team developed an application to conduct Aerial Survey of agricultural land. This idea is useful, by taking videos of the land periodically and comparing with previous records. By this, we can extract valuable information like, distribution of water to the plants in the agricultural field, pest infected zones in the land, crop, yield, etc. This is the cheapest method to conduct aerial survey of lands.



4. **Animal and Bird menace:** Animal and Bird menace is a common problem to farmers. While animals like wild pigs spoil the crops, birds eat away most of the produce (grains, sunflower seeds, etc.). This menace can be minimized by scaring them with loud sounds and/or by shining intense light into their eyes. UAV Team developed a solution to this problem by mounting Air Horn and Powerful Light Source on the UAV and making it hover in the sky randomly in the farmer's land, to scare away birds and animals.



5. **Building High Payload UAVs:** Its main application is spraying pesticides from UAVs. Designing a UAV to spray pesticides in the agricultural requires addressing a number of design metrics like payload versus. the power source, capacity of the pesticide tank, time of flight per one time charge of batteries etc. Presently, we could carry a payload of nearly one Gallon of pesticide on UAV and spray.



- iv) **To set up a SDR (Software Defined Radio) Research laboratory:** Wireless communication systems consist of an RF front end used for transmitting/receiving a signal at the appropriate frequency and a back end that perform various signal processing tasks. A software defined radio (SDR) is a system that attempts to do as much of the signal processing as possible in software. Given an RF front end capable of converting desired range of frequencies to and from raw digital samples at a rate suitable to the computer, any sort of signal processing that can be programmed on the computer can be used for receiving and sending RF signals. GPS, FM radio, HDTV, RFID, Wi-Fi and more can all be done from the same computer without any digital signal processing hardware specific to any particular scheme.

The lab will have universal software radio peripherals(USRPs), each of which interfaces with a desktop computer via USB interface. Each radio has the capability to communicate in various frequency bands ranging from hundreds of megahertz to few giga Hertz.



- v) **Projects Under ECIL :**

Multi-Channel Analyzer: ECIL has contacted CVR college of Engineering for developing the Multi-Channel Analyzer (MCA). This is an R&D project of ECIL. MCAs are used in nuclear instruments for different applications like Isotope Identification, Alpha/Gamma spectroscopy, Liquid scintillators, etc., which demand wide resolution. Basically the analog inputs. Types of radiation detection are processed and then digitized by an ADC. The digital value of various channels are plotted on a histogram of the nuclear of counts various pulse height, i.e., pulse height spectrum. The range of pulse heights will be analyzed by the MCA for various types of detection. An FPGA having micro controller & DSP is used for peak detection, counting and histogram calculation. Smart Fusion2 FPGA SoC consisting of flash based FPGA fabric 166MHz ARM Cortex-M3 processor and communications interfaces on a single chip. It consists of the following modules.

Note : Approval in progress.

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received.

- i) **The following information provides the details of AICTE funded MODROBS and IIPC projects along with total grants received:**

a) MODROBS

The Department of ECE has applied for MODROBS Scheme in 2012 with a budget estimate of Rs.19,03,200/-. It got sanctioned with a budget of Rs 10, 80,000/- (Rupees Ten lakhs eighty thousand only) and an advance of Rs 8,61,638/- was received from AICTE. The equipment of the communication laboratory of the department of ECE is continually upgraded and modernized. M.Tech course in Wireless and Mobile Communications was started in 2011. Separate communications labs for M.Tech have been established as per requirement. It was now felt that the facilities in the communications area must be improved in a big way to motivate the UG & PG students to work on sophisticated equipment for their projects. The aim is to enable faculty members to take up research in communications. Under MODROBS, equipment has been added to establish state of the art facilities in the communication lab to train faculty & students in latest techniques. The project has been successfully completed submitting utilization certificate to the AICTE in 2014.

b) Industry Institute Partnership Cell (IIPC)

The CVR College of Engineering was sanctioned Rs. 12, 00,000/- by AICTE (Sanctioned Number: 14-22/RIFD/IIPC/POLICY-1/2013-14) for Industry Institute Partnership Cell (IIPC) of which Rs. 8,00,000/- was received from AICTE for the first year program.

The main purpose of the above items are to develop the systems for the industry usage namely Video-Analytics system for ECIL for security in vital installations. A national program was conducted on Computer Vision dealing with Computer Analytics and MRI Magnetic Resonance Imaging (MRI) systems on 6th and 7th March 2014. This program was for two days and was attended by representatives from ECIL, BDL, DRDO, IISc, National Brain Research Centre (NBRC), and Hyderabad Central University (HCU). A proposal was submitted to MHRD against their request for proposal for starting an Center of Excellence (CoE) at CVRCE.

Main program for the future is to progress on the Video-Analytics and make a success of Zero-Fault Alarm Video Analytics System for automatically detecting intrusion through video processing.

- ii) **UGC Research Award to Dr. T. Esther Rani :** The following information provides the details of UGC Grants received under UGC Research Award Scheme :

Design of Self-Sleep circuit to minimize Stand-by power for VLSI and Embedded Applications: Leakage Power is considered as major concern in deep sub-micron VLSI designs. In 90-nm technology and 2GHz clock frequency, the self-sleep buffer consumes only 1.46uW in active mode, while eliminating the sleep distribution networks overheads and providing fast, low-energy active to stand-by to active transitions. The standard cells for low power are to be designed at the circuit level from which the architecture and top-level system are built. The standard cells operate with multi threshold (MTCMOS) and low power design of the system is achieved. A system is proposed with a modified self-sleep buffer for further optimization of power, that suits VLSI and Embedded applications.

Salary for Dr. T. Esther Rani is fully supported by UGC for two years.

Funding Agency : UGC under the Research Award Scheme.

Research Awardee: Dr. T. Esther Rani, Professor of ECE

Research Grant : Rs.14,08,084/- Received for the year 2014-15

Rs.20,00,000/- To be received for the year 2015-16

13. Research facility / Centre with

State Recognition: The department has advanced laboratory Centers in the field of VLSI, Communications, Embedded Systems, and Microwave etc. The Department has applied for Recognition by JNTU Hyderabad as Centre for Research. The application is however pending.

National Recognition: The department has recognition from EDA companies like Xilinx, Cg-Corel etc to support academics and research as part of University Program.

International Recognition: The department has recognition from Cadence Design Systems (product based EDA Company) to support academics and research as part of University Program; Particularly in VLSI cadence Tools, which is updating continuously as well as to provide training to concerned faculty. Renewal remittance is made biannually in dollars. This was based on MOU signed with Cadence, New York in 2004 .

14. Publications:

Faculty Publications

Number of papers published in peer reviewed journals (national / international)

S.No.	Year	Number of Publications
1	2014	25
2	2013	25
3	2012	20
4	2011	16

(Details are available in the Department file, not included here for want of space)

Monographs:

Lab Manuals- I Semester

Lab manuals are printed, updated regularly and supplied to students

Branch and Year	Name of the Laboratory	Lab Manual Prepared By
II YEAR I SEM	Electronics Devices & Circuits	Mrs. K.A. Jyosthna
II YEAR I SEM	Basic Simulation	Mr. B. Janardhan Rao
III YEAR I SEM	Analog Communication	Dr. Humaira Nishat Mr. R Prakash Kumar
III YEAR I SEM	IC Applications	Mrs. K. Venkata Laxmi
IV YEAR I SEM	ECAD & VLSI	Mrs. V. Silpa Kesav
IV YEAR I SEM	Microwave & Digital Communications	Mrs. P. Kavitha

Lab Manuals- II Semester

Branch & Year	Name of the Laboratory	LabManual Prepared By
II Year II Sem.	Electronic Circuit Analysis	Mrs. K.A.Jyosthna
II Year II Sem.	Pulse and Digital Circuits	Mrs. A.Anitha
III Year II Sem.	Microprocessors and Microcontrollers	Mrs. Dhruva R Rinku
III Year II Sem.	Digital Signal Processing	Mr. B. Janardhan Rao

- Chapter(s) in Books : NIL
- Editing Books : NIL
- Books with ISBN numbers with details of publishers:

CVR Journal of Science and Technology with ISSN number 2277-3916.

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average: NIL
- SNIP: NIL
- SJR: NIL
- Impact Factor – range / average in range of 0.2 to 4.43
- Hi-index

15. Details of patents and income generated

Dr. T. Esther Rani has a patent on "Self Sleep Device For Low Power VLSI Applications" published in the Official Journal of the patent office published on 30/05/2014 with an issue number 22/2014 bearing application number 2376/CHE/2013.

16. Areas of consultancy and income generated

DRDO Hyderabad, Government of India, Ministry of Defense Organization entered MOU with CVR College of Engineering to undertake the following R&D Projects. The work has been executed exclusively by ECE Department under the leadership of Prof. S. Sengupta, Dean-Projects with a team of faculty members. An amount of Rs. 9 lakhs was received and spent for this project during 2012-13 & 2013-14.

Development of Orthogonal Frequency Division Multiplexing (OFDM)

The Orthogonal Frequency Division Multiplexing (OFDM) is a state of the art modulation technique for high speed wireless communication with resistant to fading. ECE Department has infrastructure for developing cutting edge communication technology with modern VLSI tools and large number of M.Tech (VLSI) students and trained faculty. It is thereby expected that the college infrastructure is used for DRDO's technology initiatives in a cost effective and cooperative way. Towards this DRDO's requirement and CVR's capability were explored.

The objective of this work is to develop the FPGA based OFDM technology bulk modulator and demodulator for high speed data transmission on wireless media. Though the technology is extremely spectrum efficient, it has some tolerance problems which are also to be addressed. The modulation will be QPSK and 8 sub carriers will be used. The technology can be used by DRDO for high speed flat fading synchronized wireless data transmissions.

17. Faculty recharging strategies

- The Department organizes the following activities under recharging strategies:
- For newly joined faculty a two week orientation and communication skills FDP.
- Guest Lectures for the benefit of staff and students.
- Department organizes workshops for our staff and other colleges staff, students and industry people.
- Sponsoring of our teachers to other colleges.
- Incentives for publishing technical papers
- Incentives for text book writing.
- Granting eight months leave with pay twice for doing PhD
- The Department has been active with above strategies.

18. Student projects

- Percentage of students who have done in-house projects including inter-departmental: 80%
- Percentage of students doing projects in collaboration with industries / institutes: 20%

19. Awards / recognitions received at the national and international level by

- **Post Doctoral**
 - 1) Dr. Rajarshi Mahapatra, Post Doctoral from CEA – LETI, Grenoble, France during 2010-11.
- **Doctoral**
 1. Dr. T.Esther Rani – Ph.D. from JNTU Hyderabad in March 2014.
 2. Dr. Humaira Nishat - Ph.D. from JNTU Hyderabad in May 2014
 3. Dr. G.V. Maha Lakshmi - Ph.D. from JNTU Hyderabad in May 2014
 4. Dr. K. Lalithendra - Ph.D. from IIT, Delhi in October, 2015
- **Recognition :**
Dr. K.S. Nayanathara – Member, IETE Governing Council
Senior Member IEEE
- **Awards:**
 1. **Prof. S. Sengupta** received National Design Award in 2002 for outstanding contribution in the field of Engineering Design by the Institution of Engineers (India).
 2. **Dr. K. Lal Kishore** has received many Awards at National and International level. Some of them are,
 - He was the Vice Chancellor of the JNTU Anantapur from 2012-15.
 - Guided 21 Ph.D scholars who completed their Ph.D successfully.
 - Best teacher award for the Year 2004 – awarded by Government of Andhra Pradesh to the university teachers.
 - **Sir Mokshagundam Visweswaraya Award** from Govt. of Andhra Pradesh and Institution of Engineers, Hyderabad chapter, in **SEPTEMBER 2010**
 - Received **11th IETE – Prof. SVC Aiya Memorial Award in 2007** for recognition of Exemplary contribution in guiding students, researchers and teachers for research work in the field of Electronics & Telecommunications Engineering during the last five years

- Presented with **Distinguished Indian Award** for achievements in Academic, Research and Development at the International Conference ICSCI 2007, on January 03 – 07, 2007.
 - Won **First Babu Seetharam Memorial Award** for Outstanding Contribution in the field of Electronic Components in 1986.
 - **Eminent Electronics and Communications Engineer Award** from Institution of Engineers (IEI) India, Nov'2012.
 - **Citation and Award from Andhra University and IEI, Visakhapatnam, Nov'2012.**
 - **U.P. Government National Award** for outstanding work done in specified areas of engineering and Technology 2012.
 - **Award for Outstanding Contribution** to World, given by WORLD CHANCELLORS & VICE CHANCELLORS Education Congress, 30th June' 2014.
 - **CCI Technology Education Excellence Award 2014 to JNTUA, Mumbai.**
 - **Edu Clusion Award at Re-Engineering India Award 2014, SEPT'2014, Singapore.**
 - **Elected Fellow of A.P. Akademi of sciences** in recognition of contributions to Science and Technology.
3. **Dr. T. Esther Rani** has received UGC Research Award. This will give a benefit of full salary paid by UGC for 2 years and an additional research grant of 3 lakhs for a period of 2 years from March 2015 to February 2017. Title of the Project sanctioned is "Design of modified self-sleep buffer for Distributed MTCMOS Technique in Arithmetic and Fast Computations".

• Faculty

Prof. C. Venkat Rao – Senior Member, IEEE
 Wg Cdr Varghese Thattil – Fellow member of IETE
 Dr. T. Esther Rani – Member, IEEE
 Mrs. K.A. Jyothsna – Member, IEEE
 Mr. G. Ravi Shankar Reddy- Member, IEEE
 Mr.P.Srinivasa Rao – Member, IEEE
 Mrs. Dhruva R Rinku – Member, IEEE

• Students

Awards given to the students by college:

Sl.No.	Award	Name of the student(s)
1	Late Sri. M. Madan Mohan Gold Medal for the student scoring the highest aggregate in B.Tech in ECE Branch	Ms. Bhattiprolu Swathi Roll. No. 09B81A04A1
2	Cash Award for the best B.Tech. Project in the subject of VLSI Design in memory of Late Prof. RVB Chary of the College (To be shared among the project group members).	Mr.B.Manoj Roll. No. 09B81A0440 Mr. D Nagarjuna Roll. No. 09B81A0443 Mr. G Prashanth Kumar Roll. No. 09B81A0456
3	Cash Award for the best B.Tech Project in each of the branches (To be shared by the members of the project group).	Mr. T. Ravi Kumar Roll. No. 09B81A0469 Mr. B Sairam Roll. No. 09B81A0479 Mr. T Teja Reddy Roll. No. 09B81A04A5

4	Cash Awards to the Toppers of each branch other than those who won Gold Medals	Ms. Verrisetti Bindu Madhavi Roll. No. 09B81A0417
5	Late Prof. P. Narsimha Reddy Gold Medal for the best Girl Student scoring highest aggregate marks in B.Tech among all branches.	Ms. Palla Sindhuja Roll. No. 10B81A0491
6	Late Sri. M. Madan Mohan Gold Medal for the student scoring the highest aggregate in B.Tech in ECE Branch.	Ms. Palla Sindhuja Roll. No. 10B81A0491
7	Cash Award for the best B.Tech Project in the Subject of VLSI Design in memory of Late Prof.RVB Chary of the College. Rs.6,000/-	Ms. N Manasa Reddy Roll. No. 10B81A0437 Ms. K Bhavana Roll. No. 10B81A0413 Ms. S Aishwarya Roll. No. 10B81A0426
8	Cash Award for the best B.Tech project in each of the branches Rs.6,000/-	Ms. Anumula Deepthi Reddy Roll. No. 10B81A0417
9	Cash award to the toppers of each branch other than those who won Gold Medals.Rs.6,000/-	Mr. L. Chaitanya Sri Krishna Roll. No. 10B81A0414
10	Aggregate 86.31% Received Late Prof. P Narasimha Reddy Gold Medal for the best girl student with highest aggregate in B.Tech. among all branches of CVR College of Engineering.	Ms. M ASWINI Roll. No. 07B81AO418

11	Aggregate 86.31% received Late Sri. M Madan Mohan Gold Medal for the student scoring the highest aggregate in B.Tech. among all branches.	Ms. S INDUPRIYA REDDY Roll. No. 07B81A0432
12	Late Prof. P Narasimha Reddy Gold Medal for the best girl student with highest aggregate in B.TECH among all branches.	Ms. G SREEJA Roll. No. 08B81A04A1
13	Late Sri. M Madan Mohan Gold Medal for the student scoring the highest aggregate in B.Tech among all branches.	Ms. G SREEJA Roll. No. 08B81A04A1

20. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

Sl. No.	Workshop Organized / Course conducted	Source of Funding	Dates
2014-2015			
1	Workshop on emerging trends in Research Areas	CVRCE	2nd-4th November,2015
2	Workshop on advanced VLSI Design	CVRCE	21 st ,22 nd ,28 th Feb,1 st & 7 th Mar,2015
3	Workshop on “Computer Vision :Industry-Institute Partnership Cell”	CVRCE	6 th & 7 th March, 2015
4	Workshop on Circuit Design & PCB Fabrication	CVRCE	14 th &15 th Feb, 2015

5	Workshop on Cadence Tools: Installation & Practice	CVRCE	10th-12th November,2014
6	Distinguished Lectures on “Initiation of Research Activities”	CVRCE	7 th & 8 th Oct,2014
2013-2014			
1	Robotics Workshop on Android Mobile Controlled Robot	CVRCE	21st-22nd September,2013
2	Short term course on VLSI Design using Xilinx and Cadence tools	CVRCE	2nd -5th December,2013
3	Conference on Computer Vision Industry Institute Partnership Cell(IIPC)	AICTE	6th -7th March, 2014
4	Three day training on Cadence tools (Installation & Practice) in association with Cadence Design systems, Bangalore.	CVRCE	10th -12th November, 2014
2012-2013			
1	Workshop on MATLAB	CVRCE	13-15 December,2012
2	Two day workshop on Full custom design using Cadence tools(Part of CIENCIA-2K13)	CVRCE	8-9 March,2013
3	Six day workshop on ASIC Physical Design using Cadence tools	CVRCE	Feb-March 2013
4	Workshop on Embedded Linux device drivers(Part of IEEE chapter)	CVRCE	31st March 2013
2011-2012			
1	Workshop on Semicustom design flow using Cadence tools	CVRCE	29th June - 01st July 2011
2	One day seminar on ASIC Design Verification at IETE Hall OU Campus	CVRCE	13th November 2011
3	Eight Day Workshop on ASIC Physical Design Using Cadence Tools	CVRCE	6th Aug to 3rd Sep (only on Saturdays & Sundays)
4	Workshop on Standard Cell based ASIC Design flow using Cadence tools in association with Cadence Design Systems	CVRCE	20-22 June,2012
2010-11			
1	Workshop on VLSI Design using Xilinx Tools	CVRCE	Dec, 2nd – 3rd , 2010
2	Three day workshop on semi-custom design flow using Cadence Tools	CVRCE	June 29th –July 01st, 2011

21. Student profile course-wise:

Sl. No.	Name of the Course (refer question no. 2)	Applications received	Selected For 2014-15 Admissions		Pass percentage Passed in May 2014		Selected For 2015-16 Admissions		Pass percentage Passed in May 2015	
			Male	Female	Male	Female	Male	Female	Male	Female
1	B.Tech ECE	Admissions are made by state level convener appointed by govt. based on EAMCET Rank / PGECET Rank	148	92	95	98	157	83	98	100
2	M.Tech VLSI		14	13	100	100	9	15	100	100
3	M.Tech ES		4	10	100	100	1	13	100	100
4	M.Tech WMC		5	4	100	100	1	7	100	100

22. Diversity of Students

A.Y 2015-16	Name of the course	% of students from the college	% of students from the state	% of the students from other states	% of students from other countries
	B.Tech	0	100	0	0
	M.Tech (VLSI)	0	100	0	0
	M.Tech(ES)	0	100	0	0
	M.Tech(WMC)	0	100	0	0

23. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

<u>S.No.</u>	YEAR	GRE	TOFEL	CAT	IELTS	GATE
1.	2011	17	14	6	0	6
2.	2012	15	9	9	0	6
3.	2013	22	10	3	10	17
4.	2014	16	4	0	8	12
5.	2015	24	6	0	9	3

24. Student progression

Student progression	YEAR					Percentage against enrolled				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
UG to PG	14	21	32	34	24	11	17.55	17.78	28.33	10
PG to M.Phil.	0	0	0	0	0	0	0	0	0	0
PG to Ph.D.	0	0	0	0	0	0	0	0	0	0
Ph.D. to Post-Doctoral	0	0	0	0	0	0	0	0	0	0
Employed	99	89	49	84	120	83	74	27	47	50
Campus selection										
Other than campus recruitment										
Entrepreneurs	0	0	0	0		0	0	0	0	

25. Diversity of staff

Name of the Programme	% of Faculty from the same university	% of Faculty from other universities within the State	% of Faculty from universities outside the State	% of Faculty from other countries
UG	38(59.37)	4(6.25)	22(34.37)	0
PG	35(54.68)	7(10.93)	22(34.37)	1(1.56)
Ph. D	3(4.68)	1(1.56)	2(3.12)	0

26. No. of faculty who were awarded M.Phil, Ph.D., D.Sc., D.Litt during assessment period

The following faculty members were awarded Ph.D. degree.

Sl.No.	Name	Specialization	Year of award
1.	Dr. G.V. Maha Lakshmi	Digital Image Processing	2014
2.	Dr. T. Esther Rani	VLSI	2014
3.	Dr. Humaira Nishat	Communications	2014
4.	Dr.K.Lalithendra	Microwaves	2015

27. Present Details about Infrastructural Facilities

i) Library

Central Library(ECE)

- Total no. of titles : 1567
- Total no. of volumes : 8811
- Total no. of national journals : 29
- Total no. of international journals : 20
- DELNET ebooks-Read online : 1298
- E-Journals : 707

- DELNET- IESTC- eJournals : 2233
- Seating capacity : 350
- Working hours : 9AM to 6PM
- e-Journals
- IEEE RFID Virtual Journal

Also has Open Source software and NPTEL & MIT online lectures.

Department Library

- Total no. of titles : 354
- Total no. of volumes : 444

ii) Internet facilities for staff and students:

Name of the Internet provider : Apollo Vaishnavi BSNL
 Available bandwidth : 75Mbps 35Mbps 10Mbps
 Access speed : 2Mbps (max) for individual

- Availability of Internet in an exclusive lab : **Yes Available**
- Availability in most computing labs : **Yes Available**
- Availability in departments and other units : **Yes Available**
- Availability in faculty rooms : **Yes Available**
- Institute's own e-mail facility to faculty/students : **Yes Available**
- Security/privacy to e-mail/Internet users : **Yes Available**
- Wi-Fi is available in spots

iii) Total number of class rooms: 16

All rooms have OHP, dual desks, glass board, Table & chair for teacher, fans, tube lights, curtains to all windows. Most of the class rooms have LCD Projectors.

iv) Class rooms with ICT facility: 4

v) Students Laboratories:

The following are the laboratories for the students:

Laboratory description in the Curriculum	Room No	Number of experiments	Quality of instruments	Lab Manuals
Communication Lab	118MB	14	Good	Available
IC & PDC Lab	206MB	17	Good	Available
VLSI & ECAD Lab B.Tech Projects	217MB	16	Good	Available
Communication Simulation Lab	114MB	17	Good	Available
Microwave & Digital Communication Lab	303MB	16	Good	Available
Embedded Systems Lab	320MB	For Project work	Good	Available

MP& MC Lab	219MB	17	Good	Available
Electronic Devices & Circuits Lab	323MB	13	Good	Available
WMC Lab	312MB	For Project Work	Good	Available

MB: Main building of the College

vi) Research Laboratories:

M.Tech students have three regular labs and three research labs for three specializations.

M.Tech Regular labs:

Laboratory description in the Curriculum	Room No	Number of experiments	Quality of instruments	Lab Manuals
M.Tech. Embedded Systems Lab	320MB	12	Good	Available
M.Tech. VLSI Lab	216MB	12	Good	Available
M.Tech. WMC Lab	312 MB	12	Good	Available

Note : 3 Research labs, one for each specialization are available.

28. Number of students of the department getting financial assistance from College.

Course Year	No. of Students Aailed Financial Assistance from State Govt.					
	2014-15 (Yet to be Received)	2013-14 (Aailed)	2012-13 (Aailed)	2011-12 (Aailed)	2010-11 (Aailed)	2009-10 (Aailed)
I Year	99	101	115	74	48	56
II Year	99	114	72	48	56	49
III Year	114	73	50	57	43	41
IV Year	73	48	57	42	36	43

Sl. No.	Course	Course Year	No. of Students Aailed Financial Assistance from State Govt.					
			2014-15 (Yet to Received)	2013-14 (Aailed)	2012-13 (Aailed)	2011-12 (Aailed)	2010-11 (Aailed)	2009-10 (Aailed)
1	M. Tech. (VLSI Design	I Yr.	12	5	10	0	6	8
		II Yr.	5	10	10	5	6	9
2	M. Tech. (WMC)	I Yr.	6	7	8	0	0	0
		II Yr.	7	8	5	0	0	0
3	M. Tech. (E.S)	I Yr.	4	3	7	0	2	10
		II Yr.	3	7	4	2	9	0

State government has a policy of reimbursement of tuition fee for all students and courses based on income limit.

GATE Scholarship students information								
for the last six academic years (i.e., 2009-10 to 2014-15)								
Sl. No.	Course	Course Year	No. of Students Availied Financial Assistance from Central Govt.					
			2014-15	2013-14	2012-13	2011-12	2010-11	2009-10
			(50% Yet to Received)	(Avalied)	(Avalied)	(Avalied)	(Avalied)	(Avalied)
1	M. Tech. (VLSI DESIGN)	I Yr.	7	12	6	7	5	9
		II Yr.	12	6	7	5	9	2
2	M. Tech. (WMC)	I Yr.	0	3	1	3	0	0
		II Yr.	3	1	3	0	0	0
3	M. Tech. (EPE)	I Yr.	1	9	9	3	6	0
		II Yr.	9	9	3	6	0	0
4	M. Tech. (CSE)	I Yr.	0	2	9	0	1	5
		II Yr.	2	9	0	1	5	0
5	M. Tech. (Structural Engg.)	I Yr.	2	No Course	No Course	No Course	No Course	No Course
		II Yr.	No Course	No Course	No Course	No Course	No Course	No Course
6	M. Tech. (Embedded Systems)	I Yr.	1	5	5	3	1	4
		II Yr.	5	5	3	1	4	0
7	M. Tech. (Computer Science)	I Yr.	No Course	0	4	1	1	0
		II Yr.	No Course	4	1	1	0	0
TOTALS =								

29. Was there any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

- The alumni of department conduct meeting at least once a year and makes suggestions to the department in various matters.
- Employers/Industries: The students of all courses have to undergo a compulsory on-the-job-training for a period of four weeks in different industries/institutions/research labs/organizations. The feedback from these is obtained by college regarding performance of the students as well as the curriculum.

- c) Demand of the course by examining number of colleges offering such a course and seats filled over last three years.
- d) Employment potential.
- e) Availability of teacher in each specialization.

30. Does the department obtain feedback from?

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the Department utilize it? Yes

Faculty on curriculum:

- College is functioning as Autonomous from 2011-12 sanctioned by JNTUH for 3 years, followed by UGC from 2014-15 for six years.
- This has given an opportunity to the faculty for direct involvement in preparation of regulations, course structure and syllabi.
- Senior faculty of the department are also members of the Board of Studies along with the external members to have detailed discussions.
- Faculty on teaching-learning-evaluation:
- With Autonomy, college has introduced evaluation system having Quiz, Assignment and internal exam making both mids as compulsory.
- Some faculties are valuers of end examinations. This has helped to know directly the teaching-learning and its process.

b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feed back is collected from the students through feedback performa forms. The evaluation and analysis of same is being regularly carried out.

Feedback collected for all courses

Specify the feedback collection process: The feedback proforma is standardized taking inputs from faculty. Every dept has one faculty in charge for feedback .The feedback is taken at 4th week of commencement of semester and at 15th week of semester. The feedback is collected by the class incharge and other than the class teacher.

Percentage of students participating: 75%

Feedback analysis process:

The Feedback is analyzed manually.

The core metric derived out of the analysis process is the mean of average of the rating. The metric accounts for basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage, clarity of expression, the teachers command over the subject, regularity of the student and overall opinion.

Basis of reward / corrective measures:

A Bench of mark of 75% grading is adopted. Faculty scoring 65 to 75% are individually counseled by the respective Head of Department.

Faculty scoring 55 to 65 % are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. This has helped many junior faculty members to improve, through regular interaction with the Associate Professors.

Faculty scoring less than 50% is taken as serious cases for review, for one more semester.

Corrective measures:

Counseling by Head of Department/ close monitoring and interaction by the senior faculty member. Change of subject under special cases. Psychology of batch of students etc. considered for corrective measures.

Adequate time is given for faculty members to strive for perfection.

Specific remarks of the Head in few cases based on consistently unsatisfactory Performance are annually viewed for remedial measures

The feedback on the performance of the faculty members are received through formal feedback forms as well as through informal feedback from students. The Head of the Department in all such cases verifies the inputs received and then counsel the respective faculty members informing them about the feedbacks received and accordingly advice them about possible corrective measures. The following are some of the corrective measures:

- Suggestion on the method of preparation
- Possible pedagogy that can be adopted
- Methods of improving interaction with students
- Arranging special classes for the students
- Reduction in teaching load
- Presenting their lecture schedule and notes to other experienced teachers before they conduct the class

c. Alumni and employers on the programmes and what is the response of the department to the same?

Department has a very active alumni interaction and their views are considered in the curriculum design and variation. The Alumina meets twice a year. Academic Council and Governing Body review admissions, results, expenditure etc. The Boards have employers and Industry specialists.

31. List the distinguished alumni of the department (maximum 10)

List the distinguished alumni of the department (maximum 10)

Sl. No.	Name	Company
1	Nagarjun Chakilam	MathWorks Inc., USA
2	Suchet gundugollu	<u>Tata Consultancy Services</u>
3	Pranita nachegari	Deloitte
4	Suhas Thallam	ADP
5	Vijay kumar	Cognizant Technology Solutions
6	Pradeep Kumar	Power-electronics Espana
7	Nitin Kumar	ADP Pvt. Ltd.
8	Karthik Reddy Malasani	Key Software Inc, CA.
9	RaviTheja Pendali	Innovative Inc
10	Srutha Keerthi	DSP cadre in Telangana State Police
11	Naveen Kumar	BOSCH Company, Coimbatore, Tamil Nadu
12	Subrahmanya Deepak	BARC, Chennai, Tamil Nadu

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. Students participating in technical competitions

Preparation of technical papers and presenting at other institutes is an important activity under self learning and learning topics beyond syllabus.

Academic Year: 2015-16

Professional Society Activities

S. No	Society / Chapter	Event	Date
1.	TECHNOLITES	Guest Lecture on” Satellite Concepts for Broad Caster”	19 th Jan,2016
2.	IETE Students Forum	Workshop on research trends in Electronics and Communication Engineering	21 st & 22 nd Dec,2015
3.	IEEE Student Branch	IEEE Day 2K15	16th Oct, 2015
4.	IETE Students	Industrial Visit to RTTC-BSNL	14 th & 15 th

	Forum		Oct,2015
5.	TECHNOLITES	Micro Controllers Workshop	8 th & 9 th Oct,2015
6.	TECHNOLITES	Robotic Workshop	30 th Sept,2015
7.	TECHNOLITES	Guest Lecture on “New trends in satellites”	28 th sept,2015
8.	TECHNOLITES	IMPETUS 2K15- Technical Fest	28 th sept,2015
9.	TECHNOLITES	Logo Design Competition	(21- 25) sept,2015
10.	IEEE Student Branch	Engineers’ Day	14 th & 15 th Sept,2015
11.	IEEE Student Branch	Visit To IEEE Zonal Congress Meeting	3rd & 4th Sept,2015
12.	TECHNOLITES	Guest Lecture on “Evolution and Future of Mobile Communication in India”	2 nd Sept,,2015
13.	IEEE Student Branch	Distinguished Lecture On Internet Of Things	31 st July 2015
14.	IEEE Student Branch	Vanamohastav	10 th July 2015

Professional Society Activities



Dr. Nayanathara K S, Principal delivering a lecture in Two Day Refresher Course on EMTL to the faculty during 4th & 5th November, 2015



Chairman Dr. Cherabuddi V. Raghava felicitating Smt. Geeta Varadan, fellow of IETE and Director of the Advanced Data Processing Research Institute of the Indian Space Research Organization (ISRO)



Workshop on Micro Controllers during 8th & 9th October, 2015

Entrepreneurship Development Cell

S. No.	Activity Description	DATE
1	Charms of Entrepreneurship, Achievement Motivation Technique ,Marketing Assessment	19 th Jan,2016
2	Licenses & Clearances for new Entrepreneurs, Project Feasibility, Sources of Finance	20 th Jan,2016
3	Project Identification, Communication Skills, Business Laws For new Entrepreneurs,	21 st Jan,2016

Academic Year: 2014-15

Students participation in technical competitions

S.NO	NAME OF THE STUDENT	DATE	EVENT	VENUE
1	P. Sai Manisha	14 th -15 th Jan 2015	Workshop on Circuit Design and PCB Fabrication	InSigma Labs Tech
2	G. Sandeep Kumar	3 rd ,4 th Jan 2015	Workshop on Sixth Sense Tech	IIT Bombay
3	B. Shireesha	14 th -15 th Jan 2015	Workshop on Circuit Design and PCB Fabrication	InSigma Labs Tech
4	A. Vamshi Krishna	12 th -15 th Mar 2015	SRUJANA'15 Paper presentation	JNTUH
5	A. Vamshi Krishna	2 nd Mar 2015	SRUJANA'15 Paper presentation	OU college of egg
6	A. Vamshi Krishna		Shaastra 2015	IIT Madras
7	A. Vamshi Krishna	24 th , 25 th Mar 2015	Paper presentation	MVSR
8	TARAK	15 th -17 th Sep 2014	IUCEE-SPEED STUDENT WORKSHOP	GURUNANAK INSTITUTIONS IBP
9	Y.Ithihas Reddy	18 th and 19 th March 2015	Paper presentation (I Prize)	BVRIT
	K.Indra Kumar Reddy	18 th and	Paper presentation (I	BVRIT

10		19 th March 2015	Prize)	
11	K.Indra Kumar Reddy	13 th and 14 th March 2015	Paper presentation	Malla Reddy College of Engg.

Professional Society Activities

Sl. No.	Society / Chapter	Event	Date
1.	IEEE Student Branch	Work shop on Advanced Digital Design	21 st , 22 nd , 28 th Feb, 1 st & 7 th Mar, 2015
2.	IEEE Student Branch	Work shop on Circuit Design & PCB Fabrication	14 th & 15 th Feb, 2015
3.	ECE Department	Fourier Series, its Evolution, intuition & Applications	7 th Feb, 2015
4.	IEEE Student Branch	Digital Filters Using MATLAB	29 th Jan, 2015
5.	IETE Students Forum	TECH FEST	9 th Jan, 2015
6.	IETE Students Forum	Industrial Visit to RTTC-BSNL	14 th & 15 th Nov, 2014
7.	IEEE Student Branch	IEEE Day Celebrations	14 th Oct, 2014
8.	IEEE Student Branch	Visit to Rudramatsa Entertainment Pvt.Ltd.	21 st Sept, 2014
9.	IEEE Student Branch	Engineer of The Year	11 th , 12 th & 15 th Sept, 2014
10.	IEEE Student Branch	Visit to RCI Labs(DRDO)	11 th Aug, 2014
11.	IEEE Student Branch	Lecture on Indian Space Programme	6 th Aug, 2014
12.	IEEE Student Branch	Nikola Tesla Memorial Lecture	10 th July, 2014

CIENCIA

S. No.	Event	Contest	DATE
1	CIENCIA '15	Circuitronics	26-27 March 2015
2	CIENCIA '15	Circuit Treasure	26-27 March 2015
3	CIENCIA '15	Are U An E-Champ	26-27 March 2015
4	CIENCIA '15	I Have A Dream Device	26-27 March 2015
5	CIENCIA '15	Techxtream	26-27 March 2015
6	CIENCIA '15	Know Your Device	26-27 March 2015
7	CIENCIA '15	Distractions	26-27 March 2015
8	CIENCIA '15	E-Tonic	26-27 March 2015
9	CIENCIA '15	Work shop on "Robotics"	26-27 March 2015
10	CIENCIA '15	Paper Presentation	26-27 March 2015

Entrepreneurship Development Cell

S. No.	Activity Description	DATE
1	Achievement Motivation Technique Project Identification	4 th Sept,2014
2	Licences & Clearances for new Entrepreneurs, Communication Skills, Banking Formalities, Marketing Management	5 th Sept,2014
3	Business Laws For Entrepreneurs, Sources of Finance	6 th Sept,2014

Academic Year: 2013-14

Students participation in Technical Competitions

Sl. No	Name of the student	Year	Title of the paper	Venue
1	A.Vamshi Krishna	II-D	Wireless Controlling of a device	SNIST
2	P.Sri Harsha D.Tarakeshwar Raju	II-D	Position Tracking Using GPS	SNIST
3	P.V.S. Shivar Tarun	II-D	ARM Processor	SNIST
4	E.Srijan	II-D	SFMIR	CVSR
5	G.Ramanjaneyulu Sai Krishna Reddy	II-C	Reverse Image Search Engine	SNIST
6	K.Sai Kumar	II-C	Skinput Technology	VMEG
7	Ch.Ramya Sri Seem Munnwara	II-C	Fabrication of Nano Fobers	VMEG
8	Rishi Bharadwaj T.Sethu Sumanth	II-C	Skinput Technology	SNIST
9	T.Niharika Ruheena Fatima	III-A	Paper Battery	VNR VJIET
10	T. Nikitha B.Revathi	III-A	Air Powered Cars	VNR VJIET
11	Shivateja Shiva Shankar	III-C	Adaptive Cruise Control System	OU
12	B.Srujana G.Sravva	III-C	HUBA(Hovercraft used in Biomedical Application)	Velammal Inst. of Tech. Chennai
13	Kavyasri.B Ashritha	II-A	LiFi	VMEG
14	Kavya Sri.N Annie	II-A	Voice Usage Mobile Charger	GNIT
15	Hima Bindhu.J Annie	II-A	Blue Brain	GRRR

Professional Society Activities

Sl.	Society / Chapter	Event	Date

No.			
1.	IEEE Student Branch	RTTC-BSNL	22 & 29 th March 2014
2.	IEEE-SB-WIE	Women's day celebration	7 th March 2014
3.	IEEE Student Branch	Computer Vision	6 & 7 th March 2014
4.	IEEE Student Branch	DSP for BMA	19 February 2014
5.	ECE Department	Satellite Communication & Electronics Warfare for Communications	29 th Jan, 2014
6.	ECE Department	Applications of Nano Technology	11 th Dec, 2013
7.	ECE Department	Workshop on VLSI Design using Xilinx and Cadence Tools	2 nd -5 th Dec, 2013
8.	ECE Department	Latest trends in VLSI Design	25 th Nov, 2013
9.	IEEE Student Branch	IEEE Tech Fest 2013	28 th September, 2013
10.	ISTE	Work shop on "Robotics"	21 st and 22 nd September, 2013
11.	IEEE Student Branch	Group Discussion and Elocution	16 th Sep, 2013
12.	IEEE Student Branch	Industrial visit	24 th August 2013
13.	ECE Department	Workshop on Antennas for Radar & Communication	27 th July, 2013

CIENCIA

Sl. No.	Event	Contest	Date
1	CIENCIA '14	"1or 0"	14-15 March 2014
2	CIENCIA '14	Exotic Electronic	14-15 March 2014
3	CIENCIA '14	Mind your Brain	14-15 March 2014
4	CIENCIA '14	Puzzle Mania	14-15 March 2014
5	CIENCIA '14	Walk along Glider	14-15 March 2014
6	CIENCIA '14	Work shop on "Robotics"	14-15 March 2014
7	CIENCIA '14	Workshop on "VLSI"	14-15 March 2014
8	CIENCIA '14	Paper Presentation	14-15 March 2014

Entrepreneurship Development Cell

S. No.	Activity	Description	DATE
1.	Achievement Motivation Technique	Project Identification Characteristics of an Entrepreneur	19 th sept, 2013

2.	Establishment of Entrepreneur	Licenses & Clearances, for new Entrepreneurs, Business Laws For Entrepreneurs, Project Report Preparation, Marketing Management, Sources of Finance	20 th sept,2013
3.	Communication Skills developments	Personality Developments Programme	21 st sept,2013

33. List the teaching methods adopted by the faculty for programs.

Department has formulated Program Educational Objectives (PEOs) and Program Outcomes (PO). They are disseminated in brochures, Course files and Websites.

PEO Number	Program Educational Objectives (PEO)
PEO 1	The graduates of the four year B.Tech in Electronics & Communication Engineering will be proficient in contemporary technologies.
PEO 2	The graduates of the programme will imbibe human values and professional ethics to meet the needs of global industry.
PEO 3	The graduates of the programme will be capable of solving complex engineering problems in core and interdisciplinary areas leading to research.
PEO 4	The graduates of the programme will be able to pursue higher studies in reputed institutions.

Programme Outcomes (POs):

On completion of the four year B.Tech programme in the Electronics & Communication Engineering, a student will be able to:

1. Apply mathematics and basic sciences in solving problems in electronics and communication systems.
2. Design and analyze analog, pulse and digital circuits to solve contemporary problems.
3. Find solutions to mitigate problems in the physical layer of the communication system.
4. Understand the performance characteristics of antennas and design for specific applications.
5. Draw on their knowledge of current software tools to design integrated circuits, processors, and communication units.
6. Utilize proficiency in handling sophisticated equipment to test, measure and control instruments.
7. Bring into play their expertise in programming to design and develop everyday appliances using microcontrollers, DSP processors and embedded systems.
8. Understand the relevance and purpose of various components and modules in the communication systems that can lead to continuous learning and research.
9. Develop leadership and group dynamics that will stand them in good stead in their chosen profession.
10. Successfully apply their understandings of financial intricacies and management mantra in launching viable enterprises.
11. Practice ethics and professionalism in all activities while keeping in mind responsibilities towards society and environment.

The teaching methods adopted to meet the Programme Outcomes are listed below:

Mode of delivery	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Lecturing	√	√	√	√	√	√	√	√			
Tutorials	√	√		√	√	√	√	√			
Internal Quiz's	√	√	√	√			√	√			
Internal Tests	√	√	√	√			√	√			
Assignments	√	√	√	√			√	√	√		
Seminars				√			√	√		√	√
Mini projects	√	√	√	√	√	√	√	√	√	√	√
Tech. paper publications	√	√	√	√	√	√	√	√	√	√	√
Major project	√	√	√	√	√	√	√	√	√	√	√
Industrial visits	√			√	√	√	√	√	√	√	√
Guest Lecture				√			√	√	√	√	√

- Internal & external exams help the students to secure grades which leads to good placements & pursuing higher studies.
- Tutorials & quizzes are helpful for clear understanding an individual's caliber, innovative approach, level of learning, etc.
- Seminars, mini projects, technical paper presentations are helpful to assess innovative approach, leadership, etc.
- Industrial visits, project works are helpful to bridge the gap between the theoretical knowledge & real life scenario.
- Guest lectures are conducted by inviting eminent personalities from reputed industries/institutes/organizations for keeping the staff & students abreast with the latest developments taking place in the field of Electronics & Communication.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The assessment of PEOs and Pos and their monitoring is done by reviewing the direct and indirect tools as listed below:

Direct Assessment Tools:

Performance in Mid Examinations

Performance in End Examinations

Assignments

Tutorials

Seminars

Comprehensive Viva

Industry Oriented Mini Projects
Project Work

Indirect Assessment Tools:

Alumni Survey

Employer Survey

Course Exit Survey

With the College having Autonomous Status, teacher has direct scope to:

- Frame syllabus
- Stress on important topics and their relevance.
- Learning by student is monitored through performance in internal examination.
- Quiz assignment and internal tests and interaction with students on their performance is done in class room.
- Paper setting and valuation of end exam is partly done by teacher. This helps to understand and monitor the concepts gained by student.
- Project guidance, Mini Project guidance, Industry related Mini Project are continuously done under the guidance of teacher.
- Technical paper presentation by students, seminar in Departments, active participation of student in conducting annual technical event, CIENCIA in the College for 3 days also give ample scope to monitor the learning outcomes.

Assessment is done for PEO and Po to understand scope of coverage of curriculum PEO & Po typical result is furnished below expected / assessed.

PEO Number	PEO attainment level- Goal (In %)	PEO attainment level- Achieved (in %)
PEO1: The graduates of the four year B.Tech in Electronics & Communication Engineering will be proficient in contemporary technologies.	95	90
PEO2: The graduates of the programme will imbibe human values and professional ethics to meet the needs of global industry.	95	94
PEO3: The graduates of the programme will be capable of solving complex engineering problems in core and interdisciplinary areas leading to research.	90	87
PEO4: The graduates of the programme will be able to pursue higher studies in reputed institutions.	90	84

PO Number	PO attainment level - Goal	PO attainment level- Achieved (12-13)	PO attainment level- Achieved (13-14)	PO attainment level- Achieved (14-15)
PO1: Apply mathematics and basic sciences in solving problems in electronics and communication systems.	80	74.5	76.5	77.5
PO2: Design and analyze analog, pulse and digital circuits to solve	80	76	77	78.5

contemporary problems				
PO 3: Find solutions to mitigate problems in the physical layer of the communication system.	80	77	78	79
PO4: Understand the performance characteristics of antennas and design for specific applications.	80	74	75	76
PO 5: Draw on their knowledge of current software tools to design integrated circuits, processors, and communication units	80	75	76	77.5
PO 6: Utilize proficiency in handling sophisticated equipment to test, measure and control instruments.	80	76.5	76.5	77.5
PO 7: Bring into play their expertise in programming to design and develop everyday appliances using microcontrollers, DSP processors and embedded systems.	80	77	77	77
PO 8: Understand the relevance and purpose of various components and modules in the communication systems that can lead to continuous learning and research.	80	77.5	78	78.5
PO-9: Develop leadership and group dynamics that will stand them in good stead in their chosen profession.	80	76	76	76.5
PO-10: Successfully apply their understandings of financial intricacies and management mantra in launching viable enterprises.	80	76	76	76
PO-11: Practice ethics and professionalism in all activities while keeping in mind responsibilities towards society and environment.	80	75	75	75

Mapping between PEOs and POs:

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) PROGRAMME OUTCOMES (POs)	PEO 1	PEO 2	PEO 3	PEO 4
PO1: Apply mathematics and basic sciences in solving problems in electronics and communication systems.	H	H	M	H
P02: Design and analyze analog, pulse and digital circuits to solve contemporary problems.	M	H	H	
PO3: Find solutions to mitigate problems in the physical layer of the communication system.	M	H	H	
PO4: Understand the performance characteristics of antennas and design for specific applications.	H	M		
PO5: Draw on their knowledge of current software tools to design integrated circuits, processors, and communication units.	H	H	M	
PO6: Utilize proficiency in handling sophisticated equipment to test, measure and control instruments.	M	M	M	

PO7: Bring into play their expertise in programming to design and develop everyday appliances using microcontrollers, DSP processors and embedded systems		H	M	
PO8: Understand the relevance and purpose of various components and modules in the communication systems that can lead to continuous learning and research.	H	M	M	H
PO9: Develop leadership and group dynamics that will stand them in good stead in their chosen profession.	M		H	
PO 10: Successfully apply their understandings of financial intricacies and management mantra in launching viable enterprises.	W	M		M
PO 11: Practice ethics and professionalism in all activities while keeping in mind responsibilities towards society and environment.	M		M	M

Note : H – High, M- Medium, L - Low

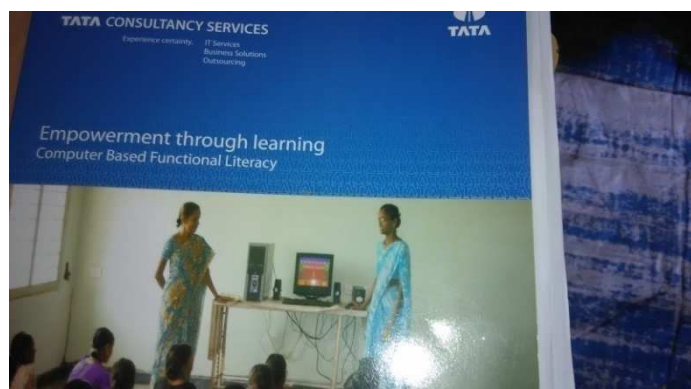
35. Highlight the participation of students & faculty in extension activities?

NSS Unit of CVR College of Engineering working with the objective of identifying the needs and problems of the community and involve the students in problem solving process to develop among themselves a sense of social and civic responsibility.

NSS Unit CVR college of Engineering – Achievements in the past four years.

1. Red cross Award for Regular Blood Donation camps.

As recognition of our Voluntary Blood Donation Camps for the past 10 years, college received a Red-Cross Award on 14th June 2014 from Governor of AP and Telangana.



2 .Successfully conducting Adult Literacy Programme in Pocharam village

Computer Based functional Literacy (CBFL) Program with the association of TCS is going on in our adopted village Pocharam, Ibrahimpatnam Mandal RR District. This program aimed at educating the illiterate villagers with reading and writing of Telugu language. One Batch of Villagers consisting of 20 members already learnt to write and read Telugu script.



3.Regular Health Camps in nearby Villages

Recently two health camps conducted in the Mangalpally and Pocharam Villages. During the camp apart from free health checkup, medicines are distributed



4. Laying of 3Km New Approach Road in Mangalpally Village

During the Special camp organized at Mangalpalli (v) Road formation is undertaken.



5. Regular Personality Development

Programmes for students in nearby village Government schools

Activities of NSS Unit are divided into two categories i.e., Special camp activities and Regular Activities

Special camp activities

Special camps are conducted in nearby villages with some Special Programmes;

These activities includes

1. Health awareness programmes
2. Free medical Camps
3. Tree plantation programmes
4. Clean and Green programmes
5. Personality Development Classes for students in Government High schools.

Regular Activities

These activities are conducted in the campus after college hours. These includes

1. Swatch Bharath programmes with the focus of making clean campus,
2. Plantation programmes,
3. Personality Development classes for volunteers,
4. Other voluntary activities for the benefit of remaining student community.

NSS Unit of CVR College of Engineering conducted the following major activities during the financial year 2010-11, 2011-12, 2012-13, 2013-14, 2014-15

- 16-4-2010 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 243 students and staff voluntarily donated blood.
- 28-3-2011 Blood donation camp in the college campus with the association of Red Cross society, vidyanagar. 179 students and staff donated blood.
- THE SPECIAL CAMP AT MANGALPALLI (V) DURING 2nd DECEMBER 2011 TO 9th DECEMBER 2011.
- 07-3-2012 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 283 students and staff voluntarily donated blood.
- Mega Blood Donation Camp conducted in the College Campus on 6th March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.

- Social Awareness and responsibility enhancement Talk organized for II B.Tech student in the college Campus on 6th November 2013. Mr.Azmah Ali, Project Manager, Adult Literacy Program, TCS, Addresses 400 members of Students and motivated them to take part in solving the Society Problems.
- A One Day Training Programme on Computer Based Functional Literacy (CBFL) conducted in the Campus on 2nd Jan 2014. 25 trainers from B.Tech 3rd year participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.
- A programme of Swatch Bharath conducted in the college campus on 16th October 2014 in the afternoon session between 2.30 pm to 5.00 pm in the college campus. All the NSS volunteers participated in the Clean & Green Program.
- A Blood donation camp on 24-11-2015 in the college campus with the association of Red Cross society, Vidyanagar. Huge response received for this camp and 476 students and staff voluntarily donated blood.
- A Free Health camp conducted at nearby village 'Pocharam', on 9th October 2015. Camp inaugurated by village Sarpanch and 110 villagers received treatment along with free medicines. In the Camp NSS volunteers created awareness on public health, environment, cleanliness and HIV to the villagers.
- One day camp at Government High School in the Pocharam Village on 17th November 2015 for Clean and Green Program in the School Campus. During the Camp, NSS Volunteers undertaken activities like School campus cleaning, Quiz programs for students and Health awareness Talks.

NSS: College has NSS Unit sanctioned by JNTU University, Hyderabad. Funds are released by the University periodically. College maintains separate Account for NSS. One of the faculty members is designated as Programme Officer. Yearly accounts are submitted to the University under Utilization.

Usage:

- Students register for NSS Unit of the College as Student Volunteers. About 200 students are on rolls as Volunteers.
- Every year at least two Blood Donation Camps are conducted.
- About 50 staff members and 250 students come forward for blood donation.
- The Blood Donation Camps are organized, sponsored by Red Cross Society, for which the Honorary President is the Governor of Andhra Pradesh or designated person.
- College has a full time Doctor and Nurse. Services of the Doctor are utilized in organizing Health camp at nearby village 'Pocharam', in creating awareness on public health, environment, cleanliness and HIV.
- Clean & Green, Tree Plantation at College campus are common features organized on Saturdays/ Sundays.

List of Activities Conducted In the Camp

Sl. No.	Date	Activity	Description of Activity
1.	2.12.2011	Health and Environmental Awareness for Villagers	Inaugural session by village Sarpanch. volunteers formed into groups and educated the villagers during the day
2.	3.12.2011	Health Checkup for villagers (Diabetic, B.P Tests and general health check up)	Free medical camp conducted in the Grampanchayat building 175 patients consulted the Physician.
3.	5.12.2011	Road Alignment of Mangalpalli (V) approach road	Road formation from Mangalpalli(v) to Koheda Gate Approach roads.

4.	7.12.2011	Computer Education for Awareness to the students of Mangalpalli (V) Government School	Patelguda, Maglapalli ZPSS High school visit Computer awareness, higher education awareness and quiz programmes were conducted to the 8th,9th and 10th class students.
6.	08.12.2011	Clean and Green Programme	Volunteers formed into groups and conducted clean and green activities
7.	09.12.2011	Financial literacy/awareness among the villagers	Survey conducted by the volunteers in the village and educated the villagers

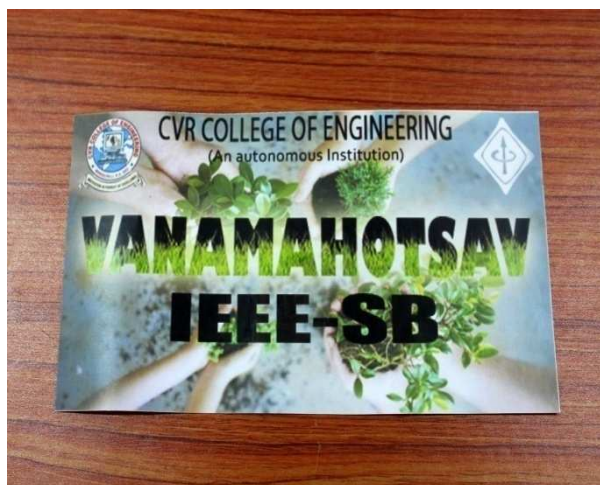
IEEE EVENT NAME: VANAMAHOSTAV

Date: 10 July 2015

Time: 9:30 am to 11:00 am.

Event Scale: The event was open to interested IEEE members.

OBJECTIVE: The main objective of this exercise is to motivate people to plant trees create awareness among students about the importance of trees and to create a responsibility among people to nurture and look after the trees and motivate to actively participate in combating pollution at a local level.



36. Give the details of “beyond syllabus scholarly activities” of the Dept.

- The ability of learning beyond syllabus is more encouraging in B.Tech. 3rd and 4th Year level.
- Senior faculty and Head of Department encourage such students who have the ability.
- Students are provided with latest version of the real time problems and asked to solve them in abstract set up.
- For this open source tools are supplied.
- Management also provides additional funding to buy spares, software etc., to develop modules.
- On solving the problem (theoretically/ practically) students are encouraged to present the solution in conferences, competitions or in journals.

Self Learning modes and modules are:

- Submission of design projects.
- Mini projects on identified topics.
- Participation in technical competitions, particularly, I-Talent by CII at Chennai, IITs & IIITs.

Some topics identified as topics beyond syllabus are listed below. Concerned teacher covers these topics.

B.Tech I- year

Sl.No.	Course Name	Deficiency identified	Additional efforts/content beyond syllabi
1.	C programming and data structures	Inadequate lab sessions as per university time table	Extra labs are conducted

B.Tech II Year

Sl.NO	Course Name	Deficiency identified	Additional efforts/content beyond syllabi
B.Tech II Year I Semester			
1	Electronic Devices and Circuits	Clippers& Clampers	Clippers& Clampers, Multistage Amplifiers
2	Signals & Systems	The coverage of Fourier Transform ,Sampling	Sampling of Random Signals, Discrete Transforms-,DTFT & DFT
3	Probability Theory and stochastic Process	Analysis of Noise	Sampling conversion of noise signal, Analysis of Noise
B.Tech II Year II Semester			
4	Electronic Circuit Analysis	Neutralization techniques in Tuned RF Amplifier.	Neutralization techniques in Tuned RF Amplifier.
5	Pulse and Digital Circuits	Multi vibrators using FET and Logic family	Multi vibrators using JFET and MOSFET, Logic family using PMOS, NMOS and CMOS.
6	Logic and Switching Theory	Fault Tolerance and Diagnosis	Adders and Sub tractors, Fault Tolerance and Diagnosis

7	Electromagnetic Theory and Transmission Lines	META Materials (or)EBG Structures	Vector analysis and materials properties, Easy to understand as they are basics of Mathematics and science, META Materials (or)EBG Structures
B.Tech III Year I Semester			
8	IC Applications	OP-AMP	Analog Computation, OP-AMP as Log,Antilog and Multiplier
9	Antennas and Wave Propagation	Transformer Coupled Micro strip Antenna	Scatter areas of Antennas, Transformer Coupled Micro strip Antenna
10	Analog Communications	Probability density function	Probability density function, power spectral density, Spectra of PAM and Pulse Time Modulation(PWM/PPM)
11	Electronic Measurements& Instrumentation	Real time Spectrum Analyzer	Measuring AC &DC Voltages using Arduino, Real time Spectrum Analyzer
B.Tech III Year II Semester			
12	Telecommunication Switching Systems and Networks	CCITT SIGNALLING SYSTEM NO.6 &7, Single Stage Networks, Link systems	CCITT SIGNALLING SYSTEM NO.6 &7, Single Stage Networks, Link systems
13	Microprocessors and Micro Controllers	8085	Architectural Features of 8085, Memory Interfacing of 8085
14	Digital Communications	Multiple access techniques	Orthogonal Frequency Division Multiple Access(OFDMA), Code Division Multiple Access(CDMA)
15	Digital Signal Processing	Filter design	Sampling rate conversion by a rational factor I/D, Filter design & Implementation for sampling rate conversion
16	Operating Systems	Permission for files and Real Time Operating system	Introduction to UNIX File system, working, Permission for files and Real Time Operating system Examples
17	Computer Networks	Voice Over Internet Protocol	Real time Interactive Audio/Video related concepts, Voice Over Internet Protocol
B.Tech IV Year			
18	Microwave Engineering	Microwave integrated circuits	Microstriplines, Microwave integrated circuits
19	VLSI Design	CMOS SOI Fabrication	CMOS SOI Fabrication process, Pass Transistor Logic
20	Embedded &Real Time Systems	Pipe inter process Communication	Interfacing Graphical LCD, with 89C51Microcontroller, Pipe inter process Communication

21	Digital Image Processing	Fuzzy Techniques and Digital Image Water marking	Singular Value Decomposition, Using Fuzzy Techniques for Intensity Transformations and Spatial Filtering, Digital Image Water marking
22	Radar Systems	MARINE RADAR	MARINE RADAR, RADAR JAMMING AND DECEPTION
23	Digital Design through Virology HDL	VHDL and Verilog HDL Comparison	VHDL and Virology HDL Comparison
24	Cellular and Mobile Communications	Protocol Architectures-CDPD	Protocol Architectures-CDPD, VolP, GPRS services, Cellular Technologies-HIPERLAN

List of Mini-Projects carried out: Mini Projects for : 2015-16

Sl.No. Title of the Project

1. Automatic engine locking system for drunk and drive
2. Fabrication of a mobile using GSM board at command arduino programming
3. Cellphone operated wireless robot
4. BER performance evaluation of FFT based OFDM
5. A robot which is capable of sensing and dousing the fire autonomously
6. Password based door lock system using PIC microcontroller
7. Intelligent shopping counter
8. DTMF based home automation system
9. Image processing - retrieval of word in an image
10. Controlling of home appliances using RF technology
11. Flame detection using image processing techniques
12. High Sensitivity LPG sensor with gas leakage alert buzzer
13. Design and simulation of microstrip patch antenna using HFSS
14. Controlling car using bluetooth and android interface
15. Propeller display
16. Implementation of CDMA transmitter and receiver
17. Laser security system using ic555 system
18. Cellphone detector
19. DTMF controlled robot without microcontroller
20. Convolutional encoding & viterbi decoder for communication channel using Matlab
21. Image compression using DCT
22. Wireless electronic notice board
23. Finger print based identity authentication
24. Traffic state detection tool
25. GSM based wireless security system
26. Solar highway lightning system
27. Speaker recognition and authentication
28. GSM operated display system
29. PAPR reduction of OFDM signals using clipping method
30. Dual axis solar tracking system
31. Drowsy driver detection system and alerts
32. Line following robot
33. Home automation using DTMF
34. Geo Tagging Public Safety Device
35. Dcct and its application
36. Ultrasonic sensor based obstacle detection
37. Sram implementation using virology

- 38 Electronic weighing machine
- 39 Motion based password for device switching
- 40 Electronic line man safety system
- 41 Discrete linear chirp transform for data compression
- 42 A novel method for decomposition of multi-component non-stationary signals
- 43 Design of 8-channel digital multiplexer
- 44 Noise cancelation using adaptive filter
- 45 Wireless data encryption and decryption for secured communication using RF
- 46 IR sensor based electronic walking stick for the blind
- 47 Robotic arm manually controlled using arguing
- 48 Exact petrol level indicator in vehicles through ultrasonic sensor
- 49 Alcohol detection of driver & alarm controller
- 50 GSM based automatic irrigation control system
- 51 Safety device for unmanned level crossing
- 52 Ring oscillator
- 53 Design of instrumentation amplifier & filters for data acquisition
- 54 RF network used to clear the way for ambulance
- 55 Water level controller alarm using ic555
- 56 Electronic mosquito repellent circuit
- 57 Auto intensity control of street lights
- 58 Simulation of adaptive noise- canceler for an ECG signal analysis
- 59 Embedded based automatic ticketing system for public transport
- 60 Data logging
- 61 Wireless electronic notice board using GSM
- 62 ARM based mp3 player.
- 63 ASIC implementation of soft core processor using arm7
- 64 Smart home security system
- 65 Design of 16 bit comparator using full adders
- 66 Automatic plant irrigation system using GSM
- 67 Implementation of round robin arbiter using verilog
- 68 Wavelet decide choosy pixel Embedding for Stego
- 69 Low power, high speed carry select adder using d-latch
- 70 Bidirectional visitor counter and display system with foot power generation
- 71 Bluetooth based security system using android
- 72 BER analysis of BPSK system using GNU radio tool
- 73 GSM controlled robot
- 74 RFID based patient information system
- 75 Juggling of multiple tasks using RTOS
- 76 Wireless remote based electronic control with password protection
- 77 Hand gestures based home automation
- 78 RFID based smart shopping cart
- 79 Applications of comparator using 90nm technology
- 80 MEMS accelerometer based self balancing robot
- 81 Live human being detection using wireless robot

37. State whether the program/department is accredited/graded by other Agencies. Give details.

2006-07	The Accreditation Team has visited the College during 25th to 27th May, 2007. NBA-AICTE has issued orders in Order No.NBA/ ACCR-894/2007, Dt.12-09-2007, accrediting B.Tech. CSE, EEE, ECE & IT branches for a period of 3 years w.e.f. 12.09.2007.
2012-13	The Accreditation Team has visited the College during 13 to 15 July,2012.NBA-AICTE has issued order in Order File No.11-40/2010/NBA, Dt.: Jan29, 2013, accrediting B.Tech. CSE, EEE, ECE, IT & EIE branches for a period of 2 yrs .

- The JNTUH has accorded Autonomous Status for a period of 3 years from 2011-12 to 2013-14
- UGC, New Delhi has accorded Autonomy for 6 years from 2014-15 to 2019-2020, conferred by the JNTUH for same period.
- UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC Act dated 19th June 2012

38. SWOT Analysis

STRENGTHS:

1. The Department has a commendable student-faculty ratio.
2. The real strength of the department lies in its qualified, dedicated and motivated faculty. An ardent interest among the youth in our college to study subjects under Electronics and communication adds to the flavour of strength.
3. The Department has a treasure of qualified faculty(PG and PhD/scholars/Professors)
4. There is a considerable admission capacity in the Department, thanks to the opportunities created by the private sector.
5. The ever increasing interest of industry associations and professional societies to partner and collaborate with the Department, adds to the strength.
6. The Accreditation initiatives of NBA are serving to promote quality improvement in delivering education in the various disciplines of the Department.
7. The recognition of the role of Electronics and Communication in several sectors relevant for National development sparks up the efforts of the Department.
8. The P.G courses offered by the Department ranges from VLSI System Design, Wireless and Mobile Communication and Embedded Systems.
9. With Autonomous inclusion of required subjects, the overall student development and their placements in reputed private sectors have increased exponentially.
10. The UGC autonomous status has immunized the Department from the widely prevalent affiliating system in the University precluding timely curriculum updation and introduction of innovative reforms.

WEAKNESS

1. While there are islands of excellence in the subjects, there are rather few in number to impart.
2. Lack of interest among graduating engineers for pursuing either research degree programmes or teaching careers.
3. Lack of availability of Engineering PhDs for faculty positions.
4. The whole mismatch between education received by the graduates and job requirements dampens the efforts.
5. The remote location of the college in the outskirts makes the attraction factor dim.

OPPORTUNITIES

1. IT tools (Cadence tools) are becoming available for technology-advanced learning for widening the reach and improving the effectiveness of the Department.
2. Many Alumni of the Department are offering substantial support and encouragement to their Alma Maters.
3. Availability of resource persons on call highly opportune the betterment of the Department.
4. A very cooperative Administration that heeds and encourages initiatives in research and career development adds quality to the opportunity given to the Department.
5. The department is equipped with contemporary laboratory equipments required for the excellent growth of students.

THREATS

1. Tendency of students to prefer IT related courses might mask the Department student intake.
2. Tendency of research scholars to prefer computer based research over experimental research

39. Future development of the department

The ECE curriculum provides a wide perspective of the field of Electronics and Communication Engineering and allows the student to decide his future directions. Students often diverge into related fields such as Computer Engineering as expected often. The ECE branch provides the perfect ground and flexibility for students who wish to have broader base.

The department of ECE has taken the lead in establishing well equipped and modern Lab facilities and initiating Ph.D. programs and Research and Development. It has produced several Ph.Ds in the specialized areas of VLSI, ES and WMC masters programme in the specialized areas. The Department has developed into a centre of learning in various fields of Electronics and Communication Engineering, keeping in view the latest academic and industrial developments. It has created technical manpower for meeting the current and future demands of industry and academia.

On the research and consultancy front, it has completed 3 DRDO projects. AICTE funded projects and UGC research awards have enabled the department to take a huge leap in research. College funded Unmanned Aerial Vehicle project is an indigenous one that developed octo-copters to quad-copters with various features.

The future plans include established of centers of innovation in various specializations of electronics and communication engineering and interdisciplinary fields.

E.4 ELECTRICAL & ELECTRONICS ENGINEERING

1. Name of the Department & its year of establishment

Name of the Department: Department of Electrical & Electronics Engineering

Year of Establishment: 2001

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG - B. Tech (Electrical & Electronics Engineering), Full time, Four years

PG – M. Tech (Electrical Power Engineering), Full time, Two years

3. Interdisciplinary courses offered to EEE department and Departments involved

S. No	Name of the course	Year/semester	Department involved
1	C and Data structures	I-I	Computer Science Engineering
2	Fluid mechanics & Hydraulic machines	II-I	Mechanical Engineering
3	Environmental studies	II-II	Humanities & Social sciences
4	Managerial economics and financial analysis	III-I	Humanities & Social sciences
5	Neural networks and fuzzy logic	IV-I	Computer Science Engineering
6	Nano technology	IV-I	Electronics & Communication Engg.
7	Principles of VLSI design	IV-I	Electronics & Communication Engg.
8	Management science	IV-II	Humanities & Social sciences

4. Annual/ semester/choice based credit system

Taking the approval of BOS and Academic Council, Choice based Credit System has been introduced for B. Tech and M. Tech from academic year 2015-16. All programs follow the semester pattern.

5. Participation of the department in the courses offered by other departments.

EEE Department participates by handling the following subjects for other departments.

S. No	Name of the course	Year/ Semester	Department offered
1	Electrical circuits	I-II	Electronics & Communication engg
2	Principles of Electrical Engg.	II-I	Electronics & Communication engg
3	Basic Electrical Engineering	II-I	Computer Science Engineering, Information Technology.
4	Basic Electrical and Electronics Engg.	II-I	Civil, Mechanical Engineering

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors) In accademic year 2015- 2016

	Sanctioned as per AICTE norms	Filled
Professor	03	03
Associate Professors	06	07
Asst. Professors	18	20

7. Faculty profile with name, qualification, designation, specialization for the year 2015-16.

S. No	Name	Designation	Qualification	Specialization	Exp.	Ph.D.s guided in the last 4 years
1	Dr.S.Venkateshwarlu	Prof. & Head	Ph. D	Power Electronics	22	04 (Guiding)
2	Dr. K. Dhanvanthri	Emeritus Professor	Ph. D	Power systems	41	02
3	Dr.N.N.V. Surendra Babu	Professor	Ph. D	Power Electronics	15	-
4	Mrs. G. Sree Lakshmi	Associate Prof.	M. Tech (Ph. D Thesis submitted)	Power electronics & Industrial drives	13	-
5	Mr. G. Manohar	Associate Prof.	M.E (Ph. D)	Industrial drives & control	17	-
6	Mr. B. Kalyana Chakravarthy	Associate Prof.	M.E (Ph. D)	Industrial drives & control	11	-
7	Mrs. R. Naveena Bhargavi	Associate Prof.	M.Tech (Ph. D)	Power Systems	14	-
8	Mr. A. Naveen Kumar	Associate Prof.	M.Tech	Power systems	9	-
9	Mr.Ch. Lokeshwar Reddy	Associate Prof.	M.Tech (Ph. D)	High Voltage engineering	13	-
10	Mr. P. Rajesh Kumar	Associate Prof.	M.E	Power Systems	11	-
11	Mr. Rajib Kumar Kar	Sr. Asst. Prof.	M.E	Power Systems	28	-
12	Mr. R. Harsha Vardhan	Asst. Prof.	M.Tech	Power Electronics	10	-
13	Mrs. Vimala Gupta	Asst. Prof.	M. E	Industrial drives & control	11	-
14	Mr. P. Vinodh Kumar	Asst. Prof.	M. Tech	Power Electronics	8	-
15	Ms. E. Hima Bindu	Asst. Prof.	M. Tech	Power Electronics & Industrial Drives	8	-
16	Mr. G.Janardhan	Asst. Prof.	M.E	Industrial drives & control	5	-
17	Mr.K.Suman	Asst. Prof.	M.Tech	Power Electronics & Industrial Drives	5	-
18	Mrs.M.Rajasree	Asst. Prof.	M.Tech	Embedded Systems	6	-
19	Ms.M.Rajitha	Asst. Prof.	M.Tech	Power Systems	4	-
20	Mr. D. Sreenadh Reddy	Asst. Prof.	M.Tech	Power Systems	4	-
21	Mr. C. Krishna Reddy	Asst. Prof.	M.Tech	Power Electronics	6	-
22	Ms.Ch. Shravani	Asst. Prof.	M.Tech (Ph.D)	Power Electronics	7	-
23	Mr.Sravan Kumar Kotha	Asst. Prof.	M.Tech	Measurements & instrumentation	4	-
24	Mr. Ravi Teja	Asst. Prof.	M.Tech	Power Electronics	2	-

25	Ms. K. Deepika	Asst. Prof.	M.Tech	Power Systems	2	-
26	Mr.K. Bharath	Asst. Prof.	M.Tech	Power Electronics & Drives	1	
27	Mr. M. Suresh	Asst. Prof.	M.Tech	Instrumentation	1	
28	Ms. G. Sridevi	Asst. Prof.	M.Tech	Power Electronics & Electrical drives	4	
29	Mr. K.S.V Phani Kumar	Asst. Prof.	M.Tech	Power Systems	4	
30	Mr. M.Apparao	Asst. Prof.	M.Tech	Power Electronics	4	-

8. Percentage of classes taken by temporary faculty – programme-wise information

Department has no temporary staff, all are regular faculty.

9. Programme-wise Student Teacher Ratio

B. Tech: 13.3:1

M.Tech: 12:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Academic support staff	06	06
Administrative staff	02	02

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Two faculty members have applied to UGC, New Delhi under MRP scheme worth Rs 30,00,000

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.

Cherabuddi Educational Society, Hyderabad granted Rs. 2.8 crores for design and installation of 280 kWp solar PV plant in the campus.

Solar Power Plant Installation:

- Grid connected solar PV plant of 280 kWp has been established on rooftop of various blocks in the campus.
- The solar power is pumped into the grid during non-working days of the college which will reduce the burden of state electricity supply up to certain extent.
- It helps students to acquire the practical knowledge of tapping the power from non-conventional source of energy which will implant the need for Renewable Energy Sources in minds of younger generation.

Installed Solar power plant details are furnished below:

Name of the Sub Plant	Installed Power	Date of Commencement of Plant	Energy produced as on date (kWh) As on 10.12.2015	Reduction in CO ₂ Emission (Tonnes) As on 10.12.2015
CVR PG Block	120.00 kWp	03.03.2014	331,462	182
Single Axis Tracking	40.00 kWp	18.01.2015	69,160	38
Library	20.00 kWp	23.02.2015	25,334	14

Single Axis Polar Tracking	40.00 kWp	11.03.2015	58,881	32
CVR CS Block	60.00 kWp	22.10.2015	23,205	13
Overall Plant Capacity	280.00 kWp	---	508042	279

Solar plants are also installed on rooftops of hostel and canteen for hot water. This reduced the power demand of the college.

The following teachers are involved in this project

Mr.Rajesh kumar, Associate Professor – Planning & Design

Mr.K.Suman, Asst Prof. Testing

Mr.Janardhan G, Asst Prof. Testing.

Student groups are working with the above faculty members for their projects.

13. Research facility / centre with

- State recognition - Nil
- National recognition - Nil
- International recognition - Nil

14. Publications:

S no	Name of the Faculty	No. of Publications (in Last 5 Years)
1.	Dr.S.Venkateshwarlu	14
2.	Dr. K. Dhanvanthri	17
3.	Dr. N.N.V. Surendra Babu	8
4.	Mrs. G. Sree Lakshmi	16
5.	Mr. G. Manohar	5
6.	Mr. B. Kalyana Chakravarthy	1
7.	Mrs. R. Naveena Bhargavi	5
8.	Mr. A. Naveen Kumar	3
9.	Mr.Ch. Lokeshwar Reddy	6
10.	Mr. P. Rajesh Kumar	6
11.	Mr. Rajib Kumar Kar	2
12.	Mr. R. Harsha Vardhan	5
13.	Mrs. Vimala Gupta	-
14.	Mr. P. Vinodh Kumar	4
15.	Ms. E. Hima Bindu	2
16.	Mr. G.Janardhan	-
17.	Mr.K.Suman	7
18.	Mrs.M.Rajasree	7
19.	Ms.M.Rajitha	-
20.	Mr. D. Sreenadh Reddy	1
21.	Mr. C. Krishna Reddy	1
22.	Ms.Ch. Shravani	4
23.	Mr. M.Apparao	1
24.	Ms. K. Deepika	-

25.	Mr.Sravan Kumar Kotha	-
26.	Mr. Ravi Teja	-
27.	Mr.K. Bharath	1
28.	Mr. M. Suresh	-
29.	Ms. G. Sridevi	1
30.	Mr. K.S.V Phani Kumar	9

15. Details of patents and income generated

Nil

16. Areas of consultancy and income generated

Nil

17. Faculty recharging strategies:

Faculty are encouraged continuously to attend education development programs for enrichment of knowledge through workshops, seminars, conferences and faculty development programs conducted within the institute and outside the institute.

In the last 5 years, faculty have attended various such programs conducted by reputed institutions like IIT's, NIT's and various other Universities in India. The faculty participation in conferences, workshops for the last five are as follows:

Publications in National / International Journals in the year 2012-13:

S. No	Name of the Faculty	Title of the Paper Presented	Journal
1.	Mr. Ch. Sunil Kumar	Available Transfer Capability Based Transmission Loading Relief (TLR) in Deregulated Power System	The International Journal ICGST – ACSE Journal Vol. 12, Issue 1, in June, 2012.
2.	Mr. Ch. Sunil Kumar	Determination of Spot Price and Optimal Power Flow in Deregulated Power System	International Journal of Innovative System Design and Engineering, Vol.3, No. 3, in June, 2012.
3.	Mr. Ch. Sunil Kumar	Available Transfer Capability Calculations with Contingencies for Andhra Pradesh State Grid	International Journal of Scientific and Engineering Research, Vol. 3, Issue 6, in June, 2012.
4.	Mr. P. Nagaraju Mandadi	Power System Transient Stability Analysis with SSSC Controller	CVR Journal of Science and Technology, Vol. 2, in June, 2012.
5.	Dr. Sasikala	An Over View Of Dynamic Voltage Restorer for Voltage Profile Improvement	International Journal of Engineering and Advanced Technology Vol.2, Issue.2. in December, 2012.
6.	Dr . M. Sasikala	Impedance Spectroscopic studies on PANi/CeO ₂ Composites	International Journal Of Electrical Engineering and Technology, Volume no.4, Issue no.1, Page nos.1-8, 2013
7.	Mrs. G. Sree Lakshmi	Multilevel Inverters Fed PMSM drive using Carrier Based Space Vector Pulse Width Modulation	CVR journal of Science & Technology, Vol. No.:3, December ,2012, ISSN 2277-3916.
8.	Mrs. G. Sree Lakshmi	Closed loop control of five level Diode Clamped inverter fed PMSM drive using sinusoidal pulse width modulation (SPWM)	International Journal of Systems, Algorithms & Applications (IJSAA) Volume 3, Issue ICRASE 13, May 2013, PP:102-105 ISSN Online:2277-2677.
9.	Mrs. G. Sree Lakshmi	Analysis of two and three level diode clamped multilevel inverter fed PMSM drive using space vector pulse width modulation	UACEE International Journal of Advancements in Electronics and Electrical Engineering – IJAEED Volume 2, Issue 2, June 2013, PP: 19-23. [ISSN 2319 – 7498]

10.	Mrs. R. Naveena Bhargavi	A control Approach for Distributed Power Flow Controller	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) ISSN: 2278-1676 Volume 4, Issue 2 (Jan. - Feb. 2013), PP 06-11
11.	Mrs. R. Naveena Bhargavi	Design and Control of Distributed Power Flow Controller(DPFC)	CVR Journal of Science & Technology, Vol.No.3,December 2012,ISSN 2277-3916

Publications in National and International Conferences in the year 2012-13:

S. No	Name of the Faculty	Title of the Paper Presented	
1.	Mr. G. Manohar	HVDC Connection of Off Shore Power Plants	International Conference on “Electrical and Electronics Engineering”, at Tirupathi, in June, 2012
2.	Mr. K. Suman	Direct Torque Controlled Induction Motor Using Advanced PWM Techniques	International Conference on Recent Trends in Electrical and Electronics Engineering 2012 organized by Jawaharlal Nehru University (JNU), Delhi from 29 th -30 th September, 2012.
3.	Mr. Ch. Sunil Kumar	Transaction Based Transmission Loading Relief of AP State Grid	International Conference on Recent Trends in Electrical and Electronics Engineering, organized by KrishiSanskriti at Jawaharlal Nehru University (JNU), Delhi from 29 th – 30 th September, 2012
4.	Dr. M. Sasikala	Studies on DC Conductivity and LPG Sensing Behaviour of PANI/CCO2 Composites	International Conference on Recent Advances in Material Science (RAMS-2012) organized by Karnataka State Higher Education Council at Bangalore from 6 th – 8 th November, 2012
5.	Mr. K. Suman	Direct Torque Controlled Induction Motor with Space Vector Modulation Fed with a Three-Level Inverter	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES-2012) conducted by CPRI- Bangalore, from 16 th -19 th December, 2012.
6.	Mr. P. Ravibabu	New Heuristic Search approach to enhance the distribution system load balance	IEEE International Conference on Power Energy and Control(ICPEC)-2013
7.	Mr. P.Ravibabu	Maximum Demand Limiter For Reliable Supply by Reducing the Power Cuts to Domestic Loads	IEEE International Conference on Power Energy & Control(ICPEC)-2013
8.	Mr. P.Ravibabu	Operation and Control of Electrical Distribution System with Extra Voltage to minimize the losses	IEEE International Conference on Power Energy & Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.
9.	Mr. P.Ravibabu	Application of Novel DSM Techniques for Industrial Peak Load Management	IEEE International Conference on Power Energy & Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.

10.	Mr. P.Ravibabu	Fuzzy Controlled Intelligent Water Cooler for Energy Conservation and Customer Satisfaction	IEEE International Conference on Power Energy & Control(ICPEC)-2013
11.	Mrs. G. Sree Lakshmi	Closed loop PI control of Two & Three level Diode Clamped Multilevel inverter fed PMSM using SVPWM	International Conference on Electrical, Electronics And Data Communication (ICEEDC) held at Chennai on 10 th March, 2013
12.	Mrs. G. Sree Lakshmi	Multilevel Inverters Fed PMSM drive using SPWM	International Conference held in Jawaharlal Nehru University (J.N.U), New Delhi, 16 th & 17 th March, 2013.
13.	Mrs. G. Sree Lakshmi	Closed loop PI control of PMSM for Hybrid Electric Vehicle using three level diode clamped inverter for optimal efficiency	IEEE International Conference on Energy Efficient Technologies for Sustainability, Nagercoil, Tamilnadu, April 10 th & 12 th , 2013
14.	Mrs. G. Sree Lakshmi	Analysis of two & three level diode clamped multilevel inverter fed PMSM drive using space vector pulse width modulation (SVPWM)	The second International Conference on “Advances in Computer, Electronics and Electrical Engineering” CEEE’13, Organized by Universal Association of Computer and Electronics engineers at Mumbai, India, on 27 th & 28 th April, 2013.
15.	Mrs. G. Sree Lakshmi	Closed loop control of five level Diode Clamped inverter fed PMSM drive using sinusoidal pulse width modulation(SPWM)	The 2 nd International Conference on Recent Advances in Sciences and Engineering at Hyderabad(ICRASE), India on 29 th & 30 th April, 2013.
16.	Mr. Ch. Sunil Kumar	Available Transfer Capability Computations-A case study of Andhra Pradesh State Grid	IEEE International Conference on Advanced Research in Engineering and Technology(IEEE ICARET-2013),Organized by KL University, Vaddeswaram, Guntur District during 8 th & 9 th February
17.	Mr.RajibKumarKar	Analysis Of Doubly Fed Induction Generator Connected to grid	IEEE International Conference on Advanced Research in Engineering and Technology(IEEE ICARET-2013),Organized by KL University, Vaddeswaram, Guntur District during 8 th & 9 th February 2013

Participation in Workshops in 2012-2013:

S. No	Name of the Faculty	Seminars/Workshops/Conferences Attended	Conducted by
1.	Ms. E. Hima Bindu	A two-day workshop on “MATLAB Applications” on 21 st and 22 nd September, 2012.	GITAM UNIVERSITY, Hyderabad
2.	Mr. P. Nagaraju Mandadi,	A National Level workshop on “Quality and Reliability in Engineering”, from 29 th – 31 st December, 2012.	Sreenidhi Institute of Science and technology, Hyderabad
3.	Mr. G. Manohar	A distinguished lecture by Narrain Hingorani on “HVDC and FACTS”, on 22 nd September 2012	IEEE Hyderabad Chapter (at Osmania University)
4.	Mrs. G. SreeLakshmi	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad

5.	Mrs. G. SreeLakshmi	Two day workshop on Real-Time control Systems during July 20 th & 21 st , 2012	JNTUH
6.	Mr. G. Manohar	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
7.	Mr. Ch. Sunil Kumar	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
8.	Mr. B. Kalyan Chakravarthy	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
9.	Ms. R. Naveena Bhargavi	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
10.	Mr. Rajib Kumar Kar	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
11.	Mr. A. Naveen Kumar	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
12.	Ms. Vimala Gupta	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
13.	Mr. Vinodh Kumar	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
14.	Ms. Y. SudhaRani	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
15.	Ms. E. Hima Bindu	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
16.	Mr. K. Lokeswar Reddy	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
17.	Mr. G. Janardhan	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
18.	Mr. K. Suman	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
19.	Ms. M. RajaSree	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad
20.	Mr. J. Praveen Kumar Reddy	A three-day workshop on “MATLAB” from 13 th – 15 th December, 2012.	CVRCE, Hyderabad

Guest Lectures attended during 2012-2013:

1. **Mr. G. Manohar**, Assoc. Prof of EEE Department attended a distinguished lecture by Narrain Hingorani on “**HVDC and FACTS**”, at Osmania University conducted by IEEE Hyderabad Chapter, on 22nd September 2012.
- 2.

Publications in National / International Journals in the year 2013-14:

1.	Ms. G. Sree Lakshmi	Closed Loop Control of Three – Level Diode Clamped Inverter Fed IPMSM with Different Modulation Techniques	International Journal of Global Journal Researches in Engineering for Electrical and Electronics Engineering, Vol 13. Issue 9. in July, 2013.
2.	Ms. G. Sree Lakshmi	Simulation Analysis of IPMSM with Three and Five Level DCML Inverter Using CBSVPWM Technique	International European Scientific Journal, Vol 9, No 21, in July, 2013.
3.	Ms. E. Hima Bindu	Voltage Sag Mitigation Analysis Using DSTATCOM Under Different Faults in Distribution System	International Journal of Emerging Trends in Electrical and Electronics IJETEE, Vol 9, Issue 1, in November, 2013.

4.	Mr. Ch. Lokeshwar Reddy	Minimization of Switching losses in Cascaded Multilevel Inverter using Efficient Sequential Switching Hybrid Modulation Techniques	International Science Index Vol:8, No:3, 2014 waset.org/Publication/9997971
5.	Ms. G. Sree Lakshmi	Fuzzy Logic PID Controller for Three-Level DCML Inverter Fed IPMSM using SVPWM	DRDO sponsored International Conference on Smart Systems, at J. B. Institute of Engineering and Technology, Hyderabad, from 7th - 8th October, 2013.
6.	Mr. Ch. Lokeshwar Reddy	An Efficient Multilevel-Synthesis Approach and its Application to a 27-Level Inverter	World Congress on Engineering and Computer Science 2013, in San Francisco, USA, from 23rd - 25th October, 2013.
7.	Ms. G. Sree Lakshmi	Three –Level DCML Fed PMSM Using SPWM & CBSVPWM Varying Modulation Index	IEEE sponsored International Conference on Control, Automation, Robotics and Embedded Systems held at PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India from 16th - 18th December, 2013
8.	Mr. Ch. Lokeshwar Reddy	Minimization of Switching losses in Cascaded Multilevel Inverter using Efficient Sequential Switching Hybrid Modulation Techniques	World Academy of Science Engineering and Technology(WASET2014) on 30 th & 31 st March 2014
9.	Dr. N.N.V. Surendrababu	Cascaded two level inverter based multilevel STATCOM for high power applications	IEEE transactions on power delivery, Vol.29, Iss:3, Pages:993-1001, June, 2014
10.	S.Venkateshwarlu	A Review on Power Quality in Grid connected Renewable Energy System	CVR Journal of Science & Technology, ISSN 2277-3916, Vol.5, pp 55-59, Dec 2013.

Participation in Workshops in 2013-2014:

S. No	Name of the Faculty	Seminars/Workshops/Conferences Attended	Conducted by
1.	Mr. G. Manohar	A National Level Workshop on “Advanced Power System Protection”, on 27th July, 2013	Vignan Institute of Technology and Science, Deshmukhi, Hyderabad
2	R Naveena Bhargavi	Three day workshop on high Voltage Engineering during 6 th – 8 th March 2013	JNTUH
3	R Naveena Bhargavi	Two Week faculty development programme on recent trends in Automation & Control November during 11 th -22 nd 2013	CVRCE
4	M Rajasree	Two Week faculty development programme on recent trends in Automation & Control November during 11 th -22 nd 2013	CVRCE
5	Rajib Kumar Kar	Two Week faculty development programme on recent trends in Automation & Control November during 11 th -22 nd 2013	CVRCE
6	Ms. G. Sree lakshmi	An ISTE sponsored STTP-Refresher Course on “Applications of Power Electronics in Power Systems” from 25th November - 6 th December, 2013.	Chaitanya Bharathi Institute of Technology Hyderabad

7	Ms. G. Sree lakshmi	A two day training program on “Maintenance of 33/11 KV sub-station, PTR’s and DTR’s, Distribution Network and SCADA”, on 4th and 5th December, 2013.	Central Power Training Institute/APCPDCL/Hyderabad
8	Mr. Ch. Lokeshwar Reddy	“Research Methodology Course” from 16th - 21st December, 2013	JNTU Hyderabad
9	Mr. P.Rajesh Kumar	One day workshop on “ Energy conservation & Management “ on 20 th December 2013	JNTU Hyderabad
10	Mrs. M.Rajasree	A three day workshop on “ Recent trends in Power Electronics and Renewable Energy sources”, from 27 th January to 29 th January 2014	Muffakham Jah College of Engineering and Technology
11	Ms. G. Sree lakshmi,	Three Day workshop on outcome based accreditation during 15 th -17 th Feb 2014	JNTUH
12	Ms. G. Sree lakshmi,	Analysis of diode clamped Multilevel Invertor Fed PMSM drive using CBSVPWM technique	ICAET’s
13	Rajesh Kumar Prakhya	Delegate at International Conference at Green Summit during 5-7June 2014	Green Summit Orchid convention centre Bangalore
14	Mr. Ch. Lokeshwar Reddy	One week Faculty Development program on “Advances in Power Electronics and Drives” from 12 th May to 17 th May 2014	College of Engineering, Osmania University Hyderabad
15	Mr. G.Manohar	One week Faculty Development program on “Advances in Power Electronics and Drives” from 12 th May to 17 th May 2014	College of Engineering, Osmania University Hyderabad
17	Ms. G. Sree lakshmi	A two week faculty development program on “Recent Trends in Automation and Control”, from 11 th - 22nd November, 2013.	CVR College of Engineering, Hyderabad
10.	Ms. R. Naveena Bhargavi	A two week faculty development program on “Recent Trends in Automation and Control”, from 11 th - 22nd November, 2013.	CVR College of Engineering, Hyderabad
11.	Mr. Rajib Kumar Kar	A two week faculty development program on “Recent Trends in Automation and Control”, from 11 th - 22nd November, 2013.	CVR College of Engineering, Hyderabad
12.	Ms. M. Rajasree	A two week faculty development program on “Recent Trends in Automation and Control”, from 11 th - 22nd November, 2013.	CVR College of Engineering, Hyderabad
13.	Mr. P.Rajesh Kumar	A workshop on “ Engineering Research methodologies”, on 17 th and 18 th Jan 2014	CVR College of Engineering, Hyderabad
14.	Mr. Rajib Kumar Kar	A workshop on “ Engineering Research methodologies”, on 17 th and 18 th Jan 2014	CVR College of Engineering, Hyderabad
15.	Ms. G. Sree lakshmi	A workshop on “ Engineering Research methodologies”, on 17 th and 18 th Jan 2014	CVR College of Engineering, Hyderabad

Publications in National / International Journals in the year 2014-15:

S. No	Name of the Faculty	Title of the Paper Presented	Journal/Conference
1	T.Keerthika	A new voltage multiplier topology for the analysis of an interleaved four phase current fed converter	National Conference,Jun-15
2	A.Naveen Kumar	Carrier based Modulation for the SVM of the Matrix Converter	International (IEEE) conference, Jun-15
3	R.HarshaVardhan	Online Coal-Ash Monitoring Technologies in coal washaries – A review	International Journal, PEES,Apr-15
4	M.Rajasree	Advanced Metering Infrastructure in Smart Grid: An Overview	International Conference, ICRTESM, Mar-15

5	Dr. S.Venkateshwarlu, R.NaveenaBhargavi, M.Rajasree	Fault Tolerant Control for Series Compensators for Power System Stability Improvement	International Conference & International journal, ICSTM, Feb-15
6	Dr. S. Venkateshwarlu	Estimation of renewable energy resources for establishing green microgrids	International Journal, IJSTM, Feb-15
7	M.Rajasree	Smart meters in Future power grids: A review	National Journal, CVRJST, Dec-14
8	Ch.Lokeshwar Reddy	Cascaded H-bridge Multilevel Inverter Using New Phase Shifted Carrier Pulse Width Modulation Technique	International Journal, IJAREEIE, Dec-14

Participation in Workshops in 2014-2015:

S. No	Name of the Faculty	Seminars/Workshops/ Attended	Conducted by
1	Mrs. M. Rajasree	One week Faculty Development program on “Distributed Generation and Power Quality Issues” from 30 th June to 5 th July 2014.	College of Engineering, Osmania University Hyderabad
2	Mrs. Ch.Sravani	One week Faculty Development program on “Distributed Generation and Power Quality Issues” from 30 th June to 5 th July 2014.	College of Engineering, Osmania University Hyderabad
3	Mr. A. Naveen Kumar	One week Faculty Development program on “Distributed Generation and Power Quality Issues” from 30 th June to 5 th July 2014.	College of Engineering, Osmania University Hyderabad
4	Mr.C.Krishna Reddy	One week FDP on “8051 Programming using ‘c’”, from 17 th November to 21 st November 2014.	ATI, Hyderabad
5	Mr.D.Sreenadh Reddy	One week FDP on “8051 Programming using ‘c’”, from 17 th November to 21 st November 2014.	ATI, Hyderabad
6	Mrs.M.Swapna	One week FDP on “8051 Programming using ‘c’”, from 17 th November to 21 st November 2014.	ATI, Hyderabad
7	Mrs. R.Naveena Bhargavi	A three day workshop on “Recent Trends in Power System Protection”, from 27 th November to 29 th November 2014	NIT Warangal
8	Mrs. Vimala Gupta	A three day workshop on “Recent Trends in Power System Protection”, from 27 th November to 29 th November 2014	NIT Warangal
9	Mr. Ch. Lokeshwar Reddy	One week Faculty Development program on “Research and Development in Power Electronic Converters for Renewable Sources”, from 8 th to 12 th December 2014	Shri Vishnu Engineering College for Woman, Hyderabad
10	Ms. P. Sudeepika	One week Faculty Development program on “Research and Development in Power Electronic Converters for Renewable Sources”, from 8 th to 12 th December 2014	Shri Vishnu Engineering College for Woman, Hyderabad
11	Mr. P.Vinod Kumar	A three day workshop on “Simulation of Power Electronic Converters, using MATLAB”, from 29 th to 31 st December 2014.	Chaitanya Bharathi Institute of Technology Hyderabad
12	Mrs. Deepika	A three day workshop on “Simulation of Power Electronic Converters, using MATLAB”, from 29 th to 31 st December 2014.	Chaitanya Bharathi Institute of Technology Hyderabad
13	Mr. G.Manohar	A three day workshop on “Simulation of Power Electronic Converters, using MATLAB”, from 29 th to 31 st December 2014.	Chaitanya Bharathi Institute of Technology Hyderabad

14	Mr. B Kalyan Chakravarthy	A three day workshop on “Simulation of Power Electronic Converters, using MATLAB”, from 29 th to 31 st December 2014.	Chaitanya Bharathi Institute of Technology Hyderabad
15	Ms. Sandhya Rani	A three day workshop on “Simulation of Power Electronic Converters, using MATLAB”, from 29 th to 31 st December 2014.	Chaitanya Bharathi Institute of Technology Hyderabad
16	Mr.G.Manohar	Attended a two day national level workshop on “Advanced softwares for Power system protection” from 21 st feb2015 to 22 nd feb 2015.	NIT Warangal
17	Mrs. Ch.Shravani	Attended a two day national level workshop on “Advanced softwares for Power system protection” from 21 st feb2015 to 22 nd feb 2015.	NIT Warangal
18	Rajesh Kumar Prakhya	Attended a 3-day workshop on “Solar photovoltaic training program” from 02-03-2015 to 04-03-2015	University College of Engineering, Osmania University.
19	Ms M Rajasree	Presented paper titled Advanced Metering Infrastructure in Smart Grid 15March 2015	ICRTESSM JNU New Delhi
20	Ms M Rajasree	Published paper titled Advanced Metering Infrastructure in Smart Grid 15March 2015	IJATES
21	Mrs. E.Hima Bindu	Attended a Three day workshop on” PLC training program by Mitsubishi Electric India Pvt. Ltd”. from 13 th may 2015 to 15 th may 2015.	CVR college of Engineering
22	Mrs. K.Deepika	Attended a Three day workshop on” PLC training program by Mitsubishi Electric India Pvt. Ltd”. from 13 th may 2015 to 15 th may 2015.	CVR college of Engineering
23	Mr. K.Bharath	Attended a Three day workshop on” PLC training program by Mitsubishi Electric India Pvt. Ltd”. from 13th may 2015 to 15 th may 2015.	CVR college of Engineering
24	Mr. K.Bharath	Participated in a 10 day faculty program on English and communication skills during 8-19 June 2015	CVR college of Engineering

Publications in National and International Conferences in the year 2015-16

S. No	Name of the Faculty	Seminars/Workshops/ Conferences Attended	Conducted by
1	N.N.V. Surendra babu	Presented a paper on “A Novel DC voltage control for a cascade H Bridge multi-level STATCOM” IEEE IECON2015 conference IECON2015	IEEE IES held at Yokohama Japan
2	Ch.Lokeshwar Reddy	Presented research paper on “A five level Cascaded H-Bridge Multilevel STATCOM” IEEE PrimeAsia 2015 during 27-29 November 2015.	Vasavi College of Engineering
3	Ms G. Sree laxmi	Presented research paper on, “Field Oriented Control of IPMSM using diode lamped multilevel inverter,” during 13-14 th Aug 2015	ICPACE BNM Institute of Technology Bengaluru

Participation in Workshops in 2015-2016:

S. No	Faculty	Workshop attended	Conducted Organization
1.	Ms K Deepika	Participated on Digital Signal Processor Controlled Power Electronic Convertors & Drives during 28-30 September 2015	NIT Warangal
2.	Ms G Sridevi	Participated on Digital Signal Processor Controlled Power Electronic Convertors and Drives during 28-30 September 2015	NIT Warangal
3.	Mr Rajesh Kumar	Participated in National level three day faculty program on Research Challenge in Smart Grid during 5-7 Nov 2015	Shri Vishnu College for Women Bhimavaram
4.	Ms. Chapala Shravani	Participated in one week Training Program on Power Electronics And drives for vehicular systems Technology status and future Trends during 23-28 Nov 2015	Osmania University Hyderabad
5.	Mr. G. Janardhan	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE
6.	Ms Naveena Bhargavi	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE
7.	Ms. M Rajitha	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE
8.	Mrs. Rajasree	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE
9.	Mr. Rajib Kumar	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE
10.	Mrs. Ch. Shravani	Participated in two day short term course on EMF and transmission lines during 4-5 DEC 2015	CVRCE

18. Student projects

- percentage of students who have done in-house projects including inter-departmental: 70%
- percentage of students doing projects in collaboration with industries / institutes: 20%

We encourage students to do projects in industries like BHEL, HCL, ECIL, Power GRID, DRDL, RCI, South central railway, NTPC, KTPS, Nagarjuna Sagar hydro power plant etc.

19. Awards / recognitions received at the national and international level by**Faculty:**

- Prof. A. D. Rajkumar was a expert panel member of AICTE, UPSC, Executive council member of JNTUH
- Dr. N. N. V. Surendra Babu, Professor, delivered a guest lecture on “Sinusoidal PWM inverters,” at Apoorva workshop, Dt. 08.08.2014 at SRKR Engineering College, Bhimavaram, A.P
- Dr. N. N. V. Surendra Babu, Professor, delivered a guest lecture on “Grid Synchronization of Power Electronic Inverter,” at a FDP, Dt. 10.12.2014, SVEC, Bhimavaram.
- Dr. S. Venkateshwarlu, HOD & Professor delivered a guest lecture on “Smart Micro Grid,” Dt. 04-03-2015 at Vignan University, Guntur
- Dr. N. N. V. Surendra Babu, Professor received UGC travel grant for presenting research paper at IECON-2015, Yokohama, Japan during Nov. 2015
- Dr. S. Venkateshwarlu is a reviewer for IECON2015
- Dr. N. N. V. Surendra Babu is a reviewer for IECON2015 and IEEE Transactions on Power Electronics

- Dr. S. Venkateshwarlu published an article on “Tools to be learned by EEE graduates,” in Sakshi news paper on 24.02.2014

By Students :

- Ms. V. Harini, (12B81A0227) was selected for Indian science Academies Fellowship at IIT Bombay to work under Dr. Vivek Agarwal during the summer of 2014
- G. Ravi Kumar, (13B81A0264) secured second prize in projects design competition, Texonance at O.U college of engineering, Osmania university, Hyderabad, during Feb. 2014
- Hareesh Reddy (12B81A0228) won the engineer of the year award conducted by IEEE student branch
- A. Abhinav (14B81A0202) secured first prize in paper presentation contest at CBIT, Hyderabad during Oct. 2015
- Ms. B. Rajita (13B81A0268) won the medal at 61st Junior Telangana State Ball Badminton Championship, Khammam during Sep. 2015
- Manasaveena (11B81A0237) secured first prize in paper presentation conducted by BVRIT, Hyderabad during Dec. 2014
- S. Karthik Reddy (14B81A0220) won 2nd prize in youth Parliament competition organized by RamaKrishna Matt, Hyderabad during Jan. 2011
- Mr.G.Ravi kumar (12B81A0264) Secured Thried Prize in MITSHUBISHI All India Project contest held at pune during 11th to 13th february 2016 for his automation Project.

20. Seminars/Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

S.No	Name of the conference/workshop	Dates organized	Source of funding
1.	Advances in power electronics for power generation & power system operation	09.12.2009-11.12.2009	CVR college of engineering
2.	Recent solutions of power quality problems	12.03.2010-13.03.2010	CVR college of engineering
3.	Power electronics & drives	30.12.2010-31.12.2010	CVR college of engineering
4.	Advances in electrical engineering	21.10.2011-23.10.2011	CVR college of engineering
5.	Recent trends in power electronics & power systems	03.12.14-05.12.14	CVR college of engineering
6.	Emerging trends in power electronics & power systems	11.02.2016-13.02.2016 (scheduled)	CVR college of engineering

21. Student profile course-wise:

B. Tech:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2011-2015	Admissions are filled through EAMCET counseling, A.P	87	33	96.5%	100%
2010-2014		78	28	92.86%	93.33%
2009-2013		79	36	95.18%	100%
2008-2012		69	37	90.79%	90.24%
2007-2011		45	14	97.8%	100%
2006-2010		39	16	95.12%	100%

M. Tech:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2013-2015	Admissions are filled through GATE and PGCET	08	10	100%	100%
2012-2014		11	6	100%	100%
2011-2013		11	5	100%	100%
2010-2012		14	4	100%	100%

22. Diversity of students for 2015-16

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B. Tech	-	100%	-	-
M. Tech	-	100%	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

S. No	Roll No	Name	Percentile/Rank/Score
1.	06B81A0259	Mr. P. Srinivasa Ravi Teja	94.89% GATE
2.	06B81A0228	Mr. T. Mahesh	92.72% GATE
3.	06B81A0252	Mr. A. Sarat Chandra	92.4% GATE
4.	08B81A02B7	Ms. Trina Roy	97.96% MAT score
5.	08B81A0247	Mr. B. Naga Raju	AIR-5000 GATE
6.	09B81A02A7	Ms. Ch. Sruthi Reddy	897 GATE
7.	09B81A0243	Mr. B. Kiran kumar	2030 GATE
8.	10B81A0218	Mr. Eshwar Reddy Pasula	316 GRE
9.	10B81A0219	Ms. Gayathri Nagavali	304 GRE
10.	10B81A0223	Lave Hemanth	302 GRE
11.	10B81A0229	Kanuganti karthik reddy	317 GRE
12.	10B81A0212	Chetan reddy	290 GRE
13.	10B81A0215	dileep kishan.U	298 GRE
14.	10B81A0251	G.Navya	298 GRE
15.	10B81A0252	Nikhil Jonnalagadda	311 GRE
16.	10B81A0253	S.Nithish Bharadwaj	300 GRE
17.	10B81A0209	chandrakanth reddy	298 GRE
18.	10B81A0211	charishma reddy.T	296 GRE
19.	11B81A0202	Amusku Bhilash Reddy	295 GRE
20.	11B81A0204	Bheema Aditya Goud	AIR-634 GATE
21.	11B81A0216	Halvi Chaitanya	307 GRE
22.	11B81A0217	Papolu Chandra Vardhan	298 GRE
23.	11B81A0230	Gelli Karthik	292 GRE
24.	11B81A0232	Kandula Kedarnath	88.77% CAT
25.	11B81A0236	Mallikarjuna P	AIR-14935 GATE
26.	11B81A0250	Katterapalli Prashanth	AIR-7532 GATE
27.	11B81A0254	T Prema Latha	AIR-14835 GATE
28.	11B81A0259	Bonagiri Rajesh	298 GRE
29.	11B81A0260	Rajkumar	AIR-13629 GATE
30.	11B81A0263	Avula Ravivarma	AIR-9327 GATE
31.	11B81A0265	Loka Rupesh Reddy	302 GRE
32.	11B81A0272	G Sai Sheshan Roy	310 GRE
33.	11B81A0278	A V Sesha Sai	298 GRE

34.	11B81A0288	Thota Sri Pravallika	296 GRE
35.	11B81A0290	Siddi Srikanth	AIR-15580 GATE
36.	11B81A0296	Chityala Sruthi	AIR-8362 GATE
37.	11B81A0298	Surya Prakash Singh	304
38.	11B81A02A6	Moola Veera Pradeep Reddy	AIR-10537 GATE
39.	11B81A02A7	Vunnam Venkata Avinash	294 GRE
40.	11B81A02B3	Gadde Vijaya Kumari	300 GRE
41.	11B81A02B5	Kangante Vishal	AIR-5345 GATE
42.	11B81A02B6	Kankanala Viswathaj	300 GRE
43.	11B81A02B7	P Yashwanth Kumar	310 GRE
44.	11B81A02B9	Sarin Ved	92.26% CAT

24. Student progression

Student progression	Percentage against enrolled
UG to PG	30%
PG to M.Phil.	-
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	60%
• Other than campus recruitment	20%
Entrepreneurs	

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	29%
from other universities within the State	42%
from other universities from other States	29%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Ph. D: 04

The following faculty were awarded Ph.D. degrees:

S. No	Faculty name	Academic year
1	P. Ravi Babu	2009-2010
2	P. Naga Raju	2012-2013
3	Ch. Sunil Kumar	2013-2014
4	N. N. V. Surendra babu	2013-2014
5	G. Sree Lakshmi, Associate professor submitted her thesis to JNTUH in Sep. 2014 and is under review.	

The following teaching faculty have registered for Ph.D. and details are follows:

S. No.	Name	Date of Registration	University	Title of the Research Work
1.	R. Naveena Bhargavi	28-03-2011	OU	Analysis of fault tolerant control system for Improving Performance of FACTS controllers
2.	B. Kalyana Chakravarthy	30-03-2011	OU	FPGA application in Traction Converters

3.	A. Naveen Kumar	3-05-2012	ANU	Multilevel Inverter fed PMSM
4.	Ch. Lokeshwar Reddy	23-10-2012	JNTUH	Investigation and Implementation of Control Strategies for Multilevel Inverters
5.	K.S.V.Phani Kumar	23-10-2012	JNTUH	Integrated Operation of Distributed Resources for Power Quality Improvement in Deregulated Market
6.	G. Manohar	09-09-2014	JNTUK	Low Voltage Ride through capabilities of Doubly fed Induction Generator based wind turbine connected to Grid
7.	Ch. Shravani	09-09-2014	JNTUK	Power Quality Improvement in Distributed Generation system

27. Present details about infrastructural facilities

a) Library

- In the main library, the EEE department has 6166 volumes and 910 titles.
- The department library has 400 volumes, 283 titles, reports of main project and mini projects.
The library is open during working hours
- The department faculty can access IEEE journals.

b) Internet facilities for staff and students

Name of the Internet provider: Apollo Vaishnavi BSNL

Available bandwidth : 75Mbps 35Mbps 10Mbps

Access speed : 2Mbps (max) for individual

Availability of Internet in an exclusive lab : **Yes Available**

Availability in most computing labs : **Yes Available**

Availability in departments and other units : **Yes Available**

Availability in faculty rooms : **Yes Available**

Institute's own e-mail facility to faculty/students : **Yes Available**

Security/privacy to e-mail/Internet users : **Yes Available**

c) Total number of class rooms:

UG: 08 (Each room area of 72 sq. m)

02 (Tutorials rooms size of 36 sq.m)

PG: 02 (Each room area of 50 sq. m)

d) Class rooms with ICT facility: 03

- The department has a seminar hall with a seating capacity of 120 and is equipped with LCD projector, PC and sound system.
- The department has also additional LCD projector to cater various needs.

e) Students' laboratories: 11

S.No	Laboratory description in the curriculum	Space/ number of students	Number of experiments
1	Electrical circuits & Simulation Lab	190 Sqm/30	12
2	Fluid Mechanics and hydraulic machinery lab	200 Sqm/30	12
3	Electrical Machines Lab – I	220 Sqm/30	12
4	Electrical Machines Lab – II	90 Sqm/30	12
5	Control Systems & Simulation Lab	195 Sqm/30	12
6	Power Electronics & Simulation Lab	195 Sqm/30	12
7	Power Systems Lab	72 Sqm/30	12
8	Electrical Measurements Lab	190 Sqm/30	12
9	Electrical Engineering Lab	190 Sqm/30	12
10	M. Tech EPE lab	72 Sqm/18	12
11	M.Tech EPE Research Lab	72 Sqm	For Projects
12	B. Tech projects lab	70 Sqm	12
13	Research Laboratories	01 (72 Sqm)	

➤ Printed laboratory manuals are given to all the students



Electrical Machines Lab

This lab facilitates students in performing experiments on various DC and AC Machines which are widely used in industry.

Major equipment:

DC Generators and Motors
AC Generators and Motors
Transformers,
Rectifier Unit 220V, 100 A



Electrical Circuits & Simulation Lab

Experimental verification of various network theorems and basic analysis of circuits using trainer kits and simulation tools can be performed in this lab.

Major equipment:

Regulated power supplies
PSICE Simulation Tool
Training Kits for theorems.



Control Systems & Simulation Lab

Students implement various types of compensators, control of servo drives and PLCs using experimentation and simulation.

Major equipment:

DC & AC Servo motors
PLC trainer kit with Traffic Light Control Application
Synchros & CROs
MATLAB & PSPICE



Power Electronics & Simulation Lab

Students perform experiments to obtain characteristics of power semiconductor devices, Phase controlled Rectifiers, Inverters, choppers and Cyclo-converters with various loads.

Major equipment:

Converters (Rectifiers, Inverters)
Firing circuits
Storage oscilloscopes
PSPICE



Microprocessors & Microcontrollers Lab

Hands-On Experience on 8086 Micro-Processors & 8051 Controllers for real-time control applications using MASM and Keil software.



Electrical Measurements Lab

Testing of CT, PT and characteristics of various sensors, along with measurement of various electrical parameters.

Major equipment:

HT Oil Testing Kit
CTs, PTs & Phase shifting transformers
R,L,C bridges
LVDT, Strain Gauge



Power Systems Lab

This is a state-of-the-art lab and CVR is one of the few colleges having this laboratory. The fault analysis in transmission lines, performance characteristics of various relays and protection schemes for generators and transformers are carried out.

Major equipment:

Transmission line simulator

Relays

Synchronous machines and Transformers



Projects Lab

Students develop hardware models as part of mini and major projects.



Department Library

The department library has 425 volumes, 264 titles, reports of main project and mini projects. The library is open during working hours for the EEE students and faculty.

28. Number of students of the department getting financial assistance from College.

No. of students of the department availed financial assistance from the State & Central governments

course	year	2011-12	2012-13	2013-14	2014-15	2015-16
M.Tech	I Year	3	4	9	2	3
	II Year	4	3	4	9	2
B.Tech	I Year	47	46	51	46	44
	II Year	49	47	45	50	44
	III Year	50	50	46	45	51
	IV Year	39	49	49	45	46

29. Was any need assessment exercise undertaken before the development of new program(s)?

If so, give the methodology.

The department carried out the assessment exercise for the starting of new PG programme (Electrical power engineering) in the year 2010-11.

The following procedure is used:

- Demand for the PG course among the students
- Increased employment opportunities
- Suggestions from the industry experts
- Feedback from the alumni.
- Space and Laboratory facilities
- Investment from the management
- Demand in the colleges already offering such courses
- Admission data at state level

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The EEE department takes feedback from respective faculty as self appraisal form and used

To fill the gaps in the academic curriculum

- To find the need for including the new courses
- To identify the shortfalls in the teaching learning process

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedback collection process: The feedback proforma is standardized taking inputs from faculty and guidelines of the university. Every department has one faculty in charge for feedback. The feedback is taken at 4th week of commencement of semester and at 15th week of semester. The feedback is collected by the in charge and other than the class teacher.

Percentage of students participating: 75%

Specify the feedback analysis process:

The Feedback is analyzed manually.

The core metric derived out of the analysis process is the mean of average of the rating. The metric accounts for – The basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage, Clarity of expression, teachers command over the subject, regularity of the student and overall opinion.

Basis of reward / corrective measures, if any:

- o A Bench of mark of 75% grading is adopted. Faculty scoring 65 to 75% are individually counseled by the respective Head of Department.
- o Faculty scoring 55 to 65 % are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. This has helped many junior faculty members to improve, through regular interaction with the Associate Professors.
- o Faculty scoring less than 50% is taken as serious cases for review, for one more semester.

Corrective measures:

- Counseling by Head of Department/ close monitoring and interaction by the senior faculty member. Change of subject under special cases. Psychology of batch of students etc. considered for corrective measures.
- Adequate time is given for faculty members to strive for perfection.

Number of corrective actions taken in the last three years:

- Specific remarks of the Head in few cases based on consistently unsatisfactory performance are annually viewed for remedial measures
- Where the feedback is not good, teaching load is reduced.
- No staff member is given two subjects in a semester.
- Corrective measure - giving more laboratory classes.
- Any fresh faculty is given theory , only, after one year.

c. Alumni and employers on the programmes and what is the response of the department to the same?

- The college interacts regularly with the alumni and employers to take necessary steps to update real time application in the curriculum and train the students according to the requirement.
- The college is ratified by Tata Consultancy Services, Infosys for placements.

31. List the distinguished alumni of the department (maximum 10)

S.No	Roll No	Name of the student	Name of Organization
1.	08B81A0253	Naveen Kumar Edla	Rashtriya Nigam Limited(Vishakhapatnam
2.	08B81A0256	Nikhil Bajjuri	RESEARCH CENTRE IMARAT Research
3.	08B81A0282	Bingi Sai Goutham	L&T Technologies Services Limited
4.	09B81A0232	G. Harish	HAL, Bengaluru
5.	09B81A02A8	Syamanth Naga Vivek	Cognizant Technology solutions Private
6.	09B81A0245	R. Madhu Kumar	Cadence, Bengaluru
7.	09B81A0262	P. Naveen Kumar	NALCO, Bhuvaneshwar
8.	10B81A0213	K. Dharma Teja	Virtusa, Hyderabad
9.	10B81A0267	A. Rahul	AM Signaling, Hyderabad
10.	10B81A0252	Nikhil Jonnalagadda	TATA consultancy services Limited
11.	10B81A0253	S. Nitish	Cognizant Technology solutions Private
12.	10B81A0299	Siddarth Konkimalla	INTO University of South Florida
13.	10B81A02A1	P Sneha Priya	HSBC software Development(india) Private
14.	10B81A02B7	B. Vijay	Amazon Development Center India Pvt Ltd
15.	11B81A0254	PREMA LATHA	Cadence, Bengaluru
16.	11B81A0237	MANASA VEENA	L& T Metro Rail
17.	11B81A0275	SANTHOSH	L& T Metro Rail
18.	11B81A0296	Ch. Sruthi	AM Signaling, Hyderabad

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

Guest Lectures conducted by the department for the students in 2011-12:

S.No.	Event	Topic	Month-year	No. of participants	Remarks
1	Guest Lecture under ISTE Students Chapter	Controller Design of Missile Systems	July 2011	Faculty,III and IV year students	R. Sundara Rajan, Scientist-G DRDL, Hyderabad

2	Guest Lecture under ISTE Students Chapter	Advances in Transformers	26 th , August	Faculty, III and IV year students	Mr. Bangar Raju, Additional General Manager BHEL(retd.)
3	Guest Lecture under ISTE Students Chapter	Synchro Phasor Deployment in Northern Grid of India	22 nd , November, 2011	Faculty, III and IV year students	Prof. Kiran Kumar Jain Retd. S.E Madhya Pradesh State Electricity Board
4	Guest Lecture under ISTE Students Chapter	Missile Systems	March, 2012	Faculty, III and IV year students	R. Sundara Rajan, Scientist-G DRDL, Hyderabad
5	Guest Lecture under ISTE Students Chapter	Recent Advances in Electrical Engineering	26 th Oct, 2012	Faculty, III and IV year students	Dr. N. K. Kishore Prof. IIT Kharagpur

Guest Lectures conducted by the department for the students in 2012-2013:

S.No.	Event	Topic	Month-year	No. of participants	Remarks
1	under ISTE Students Chapter	Recent Advances in Electrical Engineering	26 th Oct., 2012	Faculty, III and IV year students	Dr. N. K Kishore, Prof,EEE,IIT Kharagpur.
2	under ISTE Students Chapter	Recent Advances in Power Systems	5 th March, 2013	Faculty, III and IV year students	Prof. K. B. Raju Ex.AGM BHEL R & D
3	under ISTE Students Chapter	Energy and Environmental problems facing third world and solutions	6 th March, 2013	Faculty, III and IV year students	Dr. D. P Kothari Retd. Professor, IIT Delhi, Ex.V.V. VIT Vellore

Guest Lectures for Students 2013-14:

S I No	Date	Guest Speaker	Title of the Guest Lecture
1	09.01.2014	Sri.Chamarthi Srinivas, CYME Solutions	Signal Processing Applications in Power Electronics
2	05.02.2014	Dr.V.T Somashekar, NIT Warangal	Power Electronics and Applications



Rangoli made by III Year Students



**Chairman Dr. Cherabuddi V. Raghava felicitating
Chief Guest Dr. V. T. Soma Sekhar, NIT
Warangal**



Ms. Mounika, III Year Student briefing about her project to the Chairman, Principal and Professors

Guest Lectures for Students 2014-15:

S I No	Date	Guest Speaker	Title of the Guest Lecture
1	23.07.2014	Mr.Phani Vasista USA	Into The Future Career guidance –Focus on Masters abroad.
2	22.09.2014	Mr.S .Eswar Rao BHEL R&D,HYD	Facts Devices and Emphasis on STATCOM
3	22.09.2014	Mr. M. Gopala Krishna, Retd. IAS	Student-Future
4	06.04.2015	Dr.Y.Pradeep Kumar IITH	Smart Grid Systems



Dr. Pradeep, Asst. Prof, IIT Hyderabad delivering a lecture on Smart Grid



Prof. L.C Siva Reddy Vice-Principal felicitating Dr. Pradeep



Sri. S. Eeshwar Rao, Sr.

R&D, Hyderabad presenting a lecture on STATCOM

Scientist, BHEL



Enlightened talk by Sri Gopala Krishna IAS during Michael Faraday's Memorial Celebrations



Sri. M.Gopala Krishna, IAS felicitated by Dr. A. D. Rajkumar, Dean Academics

Industrial Visits During 2013-14

1. III EEE- B students visited **CPRI**, Uppal, Hyderabad on 27.12.2013.
2. III EEE-A visited Nagarjuna Sagar Power House on 25.01.2014.
3. III EEE-B visited Nagarjuna Sagar Power House on 01.02.2014.
4. II EEE-A visited KPK Power Industries on 21.02.2014.
5. III EEE-A&B students visited KTPS during 21st & 22nd of March, 2014.
6. II EEE-B students visited KPK Power Industries & Axiom Energy Conversion Ltd. on 25.04.2014.

Industrial Visits During 2014-15

1. II EEE-A students visited Mamidipally 400KV Substation on 11.09.2014.
2. III EEE-B students visited Mamidipally 400KV Substation on 11.09.2014.
3. III EEE-A students visited Mamidipally 400KV Substation on 11.09.2014.
4. IV EEE-A students visited CPPI on 12.09.2014.
5. II EEE-A&B students visited BHEL on 31.10.2014.
6. III EEE-A students visited Nagarjuna Sagar Power House on 24.01.2015.
7. III EEE-A&B visited Axiom Energy Conversion Ltd. on 31.01.2015.

Industrial Visits During 2015-16

1. III EEE-A&B students visited KTPS on 10th & 11th of September, 2015.
2. II EEE-A&B students visited BHEL on 29.09.2015.



IV year students visited Central Power Research Institute (CPRI), Hyderabad, Sep-2014



III year students visited 400 KV Substation Mamidipally, Hyderabad, Sep-2014



Industrial Visit by the IInd year Students April 2014



III Year students visited K.R.K Power Industries and Axiom Energy Conversion Ltd, Cherlapally Hyderabad -April 2014



III Year Students visited Nagarjuna Sagar Power House, Jan-2014

Workshops Arranged for students 2013-14:

- 3-day workshop on **“PCB making and circuit design”** for II EEE students(12B) by insignia labs, 24 to 26- Feb,2014.
- 3-day workshop on **“Embedded systems”** for III EEE(11B) by insignia labs, 3 to 5 - march,2014.

Workshops Arranged for students 2014-15:

- 2-day workshop on **“Embedded python”** for III EEE (12B) by insignia labs- 7,8 Jan 2015.
- 2-day workshop on **“Electronic circuit design and PCB fabrication”** for II EEE (13B) by senior students on march 10,11-2015.
- 2-day workshop on **"ARDUINO and its applications"** for III EEE(13B) by their senior students on 11,12 August 2015.

PCB Designing workshop conducted by III Year students for II Year students in 2014. (Its Unique)



Professors are curiously watching the students progress on the task given



2nd Year EEE students participating in the workshop-organized by their senior students



Ms. Umajeevani (III Year), explaining the circuit design to II Year students



Mr. Vinod, Asst. Prof Demonstrating Designing techniques

ARDUINO workshop conducted by IV Year students for II and III Year students, 2015.



Mr. Vinod giving instructions to students during Arduino workshop



IV Year student organizers guiding the III year student participants

List of student Internships 2014-2015

S.No	Name of the Student	Internship attended	Conducted By	Duration
1	Ms V. Harini	Industrial training	BEL,Hyderabad	1-12-2014 to 6-12-2014
2	Mr K. Goutham Kumar Reddy	Internship (Manufacture of Turbo Generators)	BHEL , Hyderabad	20-6-14 to 05-07-14
3	Mr B. Harish Kumar Reddy	Internship (Manufacture of Turbo Generators)	BHEL, Hyderabad	20-6-14 to 05-07-14

List of student Internships 2014-2015

1	Mr. G.Ravi kumar	Internship	TCS,Hyderabad	10-12-2015 to 31-05-2016
2	Mr B. Harish Kumar Reddy	Internship	GLOBAL EDGE Pvt.Ltd. , Bangalur	02-01-2016 to 31-01-2016
3	Ms.K.Pravalika	Internship	TCS,Hyderabad	10-12-2015 to 31-05-2016
4	Ms.K.Manasa	Internship	TCS,Hyderabad	10-12-2015 to 31-05-2016

Participation of students in conferences in 2011-12:

S. No.	Name of Event	Month-year	Prize Winners/Participation
1.	Technical Quiz at CVRCE(under ISTE)	March 2012	1 st prize Dattatreya Naik III year & Anjana III year 2 nd prize Shruthi Reddy III year & Lavanya III year
2.	Technical Paper Presentation at National level Student Technical Symposium, ACE Engineering College, Hyderabad.	5 th & 6 th March, 2012	P.Ratnakar Babu III Year Won 2 nd Prize
3.	Presented paper on the topic name "Wireless Power Transmission" in CIENCIA-2K12(National level Technical Symposium)	16 th and 17 th of march	A.Guna Shekar Reddy, P.Mallikarjuna, P.V.L.Manaswitha of II

	at C.V.R college of Engineering.	2012	EEE-A
4.	Presented paper on the topic name “Hydro Electricity” in CIENCIA-2K12(National level Technical Symposium) at C.V.R college of Engineering.	16 th and 17 th of march 2012	C.Sruthi
5.	International Conference on Electrical Engineering and Computer Science (ICEECS), Goa, India	May, 2012	P.Deepak Reddy Won 1 st Prize K.Bala Subramanyam IV Year
6.	Published paper in I-Manager’s Journal of Electrical Engineering , Vol.6 on “HVDS Approach for Reducing the Technical and Non-Technical Losses to enhance the Electrical Distribution System Performance “	September 2012	Ms. B. Sushma M. Tech (EPE) II Year
7.	Technical Paper Presentation at “ IEEE Fifth India International Conference on Power Electronics” IICPE2012, held at Delhi Technological University,Delhi	6 th -8 th December 2012	Ms. B. Sushma M. Tech (EPE) II Year
8..	Participated in Technical paper presentation in PROMETHEAN’13 (National level Technical Symposium) at Dr.B.V.Raju Institute of Technology.	14 th and 15 th of March 2013	P.V.L. Manaswitha
9.	Participated in Paper presentation on “POWER THEFT” in CIENCIA 2K12 (National level Technical Symposium) at C.V.R college of Engineering.	16 th and 17 th March 2013	Suman Prathyusha preetham
10.	Participated in Paper presentation on “Hybrid Vehicle Configuration with Zero Emission” in CIENCIA 2K12 (National level Technical Symposium) at C.V.R college of Engineering.	16 th and 17 th March 2013	P.V.L. Manaswitha

Participation of students in workshops in 2012-2013:

S.No.	Roll number	Name of Student	Details
1	12B81A0248	V.Avinash	Participated in Workshop on Robotics at CIENCIA 2K12 held on 16 th and 17 th of March 2013
2	12B81A0251	G. Pranay kumar	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013
3	11B82A0256	T.Pravalika	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013
4	11B81A0219	K. Bhagyasri	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013

5	11B81A0244	P.M Samyuktha	Participated in Loophole Ehical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013
6	11B81A0243	Y.Mounika	Participated in Loophole Ehical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013
7	11B81A0249	B. Poojitha	Participated in Loophole Ehical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 st and 2 nd of March 2013
8	11B81A0223	A.Guna Shekar Reddy	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
9	11B81A0221	P. Durga	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
10	11B81A0265	L. Rupesh Reddy	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
11	11B81A0230	G.Karthik	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
12	11B81A0232	K. Kedarnath	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
13	11B81A0236	P. Mallikarjuna	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
14	11B81A0238	D. Maninder	Participated in the one day workshop on “Learning outcomes” at C.V.R college of Engineering on 16 th of March 2013
15	10B81A02A9	G.Suman Prathyusha Preetham	Participated in the one day workshop on Embedded Linux Device Drives held on 31 st March at IETE hall O.U Campus Under the auspices of students branch of IEEE
16	10B81A02A9	G.Suman Prathyusha Preetham	Participated in the one day workshop on “Power plant process and Automation” at C.V.R college of Engineering on 2 nd april 2013
17	12B81A02A6	B.UmaJeevani	Participated in the two day workshop on “image processing and microcontroller programming” at IIT Hyderabad 14th & 15th September 2013.
18	12B81A0279	M.Shirisha	Participated in the two day workshop on “image processing and microcontroller programming” at IITHyderabad 14th & 15th September 2013
19	12B81A0274	P.SaiSnehithReddy	Participated in the two day workshop on “Controls & Instrumentation of Modern Power Plants” at IIT Hyd 14 & 15 Sep 2013

Participation of students in internship in 2012-13:

Sno	Roll Number	Name of Student	Details
1	11B81A02B5	K. Vishal	Nagarjuna sagar power House,APGENCO During period 21 st may 2013 to 3 rd june 2013.
2	11B81A0296	C. Sruthi	KTPS (Stage –VI) ,APGENCO During period 13 th june to 28 th june 2013.
3	10B81A02B7	B. Vijay	Central Power Training Institute, APCPDCL, Hyderabad. During period 13 th august and 14 th august
4	11B81A02B1	V.V.S. kartheek	Internship done in “BHEL”, Hyderabad. During period 2 nd 376ecember to 17 th December 2013
5	11B81A0221	P. Durga	BHEL, Hyderabad. During period 2 nd 376ecember to 17 th December 2013
6	12B81A0227	V. Harini	IIT MUMBAI for two months (may and june).

Participation of Students conferences 2012-2013

S. No.	Title	Presenter and Place
1.	Auto dirt sensor and cleaner in overhead tank	K. Vishal (11B81A02B5) at Marudhar Engineering college, Rajasthan.
2.	Microlevel non-conventional Electricity Generation	B. Nikhitha Nanda (11B81A0246) at IEEE Gobar Humanitarian Technology Conference –South Asia Satellite2013 in Thiruvananthapuram
3.	Hybrid Energy	P.Durga (11B81A0221) at MGIT Hyd.
4.	Prepaid Energy Meters based on MicroControllers	B.UmaJeevani (12B81A02A6) M.shirisha (12B81A0279) at BITS Pilani
5.		P. Durga (11B81A0221 at GRIET Hyd.
6.	Modern power semiconductors devices	A.Guna shekar reddy (11B81A0223) P. Mallikarjuna (11B81A0236) at BVRIT Hyd.
7.	Resonant converters	G. Karthik (11B81A0230) K. Kedarnath (11B81A0232) at BVRIT Hyd.
8.	Islanding of inverters	D. Maninder (11B81A0238) K. Prashanth (11B81A0250) at BVRIT Hyd.
9.		C. Archana Kumari (12B81A0215at SNIST Hyd.
10.	A study on the viability of large scale smart grid establishment through case studies of successful ventures	V. Harini (12B81A0227) at SVECW Bhimavaram.
11.		R. Kinnera (12B81A0235) P.Nancy Samyukta (12B81A0244) at ACE Engineering College Hyd.
12.	Piezo Electric Roads	Y.SaiNath Reddy (12B810275) at SNIST Hyd.
13.	ELAN14	Y.SainathReddy (12B81A0275) at IIT Hyderabad
14.	Circuit Trix	B. Harish Kumar Reddy (12B81A0228) S. Karthik (12B81A0233) at ANURAG Group of Institutions Hyd.
15.	Invasion	B. Harish Kumar Reddy (12B81A0228) S. Karthik (12B81A0233) at ANURAG Group of Institutions Hyd.
16.	Tech Quiz	B. Harish Kumar Reddy (12B81A0228) S. Karthik (12B81A0233) at ANURAG Group of Institutions Hyd.

17.	ACUMEN CIVIL'14	B.UmaJeevani (12B81A02A6)
18.	Image processing and microcontroller programming	B.UmaJeevani (12B81A02A6) M.Shirisha (12B81A0279) P.SaiSnehithReddy (12B81A0274) at IIT Hyd.

Participation of students in conferences in 2013-14:

S.No	Roll number	Name of student	Title/ Venue
1.	11B81A0238	D. Maninder	"Islanding of inverters" in MEDHAVESH'14 at Dr. BVRIT, Hyderabad, 3 rd - 4 th Jan. 2014.
2.	11B81A0250	K. Prashanth	"Islanding of inverters" in MEDHAVESH'14 at Dr. BVRIT, Hyderabad, 3 rd - 4 th Jan. 2014.
3.	12B81A0215	C. Archana Kumari	won first prize in SPARDHAA'14 at SNSIT, Hyderabad, 25 th - 26 th Jan. 2014.
4.	12B81A0227	V. Harini	"A study of the viability of large scale smart grid establishment through case studies of successful ventures" at ETE_2014, SVECW Bhimavaram 7 th - 8 th of Feb. 2014.
5.	12B81A0235	R. Kinnera	ANUSHTHANA'14 at ACE Engineering college, 14 th -15 th of Mar. 2014.
6.	12B81A0244	P.Nancy Samyukta	ANUSHTHANA'14 at ACE Engineering college, 14 th - 15 th Mar. 2014.
7.	12B81A0243	Y. Mounika	won Second Prize in CIENCIA'14, 14 th - 15 th Mar. 2014 at C.V.R.C. E.
8.	12B81A0227	V. Harini	won Second Prize in CIENCIA'14, 14 th - 15 th Mar. 2014 at C.V.R.C. E.
9.	12B81A0236	Krishna chaitanya	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
10	12B81A0244	P. N. samyuktha	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
11	12B81A0235	R. kinnera	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E.
12	12B81A0212	R. Anusha	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
13	12B81A0222	Dharanidhar	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
14	12B81A0256	T. Pravallika	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
15	11B81A02B5	K. Vishal	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
16	11B81A0296	C. Sruthi	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
17	12B81A02A6	B.UmaJeevani	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
18	12B81A0279	M.Shirisha	CIENCIA'14 14 th - 15 th Mar. 2014 at C.V.R.C. E
19	12B810275	Y.SaiNath Reddy	Adastra'14 14 th - 16 th Mar. 2014, SNSIT, Hyderabad

Participation of students in Conferences 2014-2015

Sno	Roll number	Name of student	Detail
1	12B81A0274	P SAI SNEHITH REDDY	Presented a paper at ' SHAASTRA 15' organized by IIT MADRAS on 3 rd &4 th march 2015
2	12B81A0279	A TEJASWINI	Presented a paper at ' IJARSE' organized by IJARSE on 4 th Feb 2015
3	12B81A0274	P SAI SNEHITH REDDY	Presented a paper at ' ADASTRA 15' organized by SNIST HYDERABAD on 19 th & 20 th march 2015

4	12B81A0263	S RAMYA	Presented a paper at ‘IJARSE’ organized by IJARSE on 4 th Feb 2015
5	12B81A0269	L.SAI BHARGAV	Presented a paper at ‘IJARSE’ organized by IJARSE on 4 th Feb 2015
6	12B81A0277	TANMOY SARKAR	Presented a paper at ‘THSSMUN 15’ Organized by HSS on 30 th and 31 st January 2015
7	12B81A0273	P.SAI NIKHIL	Presented a paper at ‘IJARSE’ organized by IJARSE on 4 th Feb 2015
8	12B81A0277	TANMOY SARKAR	Presented a paper at ‘ICSTM 15’ Organized by ICSTM on 1 st February 2015
9	12B81A0256	T.PRAVALIKA	Presented a paper at ‘TECHNOSTAV’ Organized by SICE HYDERABAD in the year 2015
10	11B81A0237	B.MANASA VEENA	Presented a paper at ‘MEDHANVESH 2K15’ Organized by BVRIT HYDERABAD 23 RD &24 TH January 2015
11	12B81A0228	B.HARISH KUMAR REDDY	Presented a paper at ‘WIDYUTH 2K15’ organized by MVSREC Hyderabad on 20 th &21 st Feb 2015
12	12B81A0230	S JAYA BHARAT	Presented a paper at ‘WIDYUTH 2K15’ organized by MVSREC Hyderabad on 20 th &21 st Feb 2015
13	12B81A0252	D PRANEETH	Presented a paper at ‘WIDYUTH 2K15’ organized by MVSREC Hyderabad on 20 th &21 st Feb 2015
14	12B81A02B3	B.VIKAS DEEP	Presented a paper at ‘IJARSE’ organized by IJARSE on 4 th Feb 2015

33. List the teaching methods adopted by the faculty for different programmes:

- Lecture delivery with discussion (blackboard teaching)
- Tutorial (problem solving classes)
- PPT Presentations
- Experimental
- Remedial Classes
- Group assignments/ Projects
- Course files
- Lab Manuals
- Industry visits & tours

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

PEOs and POs are well published by displaying in college web site.

The department strives constantly to meet the programme objectives and learning outcomes by direct and indirect assessment methods.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

The Program Educational Objectives for the Electrical Engineering Program are broad statement that describe what graduates are expected to attain within a few years after graduation to accomplish in their career and profession, that the program prepares graduates to achieve.

No	PEO Statements
PEO 1	To prepare students to excel in post-graduated programmes or to succeed in the electrical industry or in technical professions, through global rigorous training during the program.
PEO 2	To provide the students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems in an industry or in a profession or to pursue higher studies.
PEO 3	To train students with good scientific and engineering breadth so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
PEO 4	To inculcate in students, a professional and ethical attitudes, an effective communication skills, team work skills, a multidisciplinary approach and an ability to relate engineering issues to a broader social context.
PEO 5	To provide student with an academic environment aware of excellence leadership, written ethical codes and guidelines and the life-long learning needed for a successful professional career.

PROGRAM OUTCOMES (POs)

Program Outcomes are broad statements which describe what students will know and able to do immediately after they graduate from a program. They incorporate many areas of inter-related knowledge and skills developed over the duration of the program through a wide range of credential framework and program standards set by the College/University. They represent the big picture, describe broad aspects of behavior, and encompass multiple learning experiences.

PO Nos	PO Statements
PO 1	Graduates will demonstrate knowledge of differential equations, vector calculus, complex variable, matrix theory, probability theory, physics, chemistry and electrical and electronics engineering.
PO 2	Graduates will demonstrate an ability to identify, formulate and solve electrical engineering problems.
PO 3	Graduate will demonstrate an ability to design electrical and electronic circuits and conduct experiments with electrical systems, analyze and interpret data.
PO 4	Graduates will demonstrate an ability to design digital and analog systems and component.
PO 5	Graduates will demonstrate an ability to visualize and work on laboratory and multidisciplinary tasks.
PO 6	Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyze problems.
PO 7	Graduates will demonstrate knowledge of professional and ethical responsibilities.
PO 8	Graduate will be able to communicate effectively in both verbal and written form.
PO 9	Graduate will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.
PO 10	Graduate will develop confidence for self education and ability for life – long learning.
PO 11	Graduate who can participate and succeed in competitive examinations like GATE, GRE, GMAT, TOFEL, IELTS, CAT, PSU's, IES etc.

Direct assessment method:

1. Examination performance (internal and external)
2. Technical paper presentation by students
3. Mini projects and major projects
4. Assignments
5. Job placement data

Indirect assessment method:

1. Student feedback
2. Student exit survey
3. Alumni survey
4. Employers survey
5. Skills in demand survey
6. Internal academic committee

There is a continuous assessment of PEOs and Pos by department for a typical case the following is the summary:

PEO's		PO's	
Goal: 90%	Achieved: 75%	Goal: 90%	Achieved: 79%

As the College is autonomous there is a continuous effort to incorporate the outcome of feedbacks, teaching learning problems by making necessary changes in syllabi and regulations. Once in two years Boards of Studies put effort to redraft or update the curriculum.

35. Highlight the participation of students and faculty in extension activities.

- The Students and faculty participate in extension activities like NSS camp, Blood donation camp, Swachh Bharat
- An non-government organization(NGO) named, “ Helping Hearts” is formed by the students of the EEE to help the needy.
- “Helping Hearts” collected Rs 51000 to help Hudhud cyclone affect area and donated to CM relief fund.

NSS: College has NSS Unit sanctioned by JNT University, Hyderabad. Funds are released by the University periodically. College maintains separate Account for NSS. One of the faculty members is designated as Programme Officer. Yearly accounts are submitted to the University under Utilization.

Usage:

- Students register for NSS Unit of the College as Student Volunteers. About 200 students are on rolls as Volunteers.
- Every year at least two Blood Donation Camps are conducted.
- About 50 staff members and 250 students come forward for blood donation.
- The Blood Donation Camps are organized, sponsored by Red Cross Society, for which the Honorary President is the Governor of Andhra Pradesh or designated person.
- College has a full time Doctor and Nurse. Services of the Doctor are utilized in organizing Health camp at nearby village, ‘Pocharam’, in creating awareness on public health, environment, cleanliness and HIV.
- Clean & Green, Tree Plantation at College campus are common features organized on Saturdays/ Sundays.

NSS Unit of CVR College of Engineering conducted the following activities during the financial year 2010-11, 2011-12, 2012-13, 2013-14 and 2014-15.

LIST OF NSS ACTIVITIES

S. No.	Date	Activity	Description of Activity
1	2.12.2011	Health and Environmental Awareness for Villagers	Inaugural session by village sarpanch. volunteers formed into groups and educated the villagers during the day

2	3.12.2011	Health Checkup for villagers (Diabetic, B.P Tests and general health check up)	Free medical camp conducted in the Grampanchayath building 175 patients consulted the Physician.
3	5.12.2011	Road Alignment of Mangalpalli (V) approach road	Road formation from Mangalpalli(v) to Koheda Gate Approach roads.
4	7.12.2011	Computer Education for Awareness to the students of Mangalpalli (V) Government School	Patelguda, maglapalli zpss High school visit Computer awareness, higher education awareness and quiz programmes were conducted to the 8 th ,9 th and 10 th class students.
6	08.12.2011	Clean and Green Programme	Volunteers formed into groups and conducted clean and green activities
7	09.12.2011	Financial literacy/awareness among the villagers	Survey conducted by the volunteers in the village and educated the villagers
8	07.03.2012	Blood donation camp	Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 283 students and staff voluntarily donated blood
9	06.03.2013	Blood donation camp	Mega Blood Donation Camp conducted in the College Campus on 6 th March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.
10	16.10.2014	Swachh Bharat	A programme of Swachh Bharath conducted in the college campus on 16 th October 2014 in the afternoon session between 2.30 pm to 5.00 pm in the college campus. All the NSS volunteers participated in the Clean & Green Program.
11	24.11.2015	Blood donation camp	A Blood donation camp on 24-11-2015 in the college campus with the association of Red Cross society, Vidyanagar.. Huge response received for this camp and 476 students and staff voluntarily donated blood.
12	09.10.2015	Health camp	A Free Health camp conducted at nearby village 'Pocharam', on 9 th October 2015. Camp inaugurated by village sarpanch and 110 villagers received treatment along with free medicines. In the Camp NSS volunteers created awareness on public health, environment, cleanliness and HIV to the villagers.

13	17.11.2015	Clean and green program	One day camp at Government High School in the Pocharam Village on 17 th November 2015 for Clean and Green Program in the School Campus. During the Camp, NSS Volunteers undertaken activities like School campus cleaning, Quiz programs for students and Health awareness Talks.

For conducting Mega Blood Donation camps in the college campus regularly and motivating the students and staff to participate in the blood donation voluntarily, Indian Red Cross society AP state Branch, Hyderabad awarded CVR College of Engineering with a Memento and a Cup on World Blood Donors day i.e., 14th June 2014 in the Educational Institutional category. Dr. A. Rajkumar, principal, CVR College of Engineering received the award from the honorable Governor of Telangana and AP on 14th January 2014 at Darbar Hall, Raj Bhavan, Hyderabad. In this regard Honorable Governor E.L Narsimhan appreciated college efforts related to NSS and Social activities.



The technical association of EEE department, ELECTROCRUISE organizes various social activities in addition to technical activities. Some of the activities are follows:

Swachh Bharat Activities by EEE Students:

- Students of EEE visited Z.P.H. School and Primary school in Kongara Kalan village and conducted Swachh Bharat activity on 10.02.2015
- **A.R.I.S.E. (A Revolution In Social Empowerment)** teaching campaign in kongarakalan secondary and primary schools by III year EEE students on 13th February, 2015
- Students of III year EEE motivated SSC students of ZPH school, kongarakalan, Ibrahimpatnam by doing counseling about facing state board exams on 23rd march 2015. Also, distributed water bottles and hall ticket covers to them,
- “Energy Audit” of CVRCE is conducted by III year EEE students during Aug, 2015
- Students of II year EEE visited Z. P. H. School, Eliminedu, Ibrahimpatnam on 22.01.2016 for Swachh Bharat activity and enlighten the students about higher education



Students of EEE Interacting with X class Students



Students of EEE Taking classes to X class Students



Teaching campaign on communication skills



Teaching campaign to primary children



Anna daata Sukheebhava.....Students of EEE serving the food to young citizens.....good work



Students of EEE distributing water bottles to X class students at school

36. Give details of “beyond syllabus scholarly activities” of the department.

The Department encourages various scholarly activities beyond syllabus to make the students aware of the latest trends in the profession and practical experience in the field at regular intervals using the following methods:

Guest lectures by eminent professors and experts from industries to update students on latest topics.

- Arrange Industrial visits regularly.
- Motivates for Internships in IITs, NITs and Industries.
- Supports the participation in Conferences and Workshops.
- Encouraging students to perform hardware projects
- Mini projects which is compulsory

Additional topics incorporated beyond syllabus by identifying deficiencies:**B.Tech II-Ist Semester**

Sl. No.	Title	No of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial/ Practical		
1.	Electro Magnetic Fields	4	1	PEO - II PO - 2	Uniform Plane waves
2.	Electrical Machines-I	4	1	PEO - I, II PO- 2,11	Simple Mathematical Modelling Of DC Machines
3	Fluid Mechanics & Hydraulic Machinery Lab	-	3	PEO - 1,4 PO - 5	Bernouli's Theorem

B.Tech II-2nd Semester

Sl. No.	Title	No of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial/ Practical		
1.	Power Systems -I	4	1	PEO - I, II ,III PO – 11	Mechanical Design Aspects of Transmission & Distribution Lines
2.	Electrical Machines-II	4	1	PEO - I, II PO – 2,11	Static v/f control of induction motor
3.	Electrical Machines Lab-I		3	PEO - III PO - 5	Brake Test on DC Series Motor

B.Tech III-Ist Semester

Sl. No.	Title	No of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial/Practical		
1.	Electrical Machines-III	4	1	PEO - I, II PO – 2,11	Special Machines like SRM, PMSM, BLDC etc.
2.	Power Electronics	4	1	PEO - I, II, III PO – 2,11	High frequency Switching devices.
3.	Electrical Machines Lab-II		3	PEO - III PO - 5	1. Load test on Single Phase transformer 2. Separation of core losses of a Single Phase transformer

B.Tech III-2nd Semester

Sl. No.	Title	No of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1.	Switchgear and Protection	4	1	PEO - I,II,III PO – 11	Protection using Microprocessors.
2.	Instrumentation	4	1	PEO - I,II,III PO – 2,11	Measurement of R, C, L using bridge circuits. RTD & LVDT characteristics, Various transducers
3.	Power Electronics & Simulation Lab	-	3	PEO - III PO – 11	Demo simulation of phase controlled rectifiers and sinusoidal PWM inverter

B.Tech IV-Ist Semester

Sl. No.	Title	No of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1.	Power Semiconductor Drives	4	1	PEO - I,II,III PO -2	Basic concepts of Multilevel Inverters

2.	Electrical Distribution Systems	4	1	PEO - I,II,III PO –11	Distribution system Reliability
3.	Electrical Measurements Lab	-	3	PEO - III PO – 11	1. Dielectric oil testing and measurement of iron losses 2. LVDT and Capacitance pick-up characteristics and calibration

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

- The department got NBA accreditation in 2007 for three years and re-accredited in 2013 for two years.
- The college got autonomous status from JNTUH for three years from 2011-12 to 2013-14
- The college got UGC autonomous for a period of six year from 2014-15 to 2019-2020
- NBA committee made a visit during Jan 08-10, 2016 for the current academic year for 3rd time accreditation and result is awaited

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department:

Adequate lab facilities

- Qualified and experienced faculty
- R&D activities
- Special training programmes for placements
- Counselling and mentoring the weak students
- Regular monitoring on student attendance and sending SMS to the Parents everyday through ECAP. Sending letters to the parents of students having less attendance

Weaknesses

- Improvement is needed in the performance in competitive examinations
- Lack of self study by students
- Imbalance between Curricular and Extracurricular activities in the time scale
- Less Industrial collaboration

Opportunities

- Technology development and Innovation due to globalization
- Growing student demand in software/core industries
- R&D activity for faculty members & hence exposed to students
- Challenges Availability of adequate number of qualified faculty
- Downward trend of quality of intake
- Fast changing technologies
- Academic ambience
- To comply with policies of Government and Academic bodies

39. Future plans of the department

- To improve the pass percentage and placements through special training programs.
- To remove the obsolescence and modernize existing labs.
- To start PG programme in power electronics & drives specialization and carryout quality Research Projects.
- To establish a center of excellence in power & energy systems
- To conduct National and International Conferences and workshops to create a platform for interaction among academicians and Industry Experts.
- Centre for Non-conventional energy studies

E.5. ELECTRONICS & INSTRUMENTATION ENGINEERING

1. Name of the Department & its year of establishment

Name of the Department: Electronics and Instrumentation Engineering. It was established in 2004

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

U.G-B.Tech is offered with intake of 60 students.

3. Interdisciplinary courses and departments involved

Course Code	Course	Dept. Involved	Year & Semester
12EG101CV	English	Humanities and science	I-Year,Sem-1
12MT101CV	Mathematics-I	Humanities and science	I-Year,Sem-1
12CH101CV	Engineering Chemistry	Humanities and science	I-Year,Sem-1
12CS101CV	Problem solving through C'	Computer science Engineering	I-Year,Sem-1
12ME101CV	Engineering Drawing-I	Mechanical Engineering	I-Year,Sem-1
12CS131CV	Computer Programming Lab	Computer science Engineering	I-Year,Sem-1
12CH131CV	Engineering Chemistry Lab	Humanities and science	I-Year,Sem-1
12EG131CV	English Language and Communication Skills Lab-I	Humanities and science	I-Year,Sem-1
12ME131CV	Engineering Workshop	Mechanical Engineering	I-Year,Sem-1
12MT151CV	Mathematics-II	Humanities and science	I-Year,Sem-2
12CS151CV	Data Structures through 'C'	Computer science Engineering	I-Year,Sem-2
12ME151CV	Engineering Drawing-II	Mechanical Engineering	I-Year,Sem-2
12CH151CV/ PH101CV	Engineering Physics	Humanities and science	I-Year,Sem-2
12EE151CV	Electrical Circuits	Electrical and Electronics Engineering	I-Year,Sem-2
12CS181CV	Data Structure through 'C' Lab	Computer s Science Engineering	I-Year,Sem-2
12EG181CV	English Language and Communication Skills Lab-II	Humanities and science	I-Year,Sem-2
12IT181CV/I T131CV	I.T. Workshop	Computer Science Engineering	I-Year,Sem-2
12PH181CV/ PH131CV	Engineering Physics Lab	Humanities and science	I-Year,Sem-2

12EC40BCV	Nanotechnology(Interdisciplinary Elective)	Electronics And Communication Engineering	IV-Year,Sem-1
12MT202CV	Mathematics - III	Humanities and science	II-Year,Sem-1
12EE2014CV	Principles of Electrical Engineering	Electrical and electronics engineering	II-Year,Sem-1
12EC201CV	Electronics Devices and Circuits	Electronics And Communication Engineering	II-Year,Sem-1
12EC202CV	Signals and Systems	Electronics And Communication Engineering	II-Year,Sem-1
12EC206CV	Logic and Switching Theory	Electronics And Communication Engineering	II-Year,Sem-1
12EC231CV	Electronics Devices and Circuits Lab.	Electronics And Communication Engineering	II-Year,Sem-1
12EE232CV	Electrical Technology Lab.	Electrical and electronics engineering	II-Year,Sem-1
12EG231CV	Verbal Ability Lab.	Humanities and science	II-Year,Sem-1
12ES201CV	Environmental Studies	Humanities and science	II-Year,Sem-2
12EC257CV	Principles of Communications	Electronics And Communication Engineering	II-Year,Sem-2
12EC251CV	Electronic Circuits Analysis	Electronics And Communication Engineering	II-Year,Sem-2
12EE252CV	Control Systems	Electronics And Communication Engineering	II-Year,Sem-2
12EC281CV	Electronic Circuits Analysis Lab.	Electronics And Communication Engineering	II-Year,Sem-2
12MG301CV	Managerial Economics and Financial Analysis	Humanities and science	III-Year,Sem-1
12EC307CV	Pulse and Digital Circuits	Electronics And Communication Engineering	III-Year,Sem-1
12EC333CV	Pulse and Digital Circuits Lab.	Electronics And Communication Engineering	III-Year,Sem-1
12MT331CV	Data Interpretation Lab.	Humanity & Sciences	III-Yr-Sem-1

12EC353CV	Microprocessors & Microcontrollers	Electronics And Communication Engineering	III-Year,Sem-2
12EC354CV	Digital Signal Processing	Electronics And Communication Engineering	III-Year,Sem-2
12CS35HCV	Computer Organization (Elective-1)	Computer science Engineering	III-Year,Sem-2
12MT381CV	Quantitative Ability Lab.	Humanities and science	III-Year,Sem-2
12EC381/333 CV	Microprocessors & Microcontrollers Lab.	Electronics And Communication Engineering	III-Year,Sem-2
12EG381CV	Advanced English Communication Skills Lab.	Humanities and science	III-Year,Sem-2
12EC401CV	VLSI Design	Electronics And Communication Engineering	IV-Year,Sem-1
12EC40GCV	Computer Networks (Elective-2)	Electronics And Communication Engineering	IV-Year,Sem-1
12EC40DCV	Embedded Systems Design (Elective-2)	Electronics And Communication Engineering	IV-Year,Sem-1
12EC435CV	Electronic Computer Aided Design Lab	Electronics And Communication Engineering	IV-Year,Sem-1
12MG451CV	Management Science	Humanities and science	IV-Year,Sem-2
12CS459CV	Artificial Neural Networks	Computer science Engineering	IV-Year,Sem-2
12CE/ME401 CV	Elements of Civil & Mechanical Engineering (Interdisciplinary Elective)	CIVIL,ME	IV-Year,Sem-1
12CS40ACV	Object Oriented Programming through Java (Interdisciplinary Elective)	Computer science Engineering	IV-Year,Sem-1
12MG40AC V	Entrepreneurship (Interdisciplinary Elective)	Humanities and science	IV-Year,Sem-1

4. Annual/ semester/choice based credit system :

All the Four years are Semester Based Credit System

Choice Based Credit System (CBCS) has been introduced in the academic year 2015-16 after the approval of Board of studies and Academic Council of the college.

B.Tech I-Yr and M.Tech I-Yr admitted in 2015-16 will study under CBCS. Senior classes will continue in semester pattern only.

5. Participation of the department in the courses offered by other departments

Course Code	Course	Total Number of contact				Credits	Branch and Class
		L	T	P#	T-Hours		
12EI402CV	Bio-medical Instrumentation	3	1		4	3	IV EEE & ECE
12EI403CV	Instrumentation	3	1		4	3	IV EEE
12EI401CV	Measurement & Control Systems	4	-		4	4	IV ME
12EI431CV	Measurement & Control Systems Lab.	-	-	3	3	2	IV ME
12EI405CV	Robotics & Automation	4	1		5	4	IV ECE
12EI408/453/356CV	Reliability Engineering	3	1		34	33	IV ECE

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Designation	2014-15		2013-14		2012-13		2011-12	
Professor	1	2	1	2	1	2	1	2
Associate Professors	3	3	3	3	3	3	3	3
Asst. Professors	8	7	8	7	8	7	8	7

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.) List of Faculty Members: Exclusively for the Programme / Shared with other programme Academic Year 2015-16

Name	Qualification	Designation	Specialization	No. of Years of Experience	Ph.D. guided
1.Dr.M. S. Bhat	Ph.D. from O.U	Professor & Head	Electrical Communication Engineering	Industrial Experience – 21 Yr. Teaching & Research Experience – 23 Yrs., Total – 44 Years.	18
2.Professor.S.Narayana	M.Tech, JNTU	Professor	Instrumentation	Scientific Research & Industrial Experience– 37 Yrs. Teaching – 7 Yrs. Total – 44 Yrs.	-
3.Ms.S.Harivardhagini	M.E, (Ph.D.) Satyabama Deemed University,	Assoc. Prof	Control Systems	11	-
4.Mr.B.Satish	M.Tech, (Ph.D.) JNTUH,	Associate Professor	Digital systems	11	-

5.Mr.O.Venkata Krishna	M.Tech, JNTUH,	Associate Professor	VLSI	7	-
6.Ms.R.Prameela Devi	M.Tech, OU,	Assistant Professor	Digital systems	5	-
7.Ms.V.Sreelatha Reddy	M.E, Satyabama Deemed University,	Assistant Professor	Electronics & Control Systems	8	-
8.Mr.G.Venkateswarlu	M.Tech, JNTUH	Assistant Professor	VLSI	3	-
9.Mr.P.Choudesh Varma	M.Tech, Bharath Deemed University, Chennai,	Assistant Professor	Instrumentation & Control Systems	7	-
10.MsY.Divya	M.Tech, JNTUH	Assistant Professor	Embedded systems	2	-
11. Mr. T. Janardhan	M.Tech, JNTUK	Assistant Professor	Instrumentation and control systems	6	-
12. Mr. N. Rajasekhar	M.Tech, SVU	Assistant Professor	Instrumentation and control systems	1	-
13. Ms. Sri Sasikala	M.Tech, JNTUH	Assistant Professor	Embedded systems	1	-

Academic Year 2014-15

Name	Qualification	Designation	Specialization	No. of Years of Experience	Ph.D. guided
1.Dr.M. S. Bhat	Ph.D. from O.U	Professor & Head	Electrical Communication Engineering	Industrial Experience – 21 Yr. Teaching & Research experience – 23 Yrs., Total – 44 Years.	18
2.Professor.S.Narayana	M.Tech, JNTU	Professor	Instrumentation	Scientific Research & Industrial Experience –37 Yrs. Teaching – 7 Yrs. Total – 44 Yrs.	-
3.Ms.S.Harivardhagini	M.E, (Ph.D.) Satyabama Deemed University,	Assoc. Prof	Control Systems	11	-

4.Mr.B.Satish	M.Tech, (Ph.D.) JNTUH,	Associate Professor	Digital systems	11	-
5.Mr.O.Venkata Krishna	M.Tech, JNTUH,	Associate Professor	VLSI	7	-
6.Ms.R.Prameela Devi	M.Tech, OU,	Assistant Professor	Digital systems	5	-
7.Ms.A.Usha Sri	M.Tech, OU,	Assistant Professor	Bio Medical Instrumentation	4	-
8.Ms.V.Sreelatha Reddy	M.E, Satyabama Deemed University,	Assistant Professor	Electronics & Control Systems	8	-
9.Mr.G.Venkateswarlu	M.Tech, JNTUH	Assistant Professor	VLSI	3	-
10.Mr.P.Choudesh Varma	M.Tech, Bharath Deemed University, Chennai, M.Tech, JNTUH,	Assistant Professor	Instrumentation & Control Systems	7	-
11.MsY.Divya	M.Tech, JNTUH	Assistant Professor	Embedded systems	2	-
12. Mr. P. Venkata Gopi Kumar	M.Tech, JNTUA	Assistant Professor	Embedded systems	6	-

8. Percentage of classes taken by temporary faculty – programme-wise information :

Department has no temporary faculty, all are regular faculty.

9. Programme-wise Student Teacher Ratio

Student-Teacher Ratio: 15:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Tech and administrative staff	2014-15		2013-14		2012-13		2011-12	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
Administrative Staff	1	1	1	1	1	1	1	1
Technical staff	3	3	3	3	3	3	3	3

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

S. No.	Number of Faculty	Name of program	funding agencies	grants received	Year
1	5	FDP On Recent Trends In Automation And Control	AICTE	4.5 Lakhs	2012-13
2	2	Home security systems	CENTRONIX	Rs.50,000 /-	2010-11

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

: NIL

13. Research facility / centre with

state recognition : NIL

national recognition : NIL

international recognition : NIL

14. Publications:

- * Number of papers published in peer reviewed journals (national / international)
- * Monographs
- * Chapter(s) in Books
- * Editing Books
- * Books with ISBN numbers with details of publishers
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- * Citation Index – range / average
- * SNIP
- * SJR
- * Impact factor – range / average
- * h-index

PAPER PUBLICATIONS OF THE FACULTY (Impact Factors)

1. International Journal of Computer Applications(IJCA) : 2.52
2. International Journal Of Research in Engineering and Technology (IJRET): 2.375
3. International Journal of Science and Engineering Applications : 0.256
4. Journal of Health Management : 1.642
5. ASCI Journal of Management:
6. International Journal of Computer Technology & Applications (IJCTA) : 2.804
7. International Journal of Research in Electronics and Communication Engineering(IJRECE) : 2.677
8. International Journal on Computer Science and Engineering (IJCSE) : 1.251
9. International Journal of Engineering Science and Research (IJESR) : 2.08
10. International Journal of Advances in Electronics Engineering : 0.345

List of paper publications of the faculty

Name of the faculty member	Designation	Number of research publications in journals and conferences since joining					
		2015-16 (till now)	2014-15	2013-14	2012-13	2011-12	2010-11
1.Dr.M. S. Bhat	Professor & Head	4	15	14	12	15	15
2. Professor. S. Narayana	Professor		6	4	1	0	0
3.Ms.S.Harivardhagini	Assoc. Prof	5	9	8	6	4	2
4.N.Akshay	Associate Professor		8	6	5	4	4
5.Mr.B.Satish	Associate Professor		1	1	1	1	1
6.Mr.O.Venkata Krishna	Associate Professor	2	6	6	6	6	6
7. Mr. D. Satish Kumar	Assistant Professor		1	1	Nil	Nil	Nil
8.Ms.V.Sreelatha Reddy	Assistant Professor		1	1	1	1	1
9.Mr.G.Venkateswarlu	Assistant Professor		4	2	0	0	0
10.Mr.P.Choudesh Varma	Assistant Professor		01	01	Nil	Nil	Nil
11. Mr. P. Venkata Gopi Kumar	Assistant Professor		1	1	Nil	Nil	Nil

15. Details of patents and income generated : NIL

16. Areas of consultancy and income generated : NIL

17. Faculty recharging strategies

The Department organizes the following activities under recharging strategies:

- i) New faculty- two week orientation and communication skills programme
 - ii) Guest Lectures for the benefit of staff and students.
 - iii) Department organizes workshops for our staff and other colleges staff, students and industry people.
 - iv) Sponsoring of our teachers to other college programmes.
 - v) Incentives for publishing technical papers
 - vi) Incentives for text book writing.
 - vii) Granting eight months leave with pay twice for doing PhD
- The Department has been active with above strategies.

**STAFF PARTICIPATION IN VARIOUS CONTINUING EDUCATIONS
WORKSHOPS/CONFERENCES ATTENDED BY FACULTY:**

Sl. No.	Name of the Faculty	Designation	No. of Workshops, Conferences attended by Faculty			
			2014 – 15	2013-14	2012-13	2011-12
1	Dr. M. S. Bhat	Professor & Head	1	1	1	2
2	Professor. S.Narayana	Professor	1	2	2	3
3	Ms. S. Harivardhagini	Associate Professor			1	2
4	N. Akshay	AssociateProfessor			2	1
5	Mr. B. Satish	Associate Professor				1
6	Mr. O. Venkata Krishna	Associate Professor		1	2	1
7	Mr. D. Satish Kumar	Assistant Professor		1		1
8	Mr. T. Santhosh Kumar	Assistant Professor				2
9	Ms. Joythirmai Joshi	Assistant Professor				2
10	Ms. R. Prameela Devi	Assistant Professor				2
11	Ms. A. Usha Sri	Assistant Professor		3	1	1
12	Ms. Sampoorna lakshi	Assistant Professor			1	1
13	Ms.V.Sreelatha Reddy	Assistant Professor	1	3		
14	Mr.G.Venkateswarlu	Assistant Professor	3	1		
15	Mr.P.Choudesh Varma	Assistant Professor	2	1		
16	Ms. Y. Divya Reddy	Assistant Professor		1		
17	Mr. P.Venkata Gopi Kumar	Assistant Professor		1		

18. Student projects

- percentage of students who have done in-house projects including inter-departmental 80%
- percentage of students doing projects in collaboration with industries / institutes 2% students are permitted to do projects in important Government Scientific Labs like DLRL, RCI under supervision.

19. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students

Faculty

S. N o.	Name of the Faculty	Awards / recognitions received	Year of Recd.
1	Prof. S. Narayana	Distinguished fellow award from IETE. Distinguished fellow is the highest class of membership awarded. The number of Distinguished fellow awardees presently alive is less than 50 in India. He was President of IETE, India during two consecutive terms i.e. 2006- 2007& 2007 – 2008. Was Chairman of IETE, Hyderabad Centre during two consecutive terms i.e. 1993-1994 & 1994 – 1995.	2013
		Endowment lecture in honor of Professor. S. Narayana at IETE Hyderabad center since 2009 continuously for six years i.e. up to 2014 has been held	For the past six years i.e, 2009, 2010, 2011, 2012, 2013, 2014 lectures in honor of Prof. S. Narayana were delivered and well attended by IETE professionals, other scientists and academicians.
2	Dr. M. S. Bhat	Appointed as a member of scientific advisory committee of National Institute Of Mentally Handicapped (Govt. of India), Hyderabad. 2. Successfully Guided 18 Research Scholars resulting in the award of Ph. D. from JNTU, O.U. 3. Successfully Guided 10 Research Scholars resulting in the award of M. Phil. 4. Two Research Scholars under the guidance of Dr. M.S. Bhat have submitted Ph. D. thesis to JNTUH and awaiting evaluation. 5. Had secured and completed successfully AICTE projects such as MODROB, TAPTEC & RESEARCH and also from UGC.	May 2014
		1. He was invited to be an external member of committee of evaluators in the mandatory Research Review Meeting of Ph.D. scholars held at JNTU-H on 04-07-2014. 2. He was invited to be an external member of committee of evaluators in the mandatory Research Review Meeting of Ph.D. scholars held at JNTU-H on 19-12-2014. 3. Has been nominated as member of quality Assurance Committee of Online Programme of Dr. B. R. Ambedkar Open University, Hyderabad with effect from December, 2014.	May 2015

3	Ms. S. Harivardhagini	Received IEEE best paper award for the paper titled “PID, SMS & DSMC Technique of Prototypes Split Range Plant using LabVIEW” at Penang, Malaysia on 28 th November, 2015	November, 2015
4	Mr. G. Venkateshwarlu	In the National Level automation Computation from 11 th to 13 th Febuary 2016 at Pune organized by Mitsubishi Electric Pvt Ltd. 24 shortlisted college teams participated. The team from Department of EIE-CVR College of Engineering with Mr. G.Venkateshwarlu Asst.Professor as the Project Guide was adjudged the Winner of Bronze Trophy with a Cash Prize of Rs. 50,000/- and Medals, Certificates to all the Four participating Students.	

Awards / recognitions received at the national and international level by Students

S. No.	Student Name	Roll NO.	Awards / recognitions	Venue	Date
1	Jayashree Sahu	11B81A1018	Won the 1 st prize C.Sitapathi Rao Endowment award	Instrumentation Society of India	10 th July,2015
2	Yelleswarapu Sriya	11B81A1046	Won the 2nd prize C.Sitapathi Rao Endowment award	Instrumentation Society of India	10 th July,2015

S. No.	Student Name	Roll NO.	Awards / recognitions	Venue	Date
1	P.Sai Lakshmi Srivani	09B81A1035	Secured GOLD MEDEL ,first rank in entire state IN EIE Department	JNTUH	Sep,2014
2	T. Sree Charan Reddy	12B81A1049	Global Entrepreneurship summit	IIT, Kharagpur	Jan 10 th & 12 th , 2014

20. Seminars/ Conferences/Workshops organized and the source of funding (National /

International) with details of outstanding participants, if any.

Academic Year (2014-2015)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	IEEE	Robo Gravity	Engineers Day ‘2K14
2	IEEE	Circuit design & PCB publication	Insignia ‘2K15

Academic Year (2013-2014)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	ISTE	Android Mobile Controlled Robot	21 st and 22 nd September 2013
2	ISTE	Robotics Workshop	27 th September 2013

Academic Year (2012-2013)

S. No	EVENT	DATE	ORGANISED BY	FUNDING
1.	Recent Trends in Automation and control	11-11-2013 to 22-11-2013	Department of EIE,CVRCE	AICTE

Academic Year (2012 -13)

S. No.	SOCIETY / CHAPTER	EVENT	DATE	Source of Funding
1	ISTE	Photography on “Nature at its best”	Sep 2012	CVR College of Engg.
2	ISTE	Workshop on “Aurdinobotics”	28/09-29/09/12	CVR College of Engg
3	IEEE	Workshop on “Embedded linux device drivers”	31 st mar 2013	CVR College of Engg
4	IEEE	Workshop on “Linux System programming”	23 rd , 24 th , 30 th march & 6 th Aprl 2013	CVR College of Engg
5	IEEE	Workshop on “ASIC Physical Design using CADENCE TOOLS”	Feb-March 2013	CVR College of Engg

Academic Year (2011-2012)

S. No	EVENT	DATE	ORGANISED BY
1.	Workshop on Graphical system Design using LABVIEW	4-11-2011&5-11-2011	Department of EIE,CVRCOE
2.	Guest Lecture On INDUSTRIAL AUTOMATION &CARRER OPTIONS	13-9-2011	Department of EIE,CVRCOE
3.	Guest Lecture on Maintenance of Studio Equipments	3-11-2011	Department of EIE,CVRCOE

Academic Year (2011-12)

S. No.	SOCIETY / CHAPTER	EVENT	DATE	Source of Funding
1	IETE	ASIC Design Verification	13 th Nov 2011	CVR College of Engg.
2	IUCEE	Innovation Club	23 rd to 30 th March 2012	CVR College of Engg.

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
B.Tech (EIE)	2014-15	Through EAMCET counseling	34	26	88.23	80.76
B.Tech (EIE)	2013-14	Through EAMCET counseling	45	15	70.2	95.4
B.Tech (EIE)	2012-13	Through EAMCET counseling	43	14	92.6	100
B.Tech (EIE)	2011-12	Through EAMCET counseling	35	25	75.6	94.7
B.Tech (EIE)	2010-11	Through	38	22	100	100

Name of the Course (refer question no. 2)	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
		EAMCET counseling				

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Tech(2014-15)	-----	100%	-----	-----
B.Tech(2013-14)	-----	100%	-----	-----
B.Tech(2012-13)	-----	100%	-----	-----
B.Tech(2011-12)	-----	100%	-----	-----

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Student progression	No. of students cleared competitive examinations				
	2014-15	2013-14	2012-13	2011-12	2010-11
GATE	1	5	6	1	1
GRE	11	9	14	6	14
CAT	---	1	2	---	2

24. Student progression

Student progression	Percentage against enrolled				
	2014-15	2013-14	2012-13	2011-12	2010-11
UG to PG	20%	30%	40%	12%	30%
PG to M.Phil.	-----	-----	-----	-----	-----
PG to Ph.D.	-----	-----	-----	-----	-----
Ph.D. to Post-Doctoral	-----	-----	-----	-----	-----
Employed • Campus selection • Other than campus recruitment	36%	46%	29%	54%	50%
Entrepreneurs	-----	-----	-----	-----	-----

25. Diversity of staff

Percentage of faculty who are graduates	2014-15	2013-14	2012-13	2011-12	2010-11
of the same parent university	50%	50%	66.6%	75%	66.6%
from other universities within the State	25%	25%	16.6%	8.3%	16.6%
from other universities from other States	25%	25%	16.6%	16.6%	16.6%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

The following faculty has registered for Ph.D.

1. Ms. S. Harivardhagini, Assoc. Professor has registered for Ph.D. in 2009 and she passed pre- Ph.D in 2010.
 - Availed study leave twice with salary
 - First from November 15th 2012 to June 17th 2013.
 - Second from November, 25th, 2013 to June, 30th, 2014.

The following papers were published by her recently:-

- i) Internet based Variable Structure Control of a single level tank using LabVIEW, International Journal of Recent Trends in Engineering and Technology, July 2014.
- ii) Variable Structure Control of a level tank using LabVIEW, presented a International Conference on Advances in Recent Technology in Electrical and Electronics, September 2013 (20 to 21).

Presently in the process of finalizing Ph.D. thesis and will be submitting shortly.

2. Mr. B. Satish, Assoc. Prof. has registered for Ph.D. at JNTUH and completed the required course work successfully.

27. Present details about infrastructural facilities

a) Central Library

CVR has a unique facility of having an independent three storied Library building with a built-up area of 1800 sqm. Ground floor is meant for books issue and reading room facility. First floor accommodates Reference section and Digital Library. Second floor is exclusively allocated for Research Cubicles. About 35 faculty members have registered for Ph.D. with OU, JNTU, University of Hyderabad etc. These Research Cubicles will help the faculty member to have concentrated study. Library has qualified staff.

In the Central library EIE section has

Volumes - 1936

Titles - 471

b) Department Library

Department library of EIE has seating facility for the reference. The department library measures 100 sq. m. Department Seminar Hall is available.

Volumes - 317

Titles - 239

c) Internet facilities for staff and students:

Internet facility is available for all staff members. Students can access from main library

Name of the Internet provider	: Apollo	Vainavi	BSNL
Available bandwidth	:75 Mbps	35 Mbps	10 Mbps

Access speed :2 Mbps (max) for individual

- Internet is Available in exclusive lab
- Internet is Available in most computing labs
- Internet is Available in faculty rooms
- Institute's own e-mail facility to faculty/students is Available
- Security/privacy to e-mail/Internet users: is Available

d) Total number of class rooms:

Total class rooms are 4 of area 72 sq.m. each. All class rooms have OHP, LCD projector, well ventilated.

e) Class rooms with ICT facility:

Each class has over head projector and LCD projector is available in class room & department.

f) Students' laboratories: The following are the exclusive laboratories available for department of EIE.

1. Transducers & Instrumentation Lab
2. Industrial Instrumentation Lab
3. Process Control Instrumentation Lab
4. Analytical & Virtual Instrumentation Lab
5. Instrumentation & Control System Lab

g) Research laboratories: NIL

28. Number of students of the department getting financial assistance from the State.

Course	Course Year	No. of students availed Financial Assistance from State Govt.				
		2014-15 (availed)	2013-14 (availed)	2012-13 (availed)	2011-12 (availed)	2010-11 (availed)
B.Tech (EIE)	I Year	21	20	20	21	17
	II Year	17	19	18	17	25
	III Year	19	17	18	25	18
	IV Year	16	17	27	18	23

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Based on the number of successful applicants qualifying common entrance test and available seats in the state for the branch, student's gap analysis was made and action was initiated before starting the branch in 2004.

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Members of staff are represented in the respective Board of Studies. These members in turn seek views of the teachers concerned, in framing syllabus. During the Board of Studies meeting the curriculum revision and rationale for it, is discussed thoroughly in a thread-bare fashion and the detailed syllabus is formulated keeping in view of the industrial needs.

Staff on Teaching Learning Evaluation: With the Autonomous status available to the College, teachers set the papers partly and also the end semester papers. There is direct scope to review the extent of learning and consequently steps for improving can be taken up. Teachers have direct interaction with students by conducting

internal tests in lab and theory. Further assignments, seminars, mini-projects by students also give scope for teaching-learning improvements.

- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Student's feedback on the class room teaching by the faculty is taken twice every semester and the data is analyzed by Dean Academics and necessary counseling is provided to the teacher concerned.

- c. Alumni and employers on the programmes and what is the response of the department to the same?

Every alumni of the department is encouraged to visit the department and share their experience with students and staff. The placement cell actively solicits feedback from the employer's and old students of the college and pass on significant information to the department concerned for follow-up action.

31. List the distinguished alumni of the department (maximum 10)

S. No.	Name of the Student	Year of passed	Position
1	B. Murali Chandra	2011	Research academician in IISc, Bangalore
2	Bharadwaj	2011	Amozan as a risk Investigatir
3	Vamshi Krishna Reddy	2011	Systems Engineering with Infosys
4	Uday	2011	Systems Engineering with Infosys
5	Sowjanya	2011	Engineer with HCL
6	Satyanarayana	2011	Engineer with Jindal Power
7	Siddharth Goutham	2011	Systems Engineering with Infosys
8	Santosh	2011	Engineer with L & T Integrated Engg. Services
9	Prathyusha	2011	Working with Amazon as a specialist
10	Pooja	2011	Working with Oracle Financial Services
11	Samhitha	2014	Assoc. Soft Engineer in Accenture Services
12	M.B. Muralidhar	2014	Project Asst. Optics and Microfluids Instrumentation Lab, Indian Institute of Science, Bangalore

13	Vamshi Krishna	2014	Project Asst. Indian Institute of Science, Bangalore
14	Ms. Sruti Pappala	2015	Soft Engineer- IBM
15	Jayasree sahu	2015	Assistant System Engineer -TCS
16	Shrujana K	2015	Software Engineer. -Capgemini

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

List of topics of programmes:

(2011-12)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	IETE	ASIC Design Verification	13 th Nov 2011
2	IUCEE	Innovation Club	23 rd to 30 th March 2012

Publications of students in Seminars/Conferences held at other Institutions:

2011-12

S. No.	Student Name	Roll NO.	Paper Title	Name of the National/International/journal/conference	Venue	Date
1	M.B. Muralidhar	10B81A1007	Artificial Vision Using LDR	UDAAN	SREENIDHI	2012
2	Ch. Sai Pavan Raju	10B81A1033	Artificial Vision Using LDR	UDAAN	SREENIDHI	2012
3	M. Kranthi	10B81A1021	Sensors and Transducers	UDAAN	SREENIDHI	2012
4	S. Santosh	10B81A1039	Sensors and Transducers	UDAAN	SREENIDHI	2012
5	N. Bhasker	10B81A1009	Robotics	CONVERGEN CE2K12	VNRVJIT	2012
6	D. Dinesh	10B81A1012	Robotics	CONVERGEN CE2K12	VNRVJIT	2012
7	M. Pradeep	10B81A1026	Entrepreneurship	VIGNITE	Vignan	2012
8	T.V. Samhitha	10B81A1036	Sensors Detecting Motions	AAKRUTHI	Osmania University	2012
9	T.Sivani	10B81A1048	Sensors Detecting Motions	AAKRUTHI	Osmania University	2012
10	N.Vikram	10B81A1055	Nano Solar Technology	Paper Presentation	Institute of Engineers	2012
11	E. Shashidhar	10B81A1044	Virtual Instrumentation	CONVERGEN CE2K12	VNRVJIT	2012

12	S.V.K Sindhuja	10B81A1046	Artificial Vision Using LDR	Paper Presentation	TKR College of Engg.	2012
13	Anusha.A	10B81A1005	Artificial Vision Using LDR	Paper Presentation	TKR College of Engg.	2012
14	D. Abhishek	10B81A1002	Energy Conservation	Paper Presentation	IEEE Conference	2012
15	N. Saran	10B81A1041	Energy Conservation	Paper Presentation	IEEE Conference	2012
16	B. Murali Chandra	10B81A1023	Energy Conservation	Paper Presentation	IEEE Conference	2012
17	J. Vindhya Vasini	10B81A1056	Nano Technology- Logical Proposal of RBC	CONVERGEN CE2K12	VNRVJIT	2012
18	Mounika	10B81A1022	Fibre Optic Sensors	CONVERGEN CE2K12	VNRVJIT	2012
19	K. Vennela	10B81A1054	Robotic Sensors	CONVERGEN CE2K12	VNRVJIT	2012
20	P. Akshay Kumar	09B81A1004	Biometrics in Automobile Security	CONVERGEN CE2K12	VNRVJIT	2012
21	M.Sirisha	09B81A1041	Vision Based Gesture Recognition	CONVERGEN CE2K12	VNRVJIT	2012
22	M.Sirisha	09B81A1041	Poster presentation	UDAAN-12	SREENIDHI	2012
23	A. Pradeep Kumar	09B81A1024	Bluetooth	CONVERGEN CE2K12	VNRVJIT	2012
24	Karun Bojja	09B81A1056	Paper Presentation	UDAAN-12	SREENIDHI	2012
25	Kalyan Bojja	09B81A1033	Paper Presentation	CONVERGEN CE2K12	VNRVJIT	2012
26	Karun Bojja	09B81A1056	Paper Presentation	CONVERGEN CE2K12	VNRVJIT	2012
27	Kalyan Bojja	09B81A1033	Paper Presentation	UDAAN-12	SREENIDHI	2012

(2012-2013)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	ISTE	Photography on “Nature at its best”	Sep 2012
2	ISTE	Workshop on “Aurdinobotics”	28/09-29/09/12
3	IEEE	Workshop on “Embedded linux device drivers”	31 st mar 2013
4	IEEE	Workshop on “Linux System programming”	23 rd , 24 th , 30 th march & 6 th April 2013
5	IEEE	Workshop on “ASIC Physical Design using CADENCE TOOLS”	Feb-March 2013

S. No.	Student Name	Roll NO.	Paper Title	Venue	Date
1	Jayasreee Sahu	11B81A1018	Augmented reality	GNITS	March 23,2013
2	K.Lakshmi Sravanthi	11B81A1023	Augmented reality	GNITS	March 23,2013

3	Jayasree Sahu	11B81A1018	Augmented reality	CBIT	March 19&20 th 2013
4	K.Lakshmi Sravanthi	11B81A1023	Augmented reality	CBIT	March 19&20 th 2013
5	Yeleswarapu Sriya	11B81A1046	Piezo Electric Nano Generators to power portable devices	GNITS	March 23,2013
6	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	GNITS	March 23,2013
7	Yeleswarapu Sriya	11B81A1046	Piezo Electric Nano Generators to power portable devices	BVRIT	March 14&15 th 2013
8	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	BVRIT	March 14&15 th 2013
9	Yeleswarapu Sriya	11B81A1046	Piezo Electric Nano Generators to power portable devices	CBIT	March 19&20 th 2013
10	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	CBIT	March 19&20 th 2013
11	Kajal Thakur	11B81A1019	Nano Technology Under Stream carbon Nano tubes	GRIET	March 19&20 th 2013
12	Hemanth Kocherlakota	11B81A1017	Nano Technology Under Stream carbon Nano tubes	GRIET	March 19&20 th 2013

(2013-2014)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	ISTE	Android Mobile Controlled Robot	21 st and 22 nd September 2013
2	ISTE	Robotics Workshop	27 th September 2013

S.NO	ROLL NO.	STUDENT NAME	EVENT
1	10B81A1046	SREE RAM VENKATA KRISHNA SINDHUJA	Android Mobile Controlled Robot
2	10B81A1049	ASOWMYA	Android Mobile Controlled Robot
3	10B81A1009	NERMATI BHASKAR REDDY	Robotics Workshop
4	10B81A1043	R SHARADA PRIYADARSHINI	Android Mobile Controlled Robot
5	10B81A1019	VADLAMUDI HIMA BHARAT CHOWDARY	Robotics Workshop
6	10B81A1044	E SHASHIDHAR	Android Mobile Controlled Robot
7	10B81A1021	MUKKA KRANTHI KUMAR	Robotics Workshop

8	10B81A1013	GOPUDIVYA	Android Mobile Controlled Robot
9	10B81A1037	M SAMYUKTHA	Robotics Workshop
10	10B81A1052	KASULA VAMSHIKRISHNA	Android Mobile Controlled Robot
11	11B81A1005	P ANURAG REDDY	Android Mobile Controlled Robot
12	11B81A1009	A BHAVANA	Android Mobile Controlled Robot
13	11B81A1014	P DIVYA	Android Mobile Controlled Robot
14	11B81A1019	T KAJAL	Robotics Workshop
15	11B81A1026	G MOUNIKA	Robotics Workshop
16	11B81A1031	K RAJESH	Robotics Workshop
17	11B81A1045	N SRI CHANDANA	Android Mobile Controlled Robot
18	11B81A1051	N SUNDARA SOWMYA	Robotics Workshop
19	11B81A1052	S SUSHMITHA	Robotics Workshop
20	11B81A1053	SHAIK TANVEER AHMED	Robotics Workshop
21	11B81A1054	J TARUN	Android Mobile Controlled Robot
22	11B81A1055	S VIKAS REDDY	Android Mobile Controlled Robot
23	11B81A1056	VINCENT	Android Mobile Controlled Robot
24	11B81A1057	K VISHAL	Android Mobile Controlled Robot

(2014-2015)

S. No.	SOCIETY / CHAPTER	EVENT	DATE
1	IEEE	Robo Gravity	Engineers Day '2K14
2	IEEE	Circuit design & PCB publication	Insignia '2K15

S.NO	ROLL NO.	STUDENT NAME	EVENT
1	11B81A1005	P ANURAG REDDY	Robo Gravity
2	11B81A1009	A BHAVANA	Circuit design & PCB publication
3	11B81A1014	P DIVYA	Robo Gravity
4	11B81A1019	T KAJAL	Robo Gravity
5	11B81A1026	G MOUNIKA	Robo Gravity
6	11B81A1031	K RAJESH	Circuit design & PCB publication

7	11B81A1045	N SRI CHANDANA	Circuit design & PCB publication
8	11B81A1051	N SUNDARA SOWMYA	Robo Gravity
9	11B81A1052	S SUSHMITHA	Circuit design & PCB publication
10	11B81A1053	SHAIK TANVEER AHMED	Circuit design & PCB publication
11	12B81A1001	M ABHISHEK	Robo Gravity
12	12B81A1003	POTHI REDDY AKSHITHA REDDY	Circuit design & PCB publication
13	12B81A1005	ANURAG CHATURVEDI	Circuit design & PCB publication
14	12B81A1006	BEERELLI ARIVIND	Robo Gravity
15	12B81A1007	KESI REDDY ARUN KUMAR REDDY	Circuit design & PCB publication
16	12B81A1009	BIPIN WILSON	Robo Gravity
17	12B81A1010	YATHAM CHANDANA	Circuit design & PCB publication
18	12B81A1011	CHITTRIETA GORAIN	Robo Gravity
19	12B81A1022	PANKAJ RAUTELA	Robo Gravity
20	12B81A1024	M PRANITH KUMAR	Robo Gravity
21	12B81A1026	KANTEM PRUDHVI	Circuit design & PCB publication
22	12B81A1031	DUNDUMALLA SAI ASRITH REDDY	Robo Gravity
23	12B81A1034	SAI NIKHIL ABBURI	Circuit design & PCB publication
24	12B81A1036	SAI SAREEN TATTALA	Robo Gravity
25	12B81A1037	T. SAI SIDDHARTH	Robo Gravity
26	12B81A1041	M SAIRAM	Circuit design & PCB publication
27	12B81A1043	BIYANI SHASHANK	Circuit design & PCB publication
28	12B81A1045	BALLEM SHILPA	Robo Gravity

The following are the contribution in technical festival by EIE students held in the college called CIENCIA-13

CIENCIA Programmes Year-wise

(2011-12)

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	B.Abhiteja	11B81A1027	Bluetooth	Paper presentation	CIENCIA'2K12
2	V. Satvik	11B81A1042	Bluetooth	Paper presentation	CIENCIA'2K12
3	S. Sarala	10B81A1040	Video Surveillance Systems	Paper presentation	CIENCIA2K12

(2012-2013)

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	Jayasree Sahu	11B81A1018	Augmented reality	Paper Presentation	CIENCIA'2K13
2	K.Lakshmi Sravanthi	11B81A1023	Augmented reality	Paper Presentation	CIENCIA'2K13
3	Yeleswarapu Sriya	11B81A1046	Piezo Electric Nano Generators to power portable devices	Paper Presentation	CIENCIA'2K13
4	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	Paper Presentation	CIENCIA'2K13
5	Kajal Thakur	11B81A1019	Carbon Nano tubes Under the Stream carbon Nano tubes	Paper Presentation	CIENCIA'2K13
6	Hemanth Kocherlakota	11B81A1017	Carbon Nano tubes Under the Stream carbon Nano tubes	Paper Presentation	CIENCIA'2K13

(2013-2014)

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	B.Arivind	12B81A1006	Wireless Automation Using PLC's	Paper presentation	CIENCIA'2K14
2	B.Arivind	12B81A1006	Robo Expo	Robo Exhibition, Won 2 nd prize	CVRCE,ISTE Chapter
3	B.Arivind	12B81A1006	Android controlled robotics	Workshop	CVRCE,ISTE Chapter
4	Y.Chandana	12B81A1010	Techaura	Paper presentation	IEEE FEST,2013
5	P.P.P. Anirudh	12B81A1023	Robo gravity	Workshop	CVRCE,ISTE Chapter
6	P.P.P. Anirudh	12B81A1023	Ethical Hacking	Paper presentation	
7	P.P.P. Anirudh	12B81A1023	Android controlled robotics	Workshop	CVRCE,ISTE Chapter
8	P.P.P. Anirudh	12B81A1023	Escape Plan	Workshop	CIENCIA'2K14

9	Pankaj Rautella	12B81A1022	Robogravity	Workshop	CIENCIA'2K14
10	Pankaj Rautella	12B81A1022	Inside Touch Screen	Paper presentation	CIENCIA'2K14
11	Vasudev	12B81A1052	Control and Instrumentation of Power plants	Paper Presentation	CIENCIA'2K14 14 th ,15 th march 2014
12	D.Sai Asrith Reddy	12B81A1031	Control and Instrumentation of Power plants	Paper Presentation	CIENCIA'2K14 14 th ,15 th march 2014
13	A,Venkatesh	12B81A1054	Ethical Hacking	Technical Event	CIENCIA'2K14
14	K.Sai Chandra	12B81A1039	Turbo IIT	Workshop	CIENCIA'2K14 14 th ,15 th march 2014
15	K.Sai Chandra	12B81A1039	Android controlled robotics	Workshop	CVRCE,ISTE Chapter
16	M.Sai Shushma	12B81A1038	Robogravity	Workshop	CIENCIA'2K14
17	M.Sai Shushma	12B81A1038	WIE Inauguration	Workshop	CVRCE,7 th march,2014
18	M.S. Sushma	12B81A1038	IEEE Techfest	Workshop	IEEE Techfest Sep 28 th ,2013
19	A.V. Shravani	12B81A1053	Robogravity	Workshop	CIENCIA'2K14
20	A.V. Shravani	12B81A1053	WIE Inauguration	Workshop	CVRCE,7 th march,2014
21	A.V. Shravani	12B81A1053	Cognizence	Workshop	IEEE Techfest Sep 28 th ,2013
22	A.V. Shravani	12B81A1053	Instensors	Paper presentation	CIENCIA'2K14
23	G.Sowmya	12B81A1048	Techaura	Paper Presentation	IEEE FEST, Sep 28 th ,2013
24	M.Snehitha	12B81A1046	Techaura	Paper Presentation	IEEE FEST, Sep 28 th ,2013
25	K.Yashaswini	12B81A1057	Cognizence	Workshop	IEEE Techfest Sep 28 th ,2013
26	K.Somnath	12B81A1047	Robo gravity	Workshop	CIENCIA'2K14

(2014-2015)

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	E. Hima sri	13B81A1015	Paper presentation	National level Technical syposium	CIENCIA'2K15
2	Ajay	13B81A1034	Flash Mob	National level Technical syposium	CIENCIA'2K15
3	Aishwarya Joshi	13B81A1002	Paper presentation	National level Technical syposium	CIENCIA2K15
4	Vihar	13B81A1051	5 K RUN	National level Technical syposium	CIENCIA'2K15
5	P.Naga neha	13B81A1022	Paper presentation	National level Technical syposium	CIENCIA2K15

6	K.Akhil Teja	13B81A1004	Project Expo	Electrocruise	September,2015
7	S.Harsha Vardhan	13B81A1013	Paper Presentation	National level Technical symposium	CIENCIA'2K15, Won 1 st prize
8	S.Harsha Vardhan	13B81A1013	Paper Presentation	Technolites	October,2015, Won 2 nd prize
9	S.Harsha Vardhan	13B81A1013	PCB Fabrication workshop	Insigna labs ,IEEE	February ,2015
10	K.Akhil Teja	13B81A1004	Painting	Art Gallery	CIENCIA'2K15
11	Jayashree sahu	11B81A1018	Won the 1 st prize C.Sitapathi Rao Endowment award	Instrumnetation Society of India	10 th July,2015
12	Yelleswarapu Sriya	11B81A1046	Won the 2nd prize C.Sitapathi Rao Endowment award	Instrumnetation Society of India	10 th July,2015

CVR College sponsored faculty coordinator to attend 2 weeks Faculty Development programme on Entrepreneurship held at Osmania University from 31-12-2013 to 10-01-2014.

List of students participated in different Entrepreneurship programmes

S. No.	Activity	Description	DATE	Venue
1	Charms of Entrepreneurship.	Achievement Motivation Technique Marketing Assessment.	2 nd -4 th Feb 2012	CVRCE
2	Establishment of Entrepreneur	Licenses & Clearances	2 nd -4 th Feb 2012	CVRCE
3	Soft Skills Development	Personality Developed Programme	28 th may-16 th jun 2012	CVRCE
4	Robotic Work Shop	Robotic Hands on	21 th may-31 th may 2012	CVRCE
5	Mini Project	Product Design	4 th jun-30 th jun 2012	CVRCE

S. No.	Student Name	Roll NO.	Event
1	Y.Pratyusha	08B81A1036	Charms of Entrepreneurship
2	M.Suvidha	08B81A1055	Establishment of Entrepreneur
3	M. Adithya	08B81A1002	Soft Skills Development
4	V.Ajith	08B81A1004	Robotic Work Shop
5	S. Santosh	08B81A1042	Charms of Entrepreneurship
6	Sunaina Menon	08B81A1054	Robotic Work Shop
7	T. Anush Kumar	09B81A1005	Robotic Work Shop
8	A.Sridhar	09B81A1048	Robotic Work Shop
9	B.Ajit	09B81A1003	Charms of Entrepreneurship
10	G.Durga Ajay Kumar	09B81A1002	Robotic Work Shop

11	R. Kiran Kumar	09B81A1017	Robotic Work Shop
12	J. Badrinath	09B81A1009	Charms of Entrepreneurship
13	K.Rohith Kumar	09B81A1031	Soft Skills Development
14	Y.Raviteja	09B81A1029	Soft Skills Development
15	S.Vikram	09B81A1059	Charms of Entrepreneurship
16	V. Abhijit	09B81A1001	Mini Project
17	Ch. Sudeep Kumar	09B81A1050	Establishment of Entrepreneur
18	K. Prasann	09B81A1035	Establishment of Entrepreneur
19	S. Sathvik Reddy	09B81A1032	Mini Project
20	G.Rakesh	09B81A1028	Mini Project
21	B.Bindu	09B81A1010	Establishment of Entrepreneur
22	R. Sphurthi	09B81A1045	Robotic Work Shop
23	N. Sushmitha	09B81A1052	Robotic Work Shop
24	B. Pradeep	09B81A1024	Establishment of Entrepreneur
25	G. Nitin Kumar	09B81A1022	Mini Project
26	M.Sai Sasidhar	09B81A1034	Mini Project

CAY (2013-2014)

S. No.	Activity	Description	DATE
1	CIENCIA '13	Charms of Entrepreneurship. Achievement Motivation Technique .Marketing Assessment.	19 th -21th Sep. 2012

S.NO	ROLL NO.	STUDENT NAME	VENUE
1	10B81A1046	SREE RAM VENKATA KRISHNA SINDHUJA	CVRCE
2	10B81A1049	ASOWMYA	CVRCE
3	10B81A1009	NERMATI BHASKAR REDDY	CVRCE
4	10B81A1043	R SHARADA PRIYADARSHINI	CVRCE
5	10B81A1019	VADLAMUDI HIMA BHARAT CHOWDARY	CVRCE
6	10B81A1044	E SHASHIDHAR	CVRCE
7	11B81A1005	P ANURAG REDDY	CVRCE
8	11B81A1009	A BHAVANA	CVRCE
9	11B81A1014	P DIVYA	CVRCE
10	11B81A1019	T KAJAL	CVRCE
11	11B81A1026	G MOUNIKA	CVRCE
12	11B81A1031	K RAJESH	CVRCE
13	11B81A1045	N SRI CHANDANA	CVRCE
14	11B81A1051	N SUNDARA SOWMYA	CVRCE
15	11B81A1052	S SUSHMITHA	CVRCE
16	11B81A1053	SHAIK TANVEER AHMED	CVRCE
17	12B81A1001	M ABHISHEK	CVRCE
18	12B81A1003	POTHI REDDY AKSHITHA REDDY	CVRCE
19	12B81A1005	ANURAG CHATURVEDI	CVRCE

20	12B81A1006	BEERELLI ARIVIND	CVRCE
21	12B81A1007	KESI REDDY ARUN KUMAR REDDY	CVRCE
22	12B81A1009	BIPIN WILSON	CVRCE
23	12B81A1010	YATHAM CHANDANA	CVRCE

CAYm1 (2012-2013)

S. No.	Activity	Description	DATE
1	Achievement Motiva-Motivation Technique	Project Identification Characteristics of an Entrepreneur	20-12- 2012
2	Establishment of Entrepreneur	Licenses & Clearances , for new Entrepreneurs ,Business Laws For Entrepreneurs, Project Report Preparation, Marketing Management, Sources of Finance	21-12- 2012
3	Communication Skills Developments	Personality Developments Programme	22-12- 2012

S.NO	ROLL NO.	STUDENT NAME	EVENT
1	09B81A1017	R. KIRAN KUMAR	Achievement Motiva-Motivation Technique
2	09B81A1009	J. BADRINATH	Establishment of Entrepreneur
3	09B81A1031	K.ROHITH KUMAR	Achievement Motiva-Motivation Technique
4	09B81A1029	Y.RAVITEJA	Establishment of Entrepreneur
5	09B81A1059	S.VIKRAM	Establishment of Entrepreneur
6	09B81A1001	V. ABHIJIT	Achievement Motiva-Motivation Technique
7	09B81A1050	CH. SUDEEP KUMAR	Establishment of Entrepreneur
8	09B81A1035	K. PRASANN	Achievement Motiva-Motivation Technique
9	09B81A1032	S. SATHVIK REDDY	Establishment of Entrepreneur
10	09B81A1028	G.RAKESH	Achievement Motiva-Motivation Technique
11	09B81A1010	B.BINDU	Establishment of Entrepreneur
12	09B81A1045	R. SPHURTHI	Achievement Motiva-Motivation Technique
13	09B81A1052	N. SUSHMITHA	Communication Skills Developments
14	09B81A1024	B. PRADEEP	Communication Skills Developments
15	10B81A1046	SREE RAM VENKATA KRISHNA SINDHUJA	Communication Skills Developments
16	10B81A1049	ASOWMYA	Establishment of Entrepreneur
17	10B81A1009	NERMATI BHASKAR REDDY	Achievement Motiva-Motivation Technique
18	10B81A1043	R SHARADA PRIYADARSHINI	Achievement Motiva-Motivation Technique
19	10B81A1019	VADLAMUDI HIMA BHARAT CHOWDARY	Achievement Motiva-Motivation Technique

20	10B81A1044	E SHASHIDHAR	Achievement Motiva-Motivation Technique
21	10B81A1021	MUKKA KRANTHI KUMAR	Achievement Motiva-Motivation Technique
22	10B81A1013	GOPUDIVYA	Establishment of Entrepreneur
23	10B81A1037	M SAMYUKTHA	Establishment of Entrepreneur
24	10B81A1052	KASULA VAMSHIKRISHNA	Establishment of Entrepreneur

33. List the teaching methods adopted by the faculty for different programmes.

Apart from the conventional lecture method, use of PPT'S group activity tutorials, student's seminar, etc..... are employed.

The following teaching methods are adopted for B.Tech programme

- 1) Regular lectures
- 2) Tutorials
- 3) Quizzes
- 4) Seminar on special topics by students
- 5) Lab Instructions
- 6) Assignments
- 7) Mini Project industry oriented.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The assessment of PEOs and Pos and their monitoring is done by hiring the direct and indirect tools as listed below:

Direct Assessment Tools - like Internal tests, Assignments, Quiz, End Examination, Lab performance etc.

Indirect Assessment Tools – are feedbacks from stake holders (Parents, Alumni, and Industry etc.) and placements.

With the College having Autonomous Status, teacher has direct scope to

- i) Cover syllabus
- ii) Prefer additional topics beyond syllabus and their relevance
- iii) Learning by student is monitored through performance in internal examination
- iv) Quiz assignment and internal test and interaction with students on their performance is done in class room.
- v) Paper setting and valuation of end exam is partly done by teacher, this helps to understand and monitor the concepts gained by student.
- vi) The Department conducts assessment of Pos to identify the gaps. Necessary efforts are put in to take up make up classes, counseling etc. Over the last 3 years even the regulations are modified to bring in more seriousness on the part of students.
- vii) Project guidance, Mini Project guidance, Industry related Mini Project are continuously done under the guidance of teacher.
- viii) Technical paper presentation by students, seminar in Departments, active participation of student in conducting annual technical event, CIENCIA in the college for 3 days all give ample scope to monitor the learning outcomes.

Department has established the following PEO's & PO's

Program Educational Objectives and PEO numbers

PEO Number	Program Educational Objective
PEO 1	The graduates of the four year B.Tech in Electronics & Instrumentation Engineering will be prepared for successful careers in technical field that meet the needs of Indian and International companies.
PEO 2	The graduates of the programme will be trained to meet the technology by making them strong in engineering fundamentals and technical concepts of industrial approach
PEO 3	The graduates of the programme will be developed to acquire knowledge, and analyze the reality, automate and create innovative projects to frame solutions for real life problems.
PEO 4	The graduates of the programme will be inculcated with strong professional and ethical attitude so that they are enriched with good communication skills thereby making them multi dimensionally work effective
PEO 5	The graduates of the programme will be in a position to identify the professional issues related with instrumentation engineering and help them to work successfully in teams and creating an Industrial Learning Environment.

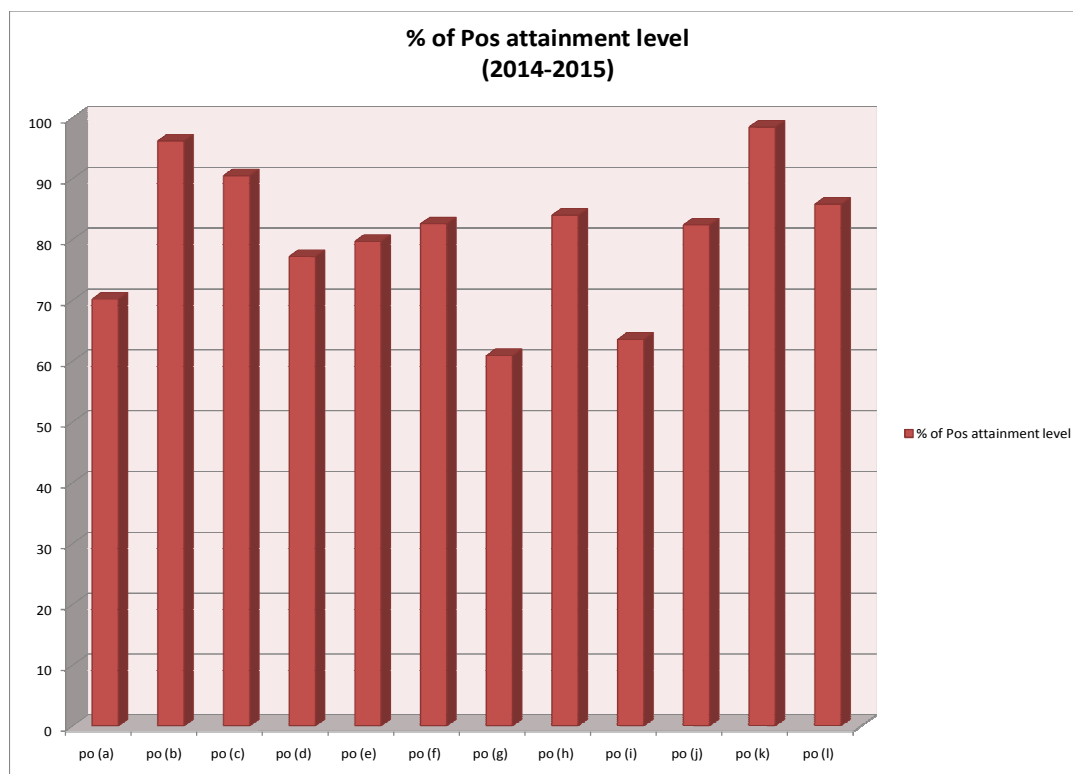
Programme Outcomes (POs):

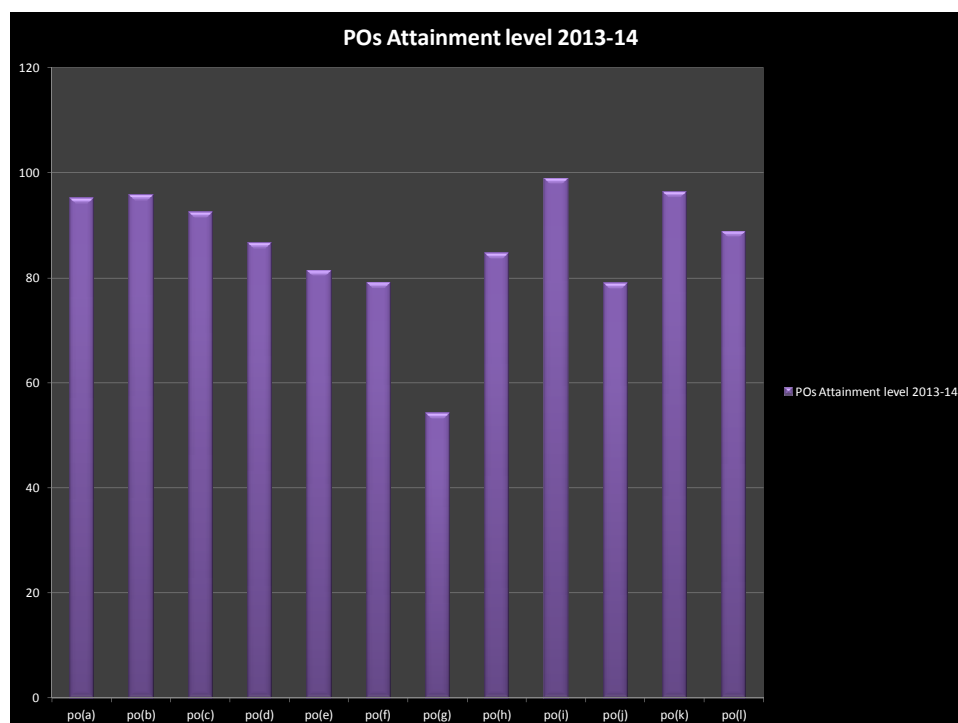
On completion of the four year B.Tech programme in the Electronics & Instrumentation Engineering. A student will be able to:

- (a) Graduates will demonstrate knowledge of differential equations, vector calculus, complex variables, matrix theory, probability theory, physics, chemistry and electrical and electronics engineering.
- (b) Graduates will demonstrate an ability to identify and formulate and solve Instrumentation engineering problems.
- (c) Graduates will demonstrate an ability to design electrical and electronics circuits and conduct experiments with Instrumentation systems, analyze and interpret data..
- (d) Graduates will demonstrate an ability to visualize and work on laboratory and multidisciplinary tasks.
- (e) Graduates will demonstrate skills to use modern engineering tools, software and equipment to analyze problems
- (f) Graduates will demonstrate knowledge of professional and ethical responsibilities.
- (g) Graduates will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues such as energy crisis and global warming.
- (h) Graduates will demonstrate an ability to design the signal conditioning circuits for the real life problems in both analog and digital fields.
- (i) Graduates will be able to communicate effectively in both verbal and written form
- (j) Graduates will demonstrate an ability to design analytical and process control oriented solutions in the Instrumentation field
- (k) Graduates will demonstrate an ability to design modern methods to implement Biomedical measurements which will be a hand on Instruments in hospitals
- (l) Graduates will develop confidence for self education and ability for life-long learning and succeed in competitive examinations like GATE, GRE and TOEFL.

The above methodology for computing PO achievement level can be applied for all Program Outcomes and the results of 2014-15 academic year is tabulated.

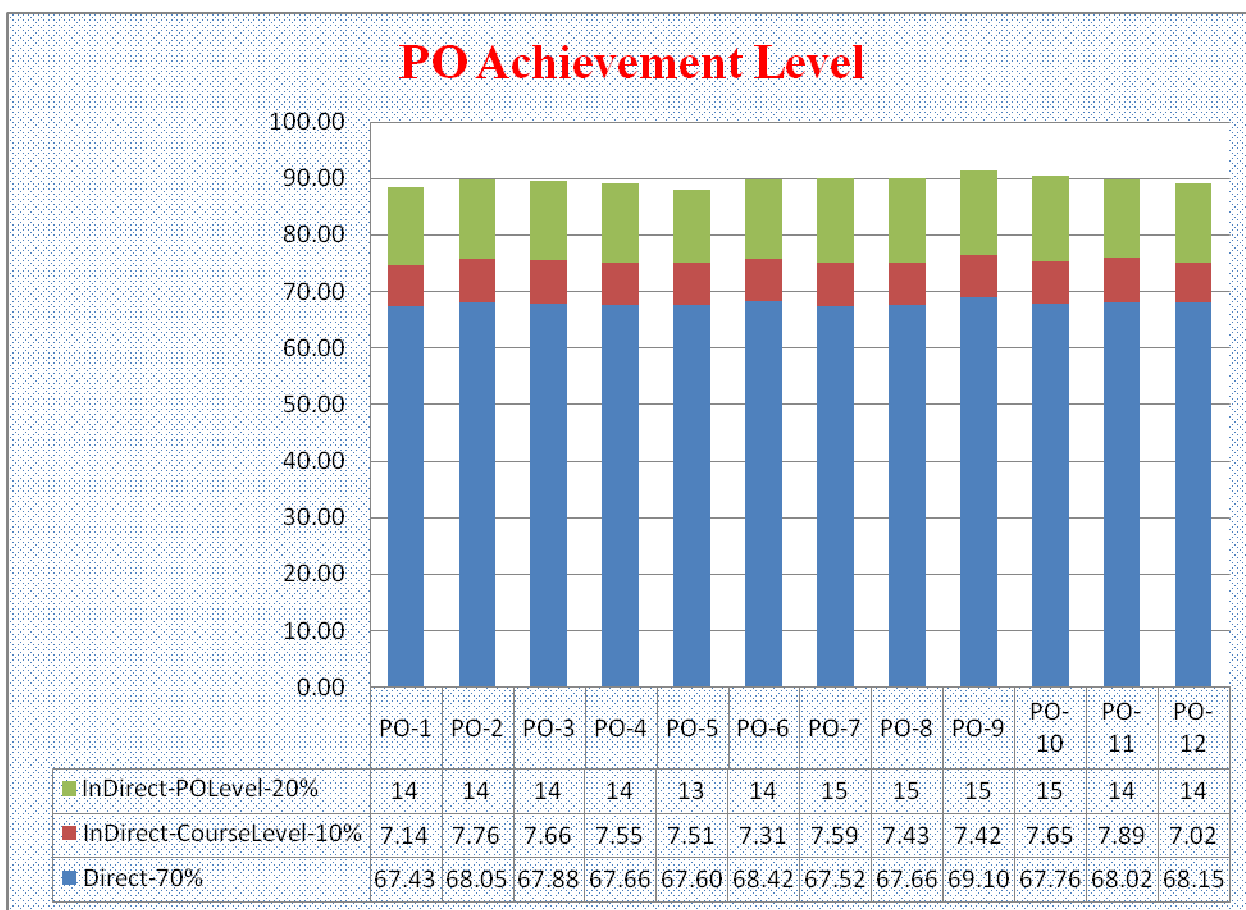
Program Outcome	Achievement Level
PO-(a)	70.2
PO-(b)	96.2
PO-(c)	90.5
PO-(d)	77.2
PO-(e)	79.7
PO-(f)	82.6
PO-(g)	60.9
PO-(h)	84
PO-(i)	63.6
PO-(j)	82.4
PO-(k)	98.5
PO-(l)	85.8





In a similar fashion PO Achievement was calculated for remaining PO's for 2010 Batch Students and results are tabulated below. Graphical representation is also shown.

Program Outcome	Achievement Level
PO-(a)	88.57
PO-(b)	89.81
PO-(c)	89.55
PO-(d)	89.20
PO-(e)	88.11
PO-(f)	89.73
PO-(g)	90.11
PO-(h)	90.09
PO-(i)	91.51
PO-(j)	90.41
PO-(k)	89.91
PO-(l)	89.18



35. Highlight the participation of students and faculty in extension activities.

Students participate in NSS activities regularly, contributing to blood donation, educating the village people on health awareness and Swatch Bharat etc.

NSS: College has NSS Unit sanctioned by JNT University, Hyderabad. Funds are released by the University periodically. College maintains separate Account for NSS. One of the faculty members is designated as Programme Officer. Yearly accounts are submitted to the University under Utilization.

Usage:

- Students register for NSS Unit of the College as Student Volunteers. About 200 students are on rolls as Volunteers.
 - o Every year at least two Blood Donation Camps are conducted.
 - o About 50 staff members and 250 students come forward for blood donation.
 - o The Blood Donation Camps are organized, sponsored by Red Cross Society, for which the Honorary President is the Governor of Telangana State or designated person.
 - o College has a full time Doctor and Nurse. Services of the Doctor are utilized in organizing Health camp at nearby village 'Pocharam', in creating awareness on public health, environment, cleanliness and HIV.
 - o Clean & Green, Tree Plantation at College campus are common features organized on Saturdays/ Sundays.

NSS Unit of **CVR College of Engineering** conducted the following activities during the financial year 2010-11, 2011-12, 2012-13 & 2013-14.

- 16-4-2010 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 243 students and staff voluntarily donated blood.
- 28-3-2011 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 179 students and staff donated blood.
- Health awareness Talk on 7-04-2011 by Dr. ANIL KUMAR ,Medical officer on occasion of world health day,85 volunteers participated.
- Save-environment group discussion on 5-06-2011 competition conducted for the volunteers ,25 volunteers participated
- Tree plantation on 26-08-2011 in the college campus, 150 saplings planted by 40 volunteers.
- THE SPECIAL CAMP AT MANGALPALLI (V) DURING 2nd DECEMBER 2011 TO 9th DECEMBER 2011.
- 07-3-2012 Blood donation camp in the college campus with the association of Red Cross society, Vidyanagar. 283 students and staff voluntarily donated blood.
- Mega Blood Donation Camp conducted in the College Campus on 6th March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.
- Social Awareness and responsibility enhancement Talk organized for II B.Tech student in the college Campus on 6th November 2013. Mr. Azmath Ali, Project Manager, Adult Literacy Program, TCS, Addresses 400 members of Students and motivated them to take part in solving the Society Problems.
- A ONE DAY TRAINING PROGRAMME ON COMPUTER BASED FUNCTIONAL LITERACY (CBFL) conducted in the Campus on 2nd Jan 2014. 25 trainers from B.Tech 3rd year participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.
- A Campus cleaning Programme was taken up under Swachh Bharat Programme by NSS volunteers on 16th October 2014 in the afternoon 2.30pm to 5.30 pm in the College premises.
- Computer Based functional Literacy(CBFL) Program with the association of TCS Is going on in the Pocharam village Ibrahimpatnam Mandal RR District to educate the villagers in reading and writing of Telugu language.
- Programme taken up under Swatch Bharat Programme by NSS volunteers of 149 Members on 16th October 2014 In the afternoon 2.30pm to 5.30 pm In the College campus.

For conducting Mega Blood Donation camps in the college campus regularly and motivating the students and staff to participate in the blood donation voluntarily, Indian Red Cross society AP state Branch, Hyderabad awarded CVR College of Engineering with a Memento and a Cup on World Blood Donors day i.e., 14th June 2014 in the Educational Institutional category .Dr. A. D. Rajkumar, Principal, CVR College of Engineering received the award from the Hon'ble Governor of Telangana and AP on 14th January 2014 at Darbar Hall, Raj Bhavan, Hyderabad. In this regard Hon'ble Governor E.L Narsimhan appreciated our college efforts related to NSS and Social activities

Dr. A. D. Raj kumar, Dean Academics received shield from his excellence S. L.Narsimhan, Governor of the State

Table 7.13: LIST OF ACTIVITIES CONDUCTED IN THE NSS CAMPS.

S. No.	Date	Activity	Description of Activity
1	2.12.2011	Health and Environmental Awareness for Villagers	Inaugural session by village Sarpanch. volunteers formed into groups and educated the villagers during the day

2	3.12.2011	Health Checkup for villagers (Diabetic, B.P Tests and general health check up)	Free medical camp conducted in the Grampanchayath building 175 patients consulted the Physician.
3	5.12.2011	Road Alignment of Mangalpalli (V) approach road	Road formation from Mangalpalli(v) to Koheda Gate Approach roads.
4	7.12.2011	Computer Education for Awareness to the students of Mangalpalli (V) Government School	Patelguda, maglapalli zpss High school visit Computer awareness, higher education awareness and quiz programmes were conducted to the 8 th , 9 th and 10 th class students.
6	08.12.2011	Clean and Green Programme	Volunteers formed into groups and conducted clean and green activities
7	09.12.2011	Financial literacy/awareness among the villagers	Survey conducted by the volunteers in the village and educated the villagers

Computer Based functional Literacy (CBFL) Program with the association of TCS is going on in our adopted village Pocharam, Ibrahimpatnam Mandal RR District. This program is aimed at educating the illiterate villagers with reading and writing of Telugu language. For this program college provided infrastructure facilities including a computer with speakers and UPS. Required study material is also supplied to the registered persons with this program. This program is running successfully under the NSS Unit of College.

36. Give details of “beyond syllabus scholarly activities” of the department:

The following activities encourage students to acquaint with topics beyond syllabus.

- Students are encouraged to become members of IEEE, IETE, Instrumentation Society and paper writing contests, quiz, competitions etc., are held on regular basis.
- Short internship at Government Laboratories called Industry Oriented Mini Project during 3rd year summer vacation is compulsory.
- Technical seminar by students on research based article of IEEE transaction encouraged.
- Students are made to execute mini project.
- Students are made to give presentations on technical papers in various conferences and monetary incentives are provided.
- The college conducts every year student technical program called CIENCIA with huge participation from colleges around the city with number of technical events. There are number of competition and each event with prizes. The paper presentation competition and technical quiz competition are very popular events. Students also demonstrate number of engineering models developed by them and the best models are adjudged for awards. This forum enables wide scope for learning beyond conventional curriculum. Additional in certain subject identified are tabulated below

Topics incorporated beyond syllabus

B.Tech II – I Sem	S. No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
			Theory	Tutorial		
	1	Transduction Of Physical variable	3	1	PEOS - 2 , 4 POS- d, f	1) Choice of transducers 2) Approach of Design
	2	Signals and Systems	4	1	PEOS - 2 , 4 POS- 1,2	1)LTI System Analysis 2) Fourier Analysis
B.Tech II-II sem	1	Structured Digital System Design	3	1	PEOS - 2 , 4 POS- b,d	1) Design of A to D and Mux
	2	Control Systems	3	1	PEOS - 2 , 3,4 POS- b,h	1) Laplace Transform Analysis

B.Tech III-I

Sl. No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Signal conditioning Circuits	4	1	PEOS - 3 , 4 POS- b,h	1) Design of Circuits for All Transducers
2	Principle of electronic Instrumentation	4	0	PEOS - 2 , 4 POS- f,g,h	1) Practical Session on Instruments
3	Analog and digital IC Applications	3	1	PEOS - 2 , 4 POS- b,h	Design of different OP Amp Circuits

B.Tech III-II

Sl. No.	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Microprocessors and Microcontrollers	4	0	PEOS - 2 , 4,5 POS-	Interfacing applications of Microprocessor AVR and RISC introduction
2	Virtual Instrumentation	3	1	PEOS - 2 , 4 POS- e,f	LABVIEW tool
3	Process Control Instrumentation	4	1	PEOS - 2 , 4 POS- g,h	Versparo software approach to PCI Instruments

B.Tech IV-I

Sl. Assignments. & S No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Biomedical Instrumentation	4	1	PEOS - 2 , 4,5 POS- e,f	ECG and BP measurements
2	Analytical Instrumentation	4	1	PEOS - 2 , 4 POS- g,h	UV Visible IR spectrophotometer

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

EIE department is accredited by NBA for 2 years in 2013 when it became eligible.

Permanently affiliated to JNTU

Autonomous status given by JNTU for 3 years from 2011-12 to 2013-14

Autonomous status given by UGC for 6 years from 2014-15 to 2019-20

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:

1. Well qualified senior faculty members
2. Well equipped laboratories
3. Good library
4. Well structured curriculum
5. Good placement record

Opportunities:

1. Instrumentation needs are ever expanding
2. Instrumentation needs are across various sectors and diversified
3. Sensors, transducer, PLC, SCADA are futuristic cutting edge technologies providing enormous opportunities.
4. The department has now only one section of B. Tech. Hence growth opportunity is quite wide.
5. With plans of 'Make in India' and India becoming manufacturing hub and resultant automation, the requirement for instrumentation engineering is bound to shoot up.

Challenges:

1. Fresh infusion of well qualified teachers in tune with the expansion programme
2. Development of curriculum in tune with fast changing dynamics
3. Motivating cream of the students to opt for the branch of EIE
4. Ensuring that the department remains one of the best EIE dept. in entire Telengana state
5. Fostering research culture.

Weakness:

1. Absence of PG programmes in Instrumentation Engineering at our college
2. Absence of full fledged exclusive software system lab for industrial automation
3. Absence of intensive research pursuit on full time basics in Instrumentation Engineering

39. Future plans of the department.

1. Starting M.Tech program in
 - i. Instrumentation Engineering
 - ii. Process control instrumentation
2. To establish Software system lab for industrial automation tools for lab view, PLC and SCADA.

E.6.INFORMATION TECHNOLOGY

1. Name of the Department & its year of establishment:

Department : Department of Information Technology

Year of Establishment : 2001

Names of Programmes / Courses offered: (UG, PG, M Phil., Ph.D., Integrated Masters, and integrated Ph.D. etc.):
UG: B. Tech. in Information Technology (B.Tech-IT).

2. Interdisciplinary courses and departments involved:

Courses offered by other Departments for Department of Information Technology.

S.No.	Subject	Department	When Offered Year/Sem.	Credits
1	ENGLISH	H & S	I year/I sem.	4
2	MATHEMATICS – I	H & S	I year/I sem.	5
3	ENGINEERING CHEMISTRY	H & S	I year/I sem.	4
4	ENGINEERING DRAWING- I	Mechanical	I year/I sem.	2
5	ENGINEERING CHEMISTRY LAB	H & S	I year/I sem.	2
6	ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB - I	H & S	I year/I sem.	2
7	MATHEMATICS – II	H & S	I year/II sem.	5
8	ENGINEERING DRAWING- II	Mechanical	I year/II sem.	2
9	ENGINEERING PHYSICS	H & S	I year/II sem.	4
10	ELECTRICAL TECHNOLOGY	EEE	I year/II sem.	4
11	ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB - II	H & S	I year/II sem.	2
12	ENGINEERING PHYSICS LAB	H & S	I year/II sem.	2
13	ENGINEERING WORKSHOP PRACTICE	Mechanical	I year/II sem.	2
14	Computational Mathematics	H & S	I Year/II Sem	2
15	Computational Mathematics Lab	H & S	I Year/ II Sem	2
16	Probability and Statistics	H & S	II year/I sem.	3
17	Environmental Studies	H & S	II year/I sem.	3
18	Electronic Devices and Circuits	ECE	II year/I sem.	4
19	Electrical and Electronics Engineering Lab.	EEE/ECE	II year/I sem.	2
20	Verbal Ability Lab.	H & S	II year/I sem.	1
21	Reasoning and Logic Lab.	H & S	II year/I sem.	1
22	Gender Sensitization	H & S	II year/II Sem	2
23	Managerial Economics and Financial Analysis	H & S	III year/I sem.	3
24	Advanced English Communication & Soft Skills lab.	H & S	III year/I sem.	2
25	Data Interpretation Lab	H & S	III year/I sem.	1
26	Quantitative Ability Lab	H & S	III year/II sem.	1
27	Management Science	H & S	IV year/II sem.	3

3. Annual / Semester / choice based credit system:

B.Tech Semester pattern with prescribed credits for each subject.

Choice Based Credit System has been adopted from the Academic year 2015-16 approved by Board of Studies and Academic council of the college. B.Tech I Year and M.Tech I year of

2015 admission batch has CBCS. Senior classes continue in Semester pattern as per their regulations.

4. Participation of the department in the courses offered by other departments

Department of IT offers the following courses/subjects to other Departments.

Course	Year-Semester	Department	Credits
Problem Solving Through C	B. Tech. I year – I Semester	ECE	3
Problem Solving Through C	B. Tech I year – I Semester	EIE	3
IT Workshop Lab	B.Tech I Year I Semester	Civil	3
Data Structures Through C	B. Tech I Year – II Semester	ECE	3
Data Structures Through C	B. Tech I Year – II Semester	EIE	3
IT Workshop Lab	B. Tech I Year – II Semester	ECE	3
IT Workshop Lab	B. Tech I Year – II Semester	EEE	3

6. Number of teaching posts sanctioned and filled (Professors / Associate Professors / Asst. Professors)

	Sanctioned (As per AICTE Norms)	Filled
Professors	2	3
Associate Professors	6	5
Asst. professors	16	17 (2 Sr. Asst. Professors)
Total	24	25

7. Faculty profile with name qualification, designation, specialization, (D.Sc. / D.Litt. / Ph. D. / M. Phil. etc.,)

Faculty List for the academic year 2015-16:

S. No	Name of the faculty member	Qualification, university, and year of graduation	Designation and date of joining the institution	Specialization	No. of Years of Experience	No. of Ph. D. Students guided for the last 4 years
1	Prof. U. V. Ramana Sarma	M. Tech., (PhD), OU, 1999	Professor & Head, IT Dept, 6-7-2006	Software Engineering, Real Time Systems, Databases	14 years of Industry, 25 years of teaching	-
2	Dr. R. Seetharamaiah	PhD, HCU, 2014	Professor, 01-11-2001	Distributed systems, Microprocessors and micro controllers, Embedded systems, Computer architecture	Industry 13 years	-
3	Dr. Bipin Bihari Jaya Singh	M.Tech, JNTU, PhD, 2007	Professor, 26-6-2006	Network security, computer networks, DMDW and computer forensics	16 years	5(Guiding)
4	Mr. K. Brahmanand	M. Tech, HCU, 1993	Assoc. Prof., 01-6-2005	Software engineering	10 years Teaching, 9 years Industry	-
5	Mr. C.V.S. Satyamurthy	M. Tech., (PhD), JNTU, 2000	Assoc. Prof., 21-4-2007	Software Engineering	06 years of Industry, 17 years of teaching	-
6	Mrs. H. N. Lakshmi	M.S, BITS (PhD) 1998	Assoc. Prof., 30-5-2006	Web Services, Data structures	14 years	-

7	Mr. B. Vikranth	M. Tech, (PhD), OU, 2006	Assoc. Prof., 06.08.2004	Linux Programming	14 years Teaching 5 Years Research	-
8	Mrs. E. Jyothikiranmayi	M. Tech., (PhD), JNTU, 2004	Assoc. Prof., 08-6-2009	Wireless Sensor Networks	11 years	-
9	Mr. A. Seetharam Nagesh	M. Tech, JNTU, 2010	Sr. Asst. Prof., 26-6-2006	Cloud computing	14 years	-
10	Mrs. N. Pavani	M. Tech, JNTU, 2013	Sr. Asst. Prof., 29-06-2006	Design patterns	10 years	-
11	Mr. S. Anupkant	M. Tech, JNTU, 2010	Asst. Prof., 27-10-2004	Embedded Systems	11 years	-
12	Mr. Vamsi Vijaya Krishna	M. Tech, JNTU, 2013	Asst. Prof., 04-6-2008	OOPS, Design patterns	8 years	-
13	Mrs. S. Rajitha	M.Tech, JNTU, 2013	Asst. Prof., 12-6-2008	Web usage Mining	10 years	-
14	Mrs. G. Bhagyasri	M. Tech, OU, 2013	Asst. Prof., 02-6-2008	Web Services, Data structures	10 years	-
15	Mrs. G. Sunitha Rekha	M. Tech, JNTU, 2011	Asst. Prof., 01-6-2010	Data Mining	9 years	-
16	Mrs. A. Sri Chandana	MS, JNTU, 2007	Asst. Prof., 01-6-2010	DBMS	5 years	-
17	Mr. Bhanu Mahesh	M. Tech, JNTU, 2010	Asst. Prof. 14-6-2010	Cloud Computing and Data Mining	11 years	-
18	Mr. Nayani Sateesh	M. Tech, M. Phil (PhD), 2010, JNTU	Asst. Prof., 01-6-2011	Web technologies	3years-Industry, 4 years-Teaching	-
19	Mrs. S. Jyothsna	M. Tech, JNTU, 2010	Asst. Prof. , 01-07-2011	Cloud computing	11 years	-
20	Mr. M. Srinivas	M. Tech, UOM, 2013	Asst. Prof., 10-7-2013	Soft computing	8 years	-
21	Mrs D.Mamatha Rani	M. Tech, JNTU, 2011	Asst. Prof., 02-06-2014	Cloud Computing, Mobile computing	9 years	-
22	Mr.P.Seravana Kumar	M. Tech, JNTU, 2011(Ph.D)	Asst. Prof., 02-08-2014	Bio Data Mining	8 years	-
23	Mr. B. Satheesh Kumar	M.Tech, JNTU, 2015	Asst. Prof., 27-05-15	Data Mining	8 Months	-
24	Mrs. J. Yashasree	M.Tech, JNTU, 2012	Asst. Prof., 04-08-2015	Cloud Computing, Big Data	3 Years	-
25	Mr. V.D.S. Krishna	M.Tech, JNTU, 2012	Asst. Prof., 06-08-15	Cloud Computing	3 Years	-

8. Percentage of classes taken by temporary faculty – programme-wise information:

Department has no temporary faculty. All are regular.

9. Programme-wise Student Teacher Ratio:

B.Tech Student Teacher Ratio is 14.4:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff		Administrative Staff (DTP Operator)	
Sanctioned	Filled	Sanctioned	Filled
7	7	01	01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

RFID: Management has created center for RFID with Prof. Sen Gupta, Dean-Projects as a convener.

Teams of Faculty involved are:

1.Mr. K. Brahmanand.

2. Mr. B.Vikranth.

Management has sanctioned Rs. 18.5 lakhs for 2 years during 2009-2010 and 2010-2011.

A team of faculty from three departments has been constituted to work on RFID.

12. Departmental projects funded by DST-FIST ; DBT, ICSSR, etc.; total grants received: Nil

13. Research facility / center with

- State recognition : Nil
- National recognition : Nil
- International recognition : Nil

14. Publications:

Number of papers published in peer reviewed journals (national / international):49

Type of paper	2014-15	2013-14	2012-13	2011-12	2010-11
International Conference	7	2	6	1	2
International Journal	1	1	7	8	-
National Journal	2	2	7	2	1
National Conference	-	-	-	-	-
Total	10	5	20	11	3

Monographs: Faculty members prepare Lab. Manuals. Printed Lab manuals are supplied to students.

S.No	Lab Name	Faculty Name
1	Problem Solving Through C	Mr. B Vikranth
2	Data Structures Through C	Mrs. G Bhagyasri
3	ITWS	Mr. N Sateesh
4	Advance Data Structures Through C++	Mrs. E Jyothi Kirnmayi
5	Unix & Shell Programming	Mrs. G Sunitha Rekha
6	OOP Through Java	Mr. J Vamshi Vijaya Krishna
7	DBMS	Mrs. A Srichandana
8	MPMC	Mr. K V Sri Harsha
9	Computer Networks	Mr. C V S Satyamurthy
10	Embedded System Design	Mr. K V Sri Harsha
11	Web Technologies	Mr. D Bhanu Mahesh
12	Linux Programming	Mrs. S Rajitha
13	Mobile Application Design Through Android	Mr. A Seetharam Nagesh
14	Case Tools	Mr. S Anupkanth
15	Software Testing Methodologies	Mrs. N Pavani

Chapter(s) in Books : -

Editing Books : -

Books with ISBN numbers with details of publishers: -

Number listed in International database (For e.g. Web of science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : **17**

Citation index – range / average : -

SNIP : -

SJR : -

Impact factor – range / average: **2.32**

h – Index :

15. Details of patents and income generated : Nil

16. Areas of consultancy and income generated : Nil

17. Faculty recharging strategies:

College adopts the following recharging strategies:

- i) Conducting short term seminars / workshops.
- ii) Guest lecturers organized by department.
- iii) Deputing faculty to attend workshops in other colleges.
- iv) Sponsoring faculty for journals/conferences and offering financial incentives.
- v) Liberal sanction of study leave for those doing Ph.D. for six months with salary,
two times during Ph.D. work.
Prof. Ramana Sarma, Dr. Seetharamaiah, Mr. C. V. S. Satya Murty, Mr. B.Vikranth, Mrs. H. N. Lakshmi and Mrs. E. Jyothikiranmayi availed such a Facility of deputation with salary.
- vi) Financial incentives for completing M.Tech. Under part time programs.
- vii) Encouraging faculty to write technical paper with incentive of Rs10,000 per author.

18. Student projects

- Percentage of students who have done in-house projects including inter-departmental: 90%
- Percentage of students doing projects in collaboration with industries / institutes: 10%
- College has a policy of sending the students to reputed Industries like ECIL, DRDO and some software industries etc.

Typical project titles completed by students are listed below:

S. No	Project Title	Core Engineering Subject	Tools/ Technology Used	Year
1	Pattern Searching using CUDA programming (College Best Project)	PSC , Data structures through C++	C, C++, Extensions with CUDA library, Compatible CUDA	2015
2	Mining of Web Server Logs using BIG Data Technology (Dept. Best Project)	Web Technologies, Java, Linux Programming	Apache Hadoop 1.2.1, Ubuntu OS, Eclipse IDE, Java 1.7 or Later	2015
3	Implementation of IOT(Internet of Things) in a Simple House Automation	Web Technologies, Web Services	.NET	2015
4	Web Services Selection On QoS Parameters	Web Services Web Technologies Database Management	Eclipse IDE, apache Tomcat 6.0.14, MYSQL Server 5.5	2014
5	Keystroke Dynamics Authentication	Networks Security	Eclipse IDE and Tomcat 7.0	2014

6	Collaboration In Multicloud Computing Environments Framework And Security	CLOUD COMPUTING Network Security	OS : Win XP/7/8 programming language:	2013
7	Cut Detection In Wireless Sensor Networks	Design and analysis of algorithms, Computer Networks	Eclipse Editor , Java and RMI	2013
8	Continuous Skyline queries for moving Objects	Data Base Management System, Data ware housing & Data mining	Eclipse, Oracle database 10g Express, Java, Tomcat 6.0	2012
9	Robust Video Data Hiding Using Forbidden Zone Data Hiding And Selective Embedding	Network Security, Data structures Through C, Object oriented	Tools: JDK 1.6 API: J2se UI: Swings	2012
10	A Mobile Application To Access Remote Database Web Service	Web Services	EclipseIndigo, Phone Gap,Android SDk,Java JDK,JSON	2011
11	Forensic Recovery Of Files From Hard Disk	Operating Systems	Windows XP C++	2011
12	A Tool To Compute Metrics For Assessing	Software Engineering	Programming paradigm:	2010
13	An Improved Frequent Pattern Tree Based Association Rule Mining Technique	Data ware housing and Data mining, Object oriented programming	J2SE API (Swings,I/O,Refinery Utilities),JDK	2010

19. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post doctoral fellows : Nil
- Students :

1) Mr. Sai Kiran Chavali got gold medal for Best Project in the year 2012.

2) Miss. Gopika Poornima got gold medal for best student in the year 2013.

20. Seminars / Conferences/ Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

Module Description	Other contributory inst/ industry	Developed/ Organized by	Duration	Resource Persons	Target audience
Public Key Infrastructure (PKI)	IT dept with support of CSI (computer Society of India) Student Branch	Mrs. H.N. Lakshmi	21 st and 22 nd Jan- 2016	Dr. Misbahuddin Md, CDAC Bangalore Mr. Sanjay Adiwai, CDAC, Bangalore	IT Students and IT Faculty
“Software Testing methodologies” on	Self Supported	Dr. Bipin B. Jayasingh	5/9/15	Ms.Sushma ,Project Manager in Google	IT Students and IT Faculty
GRANULAR Computing	Self Supported	Prof. U.V. Ramana Sarma	8/9/15	Prof Sheela Raman,Full Professor in Winnipeg university ,canada	IT Students and IT Faculty
Core fundamentals of Android	Self Supported	Prof. U.V. Ramana Sarma	2/9/15	CVRAlumini Saikiran Chavali Software Engineer in Oracle	IT Students and IT Faculty

Internot Of Things	IT dept with support of CSI (computer Society of India) Student Branch	Prof. U.V. Ramana Sarma	16/10/15	Mr Pawan Shukla,Microsoft	IT Students and IT Faculty
Module Description	Other contributory inst/ industry	Developed/ Organized by	Duration	Resource Persons	Target audience
Software Testing Methodologies	IT dept with support of CSI (computer Society of India) Student Branch	Prof. U.V. Ramana Sarma	13/11/15	Mr Sarathy	IT Students and IT Faculty
Linux System Programming	Self Supported	Dr. Bipin B. Jayasingh	23 rd , 24 th , 30 th March & 6 th April 2013	Software industry & Teachers from IT Dept. of CVR College of Engineering	Students from various Engg. Colleges
Embedded Linux Device Drivers	IETE, Osmania University Campus	Dr. Bipin B. Jayasingh	31 st March 2013	Software industry & Teachers from IT Dept. of CVR College of Engineering	Students from various Engg. Colleges
One day Workshop on Cloud Computing	Self Supported	Prof.R.Seetharamaiah	04-Jan-2012	Prof Rajkumar Buyya,University of Melbourne,Austrailia,Dr.Rajeev Wankar,Univ of Hyd	Teachers from CVR college of Engg & other Engg Colleges & research org

21. Student profile course-wise:

Year of Admission	Applications received	Selected		Pass Percentage		Year of Pass
		Male	Female	Male	Female	
2011	Admissions are made by Convener appointed by Govt. based on State Rank and following statutory reservations	63	50	80	76	2015
2010		53	59	77	95	2014
2009		67	49	88	94	2013
2008		71	48	83	90	2012
2007		53	19	85	98	2011

22. Diversity of Students:

Name of the Course (refer question No.2)	% of students from the college	% of students from the State	% of students from other States	% of students from other Countries
B.Tech 2014	-	100	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Academic Year	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-15
No of Students for GATE	01	03	02	01	00	00

24. Student progression:

Student progression	Percentage against enrolled
UG to PG	20
PG to M. Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	67
• Other than campus recruitment	20
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates of the same parent university	72%
From other universities within the State	24%
From other universities from other States	4%

26. Number of faculty who were awarded Ph.D., D Sc. And D.Litt. during the assessment period:

S. No.	Name	Designation	Department	Month / Year
1	Dr. R. Seetharamaiah	Professor	IT	January-2014

Mrs. H.N. Lakshmi, Associate Prof., IT has submitted her Ph.D. Thesis in the month of July 2015.

27. Present details about infrastructural facilities**a) Library**

Volumes: 6018
Titles: 1141
International Journals: 07
National Journals: 05
Delnet E-Journals: 125
Delnet E-Books : 103
IEEE E-Journals: 27

b) Internet facilities for staff and students:

Name of the Internet provider:	Apollo	Vaishnavi	BSNL
Available bandwidth:	75 Mbps	35 Mbps	10 Mbps
Access speed:	2 Mbps (max) for individual		
Availability of Internet in an exclusive lab	:		Yes
Availability in most computing labs	:		Yes
Availability in departments and other units	:		Yes
Availability in faculty rooms	:		Yes
Institute's own e-mail facility to faculty/students	:		Yes
Security/privacy to e-mail/Internet users	:		Yes

c) Total number of class rooms: **11 (8 class rooms + 2 Tutorial Rooms + 1 Seminar Room)**

All class rooms have OHP. LCD fixed in most of the class rooms.

d) Class rooms with ICT facility:

Class Room Facilities

Facility	Description
Ambience	Very good. All Windows with curtains
Air circulation	Hygienic Cross ventilation is provided

- All rooms are well ventilated and free from echo, glare and acoustics.
- Each Desk is provided by rack to keep books or bag.
- Adequate number of chairs and tables in every class room

e) Students' laboratories:

Laboratory Description on the Curriculum	Exclusive use/Shared	Handled by (Dept.)	Year	No. of experiments	Lab Manuals
Problem Solving through C	Exclusive	IT	I-I semester	25	available with algorithms
IT workshop	Exclusive	IT	I I&II semester	16	available with Examples
Data Structures through C	Exclusive	IT	I-II semester	19	available with algorithms
Data Structures Through C++ & Unix and Shell Programming	Exclusive	IT	II-I semester	15	available with algorithms
DBMS	Exclusive	IT	II-II semester	12	Available
Oops Through Java	Exclusive	IT	II-II semester	12	available with algorithms

Computer networks lab	Exclusive	IT	III-II semester	8	available with algorithms
Linux Programming/Web Technologies lab	Exclusive	IT	III- II semester	23	available with algorithms
Mobile Application Development Lab	Exclusive	IT	IV- I Semester	24	available
Case Tool &Software Testing lab	Exclusive	IT	IV-I semester	16	available
Mini Projects	Exclusive	IT	IV-I semester	-	-
Project	Exclusive	IT	IV-II semester	-	-

In addition departments of EEE, ECE, Physics, Chemistry and Mechanical are offering labs.

f) Research laboratories: One Research lab

28. Number of students of the department getting financial assistance from State Government distributed by College: The following is the information about no. of students getting financial Assistance.

			CVR COLLEGE OF ENGINEERING, VASTUNAGAR, MANGALPALLI, IBP, R.R - 501510 - A.P						
			Under Graduation Students Aailed Financial Assistance from State Govt. For the last Six Academic Years (i.e., 2009-10 To 2014-15)						
S. No .	Course	Course Year	No. of Students Aailed Financial Assistance from State Govt.						
			2015-16 (Yet to Receive)	2014-15 (50% Received and 50%Yet to Receive)	2013-14 (Availe d)	2012-13 (Availe d)	2011-12 (Availe d)	2010-11 (Availe d)	2009-10 (Availe d)
1	B. Tech. (I T)	I Yr.	47	41	60	45	44	45	54
		II Yr.	38	58	44	44	44	52	43
		III Yr.	56	42	39	43	50	40	26
		IV Yr.	40	39	40	49	39	7	23

Note: Tuition fee reimbursement is made by Govt. based on parents' income ceiling

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:

The college was started with 4 branches in 2001 with initial intake for IT department having 60 students. At that point of time (2001) there were very few engineering colleges offering IT branch and there was good demand for software engineers in the market. Hence

we have chosen to start this program with initial intake of 60 students.

Market trend in 2001 was a real boom for IT professionals. Many IT companies came up, Domestic market was in great need for software engineers.

Chairman of college himself was working in USA in Intel and he could assess the need. Intake of department with 60 students subsequently increased to 120 in the year 2007 keeping in view the demand for IT Professionals. Number of seats filled every year is also considered to increase to 120.

30. Does the Department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

JNTU has accorded Autonomous status to College for 3 years from 2011-12 to 2013-14.

UGC has accorded Autonomous status to College for 6 years from 2014-15 to 2019-20. This has enabled faculty to prepare draft course structure and curriculum for approval by Board of Studies and Academic Council. There was also a review in every two years. Thus faculty have direct role in curriculum.

Faculty in Teaching-Learning-Evaluation: As syllabus is framed by faculty and the same is scheduled weekly coverage. Course files circulated to all students as printed booklets give such details. The faculty are involved in paper setting and evaluation. The learning outcomes of students are reviewed by faculty including internal tests, quizzes. This will help the faculty to have direct knowledge on learning outcome.

- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedback analysis and reward / corrective measures taken, if any

Feedback collected for all courses: **YES**

Specify the feedback collection process: The feedback proforma is standardized taking inputs from faculty and guidelines of the university. Every dept has one faculty in charge for feedback. The feedback is taken at 4th week of commencement of semester and at 15th week of semester. The feedback is collected by the in charge and other than the class teacher.

Percentage of students participating: 75%

Specify the feedback analysis process:

The Feedback is analyzed manually.

The core metric derived out of the analysis process is the mean of average of the rating. The metric accounts for the basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage, Clarity of expression, teachers command over the subject, regularity of the student and overall opinion.

Basis of reward / corrective measures, if any:

- A Benchmark of 75% grading is adopted. Faculty scoring 65% to 75% are individually counseled by the respective Head of Department.
- Faculty scoring 55% to 65 % are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. This has helped many junior faculty members to improve, through regular interaction with the Associate Professors.
- Faculty scoring less than 50% is taken as serious cases for review, for one more semester.
- There are few instances of not much of an improvement even after two years such people are put for lab instruction / tutorial for one more year. Detailed analysis sheets are available with the departments.

Teaching – Learning Process

Tutorial classes to address student questions: size of tutorial classes, hours per subject given in the timetable:

Provision of tutorial classes in timetable: YES

Tutorial sheets provided : YES

Tutorial classes taken by faculty / teaching assistants / senior students /Others? -

Concerned Faculty only

Number of tutorial classes per subject per week: 01

Number of students per tutorial class: 30

Number of subjects with tutorials:

I year : 03

II year : 05

III year : 05

IV year : 05

- c. Alumni and employers on the programmes and what is the response of the department to the same?

Alumni Survey:

- The passed out students automatically are eligible to the members of alumni association
- This is a written questionnaire which our alumni are asked to complete.
- The Alumni association meets twice a year and recommends measures for overall improvement of the program
- The data will be used in continuous improvement and attainment of PEOs.
- 5% weightage is taken for computation of PEO attainment
- Employers are involved as members of Government Bodies, Academic Council and Board of Studies. Industry Personnel Views are collected by having detailed discussion every year. Guest Lectures, Campus Connect, PPT are arranged and HODs have opportunity of discussing critical and important issues with the industry experts.

31. List the distinguished alumni of the department

The B. Tech (IV) year students of 2007 batch have successfully launched and operating Software Company in the year 2009-10 whose details are furnished below.

Prodigies Solutions Pvt. Ltd. is an IT Firm established by our IV year IT students.

Mr. K. Sreekar	+91-9700114503	sreekar@prodigiez.com
Mr. G. Aditya Reddy	+91-9700820609	aditya@prodigiez.com

YEAR	NAME	COMPANY	
2011-12	Ravi Teja	CA	
2012-13	Mounika	CA	
2013-14	Adithya Sirni	Kony Labs	
	Nisha singh	Deloitte	
	Harsha Vardhan	Deloitte	
YEAR	NAME	COMPANY	
2014-15	Suveer	TCS	
	Sahithi	TCS	
	Vishala	Deloitte	
	Prasanthi	Deloitte	

	Vinaya Uppara	Capgemini	
	Sahiti	Capgemini	
	Uday Kumar	GGK	
	Rafique	GGK	
	Sanjeev	Mphasis	
	Karthik	Mphasis	

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

- The college curriculum is updated keeping in view of the soft skills to be improved for the students when they need to face placement tests/preliminary rounds for the selection process being conducted by majority of software companies by adding 3 subjects QA Lab, DI Lab and RA Lab.
- Further strengthening of soft skills is done in the workshops conducted by the college by the external experts.
- College is encouraging students to participate in technical seminars and workshops conducted by the college and other colleges.
- organized by the students. Few of these are listed below
- College is organizing technical fest in which workshops, seminars etc will be rganized by the tudents. Few of these are listed below:

S n o	Student/f aculty	Event name	Month & Year	Venue	Speaker s	Topic	Durati on
1	Faculty of IT	TCS - TBU- PIP PROJECTS	Nov, 2015	CVR College of Engineeri ng	by Ms.Sush ma ,Project Manager in Google	FDP Workshop	2 Days
2	Faculty of IT	Emerging trends in Cloud Computing	Dec, 2015	JNTU-H		Emerging trends in Cloud Computing	1 Day
3	Faculty of IT	DIGITAL DISRUPTIO N	Dec, 2015	KMIT		DIGITAL DISRUPTION	1 Day
4	Faculty of IT	Simulation of Wireless Networks using NS2	July, 2014	JNTU - Hyderaba d		Simulation of Wireless Networks using NS2	2 Days
5	Faculty of IT	Security in Cloud Computing	Dec, 2014	OU		Security in Cloud Computing	3 Days
6	Students	Collegiate Cyber Threat Competition — Wave III	Jan,201 4	Deloitte	Trainers , Deloitte	Collegiate Cyber Threat Competition	1 day

7	First Year students	HIGH IMPACT Program	Nov, 2013	CVR College of Engineering	Prem Dayal – Soft Skills Trainer Infosys	Creating awareness about Engineering and helping them get focused from first year itself.	3 days
8	All Final Years Students	FF2H	10th Sep, 2013	CVR College of Engineering	Pradeep Desu-HR Pocket Gems	Seminar on FF2H	1 day
9	III Year students	SAP Tech university ,2013 seminar	Aug,,2013	CVR College of Engineering	Rahul sachdev. Manager, Industry Academia Alliance	SAP	1 day
10	All third year students	session	August, 2013	CVR College of Engineering	Anil Nair	Addressing CAT / MBA Career opportunities 2015 Pass Outs	1 day
11	Faculty of I.T	Infosys Campus Connect Faculty Excellence Awards 2013	Aug 2013	Infosys campus, hyderabad	Dr. Sudheer Mr. Bhanu Prakash	Appreciation for faculties of Infosys and campus connect programme	1 day
12	All Third Year Students	Campus Recruitment Training (CRT)	May/June 2012	CVR College of Engineering	Campus connect faculty	CRT course offered by Infosys	8 weeks
13	All Third Year Students	Soft Skill Program	May 2012	CVR College of Engineering	Prem Prakash Dayal (Infosys)	Soft skills	1 day
14	All Final Year Students	Career launcher	May/June 2012	Infosys campus	Infosys	Infosys Campus Connect and Quant/Apt	25 days
15	139 Students and 8 Faculty	Workshop	Mar 2012	CVR College of Engineering	IBM TGMC Partner	TGMC	1 day

16	2nd and 3rd year Students (300 No's)	Infosys Spark Program	Feb 2012	Infosys campus	Infosys Trainer	Technical event	1 day
17	All 3rd Year Students 2013 - YOP	PAC Labs Online Practice Test	Feb 2012	CVR College of Engineering	PAC labs Trainer	Quant/Apt/Logical/Verbal/Domain	1 day
18	All Final Year Students	Infosys Soft Skills Training by Internal Faculties and Cube G Services	Aug. 2011	CVR College of Engineering	Infosys Trainers	Soft skills	7 days
19	All Final Year Students	Seminar	July 2011	CVR College of Engineering	Suresh – Infosys Trainer	Business Etiquette and Corporate Grooming	1 day
20	All Final Year Student	Infosys Campus Connect and Quant/Apt by Career Launcher	April - May 2011	CVR College of Engineering	Infosys Trainer	Quant/Apt	April 28 th 2011 to 21 st May 2011
21	All Final Year Student	TCS Pre Placement Talk	Nov 2010	CVR College of Engineering	TCS Partner	Pre placement talk	1 day
22	All Final Year Students	Persistent Pre Placement Talk	Oct 2010	CVR College of Engineering	Persistent Partner	Pre placement talk	1 day
23	All Final Year Students	Corporate - Soft Skills Training	Sept – Oct 2010	CVR College of Engineering	Mohd. Sirajuddin Junadi	Soft skills training	15 th Sept. 2010 to 28 th Oct. 2010

Student Participation/achievements in other colleges

Year	Participations/Achievements
2014-15	18
2013-14	25
2012-13	15
2011-12	21

Placement Cell organizes about 25 to 30 Technical Talks for the benefit of all students.

33. List the teaching methods adopted by the faculty for different programmes.

- Lecturing
- Tutorials
- Internal Quizzes
- Internal Tests
- Assignments
- Seminars
- Mini projects
- Technical paper publications and encouraging faculty.
- Major project
- Industrial visits
- Guest Lectures
- Every Class room has OHP and every department has at least two LCDs one fixed in seminar hall.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Department has PEOs and POs taking the feedback from stake holders and approved by College Academic Committee. NBA recommendation of PA are also considered.

There is annual assessment of PEO and Pos based on information obtained from the following tools. Every department of the college has a planned method of assessment of PEOs and POs based on weighted concept of each tool. Efforts are put in to analyze where exactly the system efficiency has to be improved.

Programme Educational Objectives

Program Educational Objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Program Educational Objectives (PEO's) offered by Information Technology

PEO 1	Graduates will acquire capability to apply their knowledge and skills to solve various kinds of computational engineering problems.
PEO 2	Graduates will be in a position to recognize and incorporate societal needs and practice their profession with high regard to legal and ethical practices
PEO 3	Graduates will be ready to work in projects related to complex problems involving multi disciplinary areas.
PEO 4	To evolve as resourceful engineers catering to global changes and engage in life-long learning.
PEO 5	To enable the students with required soft skills, that can be used in a pragmatic manner and excel in diverse environments in the competitive world.

Similarly Department has established Program Outcomes(POs) as furnished below:

PO1	Capability to design the computer software and hardware with the acquired knowledge of mathematics, probability & statistics, graph theory and logic.
PO2	Ability to analyze ,formulate and model problems using concepts of object oriented analysis and design and implement using c#, c++ and Java.
PO3	Ability to appreciate advanced algorithms aimed at organizing, analyzing

	and interpreting data coupled with computational intelligence.
PO4	Orientation towards research in niche areas like advanced architectures, mobile computing and cloud computing and network security.
PO5	An ability to conduct experiments to investigate complex problems and create models for solution.
PO6	Strong motivation towards creation and use of CASE tools opens source tools and technologies and contribute towards its development.
PO7	Capability to manifest personal and team software process and ability to function across multiple domains.
PO8	An understanding of professional, legal, and ethical issues and responsibilities as it pertains to computer engineering.
PO9	An ability to apply knowledge of local and global changes, analyze its impact on societal, legal and cultural issues related to the practice of computer science and information technology.
PO 10	An understanding of the engineering and management principles required for project and finance management and ability to carry out umbrella activities related to project management.
PO 11	Ability to communicate technical information in speech, presentation, and, in writing.
PO 12	Understanding the necessity, and, developing the ability to engage in lifelong learning.

For each subject Course Outcomes(COs) also are established

To illustrate, in B.Tech III year II Semester the course name is Computer Networks. The related Course Outcomes (Cos) are given below:

CO 1	Students will be able to visualize the seven layers of computer network with different kind of networks.
CO 2	Students will be able to understand the mapping of addressing and routing protocols.
CO 3	Students will be able to apply QOS parameters and evaluate the performance.
CO 4	Students will be able to develop new application with the underlying protocols of application layer.

Based on assessment made involving all tools, the following is the summary of assessments made for PEOs and Pos. Detailed calculations are available in department files.

Assessment of PEOs.

Program Educational Objective	PEO Attainment % level
PEO 1	76%
PEO 2	85%
PEO 3	80%
PEO 4	83%
PEO 5	84%

Assessment of Pos

Program Outcome	PO Attainment % level
PO 1	76%

PO 2	75%
PO 3	74%
PO 4	77%
PO 5	77%
PO 6	73%
PO 7	80%
PO 8	85%
PO 9	85%
PO 10	80%
PO 11	84%
PO 12	83%

After detailed analysis of the evaluation of attainment of POs, the following changes in the curriculum were proposed. These changes are proposed so that these will lead to both deliveries of course content and improvement in attainment of Program Outcomes. These changes are incorporated after due approval by the **Board of Studies (BOS)** of the programme.

Curriculum Improvements

Sno	Change description	Related POs	Evaluation factor taken into account	Resulting new/ modified courses
1	Splitting of the course Digital Logic Design and Computer Organization	4	Student Feedback and National level examinations	1. Digital Logic Design 2. Computer Organization
2	Splitting of the course C Programming and Data Structures	2,3	Analysis of placement data and End exam result evaluation	1. Problem Solving Through C 2. Data Structures through C
3	Introduction of the course Mobile Application Development:	4,9	Analysis of Industry requirements and Alumni feedback.	Mobile Application Development
Sno	Change description	Related POs	Evaluation factor taken into account	Resulting new/ modified courses
4	Splitting of the course Linux Programming	5,6	Analysis of Industry requirements and Alumni feedback.	1. Unix Shell Programming 2. Linux Programming
5	Up gradation of the course Mobile Application Development	4,7,9	Analysis of Industry requirements.	Mobile Application Development using Android.
6	Up gradation of Object Oriented Programming through Java:	2	Analysis of industry requirements	Object Oriented Programming through Java
7	Up gradation of Human Computer Interaction	2,11	Alumni feedback and industry requirements	Human Computer Interaction
8	Operating systems Moved from 3 rd Year I sem to 2 nd Year II semester	5,6	Course delivery dependencies for attainment of POs	Operating System
9	Modification of Data Mining and Data Warehousing course to Business Analytics	3,12	Infosys advise for inclusion business analytics as module at UG level	Data Ware Housing and Data Mining Course change

35. Highlight the participation of students and faculty in extension activities:

Students and faculty participates in various extension activities like:

- NSS: College has NSS unit approved by JNTU.
- Blood Donation camp: About 350 students participated in blood donation camp. It happens every year.
- 5K run: It was organized to inculcate voting awareness among public.
- Donated computers to schools and given training to teachers.

36. Give details of “beyond syllabus scholarly activities” of the department.**Availability of learning beyond syllabus contents and promotion**

- Identifying topics beyond syllabus and develop contents and modules
- College encourages students to develop modules. Students compete at various competitions exhibiting their modules and receive prizes.

The following are the students of IT branch who participated and won prizes:

Learning beyond the syllabus

S. No.	Name of Event	Month-year	Prize Winners
1	Technical Paper Presentation (Under ISTE)	February, 2010	I prize -NISHANTH. P M (IV Yr B. Tech.) II Prize --M. PAVAN CHANDRA, B. PRANATHI (II Yr B. Tech.) 3 rd Prize M.N.SRIKANTH (III Yr B. Tech.)
2	Won First prize for a paper on “Adaptive Cruise Control” at Gitam University.	2009	Mr. P.M. Nishanth Mr. P. Kaushik Mr. G. Thrishul Reddy
3	KRYPTOS, CVSR College of Engineering (AAGAMA-2011)	18 th 19 th Feb-2011	First Prize, Rishikesh Reddy, IV Year
4	Technical Paper Presentation at CVRCE (Under ISTE)	March 2011	First prize Praneeth. J III Year
5	Technical Paper Presentation at CVRCE(Under ISTE)	March 2011	II prize M. Pavan Chandra III Year
6	Technical Paper Presentation at National level Student Technical Symposium, ACE Engineering College, Hyderabad.	5 th & 6 th March, 2012	P.Ratnakar Babu III Year Won II Prize
7	International Conference on Electrical Engineering and Computer Science (ICEECS), Goa, India	May, 2012	P.Deepak Reddy Won First Prize K.Bala Subramanyam IV Year

Additional topics incorporated beyond syllabus by identifying deficiencies:

Additional Topics Year and semester wise**B. Tech. I Year- I semester**

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
Problem solving Through C	Inadequate lab sessions as per university time table	Extra labs are conducted

B. Tech. I Year- II semester

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
Data Structures Through C	Inadequate lab sessions as per university time table	Extra labs are conducted

B. Tech. II Year – I semester

S.No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Digital Logic Design	4	1		i)Use of FPGA's to implement real hardware designs. ii)Demonstrating hardware design tools for FPG
2	Data Structures Through C++	4	1	Ability to apply the concepts of object oriented analysis and design	Extra classes are taken to explore these features

B. Tech. II Year-II semester

Sl. No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Object oriented programming lab		3	Ability to apply the concepts of object oriented analysis and design	Updates from JDK 1.7 like Generic classes, enumerations, concurrent utilities are illustrated. Eclipse IDE is introduced.
2	Computer Organization	4	1	Orientation towards research in niche areas like advanced architectures.	Multicore related architectures of Optreon and Intel i7 are proposed to be covered

B. Tech. III Year-I semester

S. No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Principles of Programming Languages	4	1	Thorough understanding of formal language principles and compiler design	Case studies for different languages will be covered
2	Microprocessors and Interfacing	4	1	The expected outcome is clear understanding of advanced processors Interfacing with IO	Instruction set of ARM is covered

3	Microprocessors and Interfacing Lab	-	3	Understanding the processor hardware and interfacing with real world	Special kits are acquired to conduct the labs and to meet the outcomes.

B. Tech. III Year-II semester

Sl. No.	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
1	Web Technologies	4	-	PEO 2 PO 1,9	Configuration of JBoss server, Tomcat Server Eclipse IDE plugins
2	Wireless Networks and Mobile computing	3	1	PEO 1,3 PO 1,2,4	Information security issues in mobile computing Caching Metrics Task-aware computing: A new computing paradigm

B. Tech. IV Year-I semester

Sl. Assignments. & S No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
2	Human Computer Interaction	4	1	To design effective user interface to meet present IT applications	Integration of speech and image to make effective computer communication

Keeping the industry expectations in mind, the IT Dept instituted Tech Clubs at college level. Tech Clubs aim to provide hands-on exposure to students on various fields of Information Technology related to application Software, System Software and Embedded Software. In order to achieve this, various events are conducted ranging from tech talks by industry people, demonstration by faculty members to mini projects by students. To mention a few...

1. CIT (Certification in Information Technology) during 2010-11.

This program is the brain child of IIIT- Hyderabad under EQUITEC with CVRCE under MoU.

Faculty member Mr U. Chandrasekhar Rao of IT department underwent Two Month training, from 17-5-2010 to 10-7-2010 at IIIT-Hyderabad while staying in IIIT Campus during that program.

Learning by Doing:

A 60 day training programme aimed at enhancing 'Advanced Data Structures' programming skills and their applications in developing Search Engines using Java.

Table:

List of Students	Conducted by
08B81A1214,1227,1231,123,1236,1239,1241,1253,1258 08B81A1267,73,A6,A8B3,B7,90	Mr U. Chandra Sekhar Rao

1. Video Lecture Presentations

- Video lectures from MIT Open Courseware Lectures, NPTEL, and Google tech talks are presented to students.
- Video lectures on java developed by Stanford University are presented to II year IT students.

2. ADOBE FLEX Certificate Training Programme:

11 students of the IT branch attended Adobe flex workshop organized by the Adobe Team on 4th and 5th March, 2011 and all of them have received certificates.

3. Campus connect (in collaboration with Infosys)

Campus Connect comprises 5 modules namely ICS, OS, PST, P&T and RDBMS. Upon undergoing these modules students take two online exams one at the end of 3rd module and the other at the end of 5th module. This exam is set by Infosys and conducted by CVR College. After successfully completing these tests (with minimum 60% aggregate) students carry out- Integrated Development Project and Submit it to Infosys. The students get a Certificate from Infosys after covering these Modules. So far 8 batches have undergone this training and 480 students have received Certificates

37. State whether the programme / department is accredited / graded by other agencies. Give details:

Table I.2: NBA approvals

Year	Description
	NBA-AICTE Accreditation visits and accreditation granted, if any
2006-07	* The Accreditation Team has visited the College during 25 th to 27 th May, 2007. NBA-AICTE has issued orders in Order No.NBA/ ACCR-894/2007, Dt.12-09-2007, accrediting B.Tech. CSE, EEE, ECE & IT branches for a period of 3 years w.e.f. 12.09.2007.
2012-13	*The Accreditation Team has visited the College during 13 th to 15 th July, 2012. NBA-AICTE has issued order in Order File No.11-40/2010/NBA, Dt: January 29, 2013, accrediting B.Tech. CSE, EEE, ECE, IT & EIE branches for a period of 2 years.
2011-12 to 2013-14.	JNTUH has accorded autonomous status for a period of 3 years
201415 to 2019-2020	UGC, New Delhi has accorded Autonomy for 6 years
2014	UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC act dated 19 th June 2012.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

- IT Department is NBA accredited indicating the quality of education given to students.
- The Department has 3 Professors, 5 Associate Professors and 17 Assistant Professors, meeting the requisite ratio of 1:15 specified by AICTE.
- All the faculty members are well qualified, young, motivated and energetic teachers. The Department has rich experience of teachers drawn from reputed Industries like ECIL and Universities like Osmania and JNTU.
- The Department has 11 programmers to assist in the laboratories. All are either MCA's or B. Tech's.
- The average age group of staff in IT department is about 35 years which is desirable for best performance/output.
- The Department is well equipped with good laboratories and infrastructure, with intranet and internet facilities.
- The Department has a spacious Seminar Hall with LCD Projector.

- A good number of IT students are being placed in the IT and ITES sectors every year.
- A good number of IT students are pursuing higher education in reputed Universities in India and abroad.
- Faculty are active in research and improvement in qualification.

Weaknesses:

- Lack of adequate industry institute interaction.
- Needs PG course in IT department.
- Consultancy projects are to be improved.
- Workshops/international conferences are to be conducted.
- Needs interdisciplinary research.

Opportunities:

- IT tools are becoming available for Technology-Enhanced Learning, for widening the reach, and improving the effectiveness of Engineering Education.
- Alumni need to be explored.
- Establishing a R&D centre for encouraging students to do PhD in Engineering.
- To encourage industry oriented projects.

Challenges:

- In the emerging GATS scenario, Quality concerns need to be addressed urgently.
- Competition from international players and premium institutes.
- Increased seats in CSE in different colleges can affect IT intake..
- More awareness should develop among parents and students on the importance of IT in comparison with CSE

39. Future plans of the department:

The following laboratories are planned for augmenting instruction, research and consultancy.

1. Computer Forensics Research Laboratory.
2. Software Modeling and Testing Lab (SMT Lab)
3. Image Processing Research lab
4. Embedded Systems Labs with Embedded Vision and ARM cortex based embedded Lab
5. DSP processors Lab.
6. Cloud Computing Lab
7. Computer Vision Lab

E.7. MECHANICAL ENGINEERING

1. Name of the Department : Department of Mechanical Engineering

Year of Establishment: 2011

2. Names of Programmes /Courses offered (UG/PG/ M. Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc) : UG : B.Tech

3. Interdisciplinary courses and departments involved:

The following are the courses/subjects offered by other departments to the students of Mechanical engineering as per approved course structure.

S. No	Name of the subject	Year & Sem	Department Involved	Credits
1	English	I/I	H&S	4
2	Mathematics – I	I/I	H&S	5
3	Engineering Physics	I/I	H&S	4
4	Problem solving through ‘C’	I/I	CSE	3
5	Computer Programming lab	I/I	CSE	2
6	Engineering Physics lab	I/I	H&S	2
7	English language Communication skills lab -1	I/I	H&S	2
8	IT workshop lab	I/I	IT	2
9	Mathematics – II	I/II	H&S	5
10	Data Structures though ‘C”	I/II	CSE	3
11	Engineering Chemistry	I/II	H&S	4
12	Data Structures though ‘C’ lab	I/II	CSE	2
13	English language Communication skills lab - 2	I/II	H&S	2
14	Engineering Chemistry lab	I/II	H&S	2
15	Environmental Studies	II/I	H&S	3
16	Probability & Statistics	II/I	H&S	3
17	Electrical &Electronics Engineering	II/I	EEE	4
18	Electrical &Electronics Engineering lab	II/I	EEE & ECE	2
19	Verbal ability lab	II/I	H&S	1
20	Reasoning & Logic lab	II/II	H&S	1
21	Managerial Economics and	III/I	H&S	3

	Financial Analysis			
22	Advanced English communication & soft skills lab	III/I	H&S	2
23	Data Interpretation lab	III/I	H&S	1
24	Operations Research	III/II	H&S	3
25	Quantitative Methods lab	III/II	H&S	1
26	Instrumentation and Control systems	IV/I	EIE	4
27	Entrepreneurship (Elective)	IV/I	H&S	3
28	Intellectual Property Rights(Elective)	IV/I	H&S	3
29	Nanotechnology(Elective)	IV/I	H&s	3
30	Object Oriented Programming through C++(Elective)	IV/I	CSE	3
31	Data Base Management systems(Elective)	IV/I	CSE	3
32	Indian & International Business Environment(Elective)	IV/I	H&S	3
33	Instrumentation lab	IV/I	EIE	2
34	Reliability Engineering(Elective)	IV/II	EIE	3

4. Annual/Semester/Choice based credit system:

Choice based credit system has been introduced in the academic year 2015-16 after approval of Board of Studies and Academic Council of the college. As such B.Tech I year and M. Tech I year of 2015 Admission batch will follow CBCS. All the senior classes are in semester pattern as per their regulations.

5. Participation of the department in the courses offered by other departments:

S. No	Name of the subject	Departments Involved	Credits
1	Engineering Drawing	ECE,EEE,CSE,IT,EIE,Civil	4
2	Engineering Workshop lab	ECE,EEE,CSE,IT,EIE,Civil	2
3	Engineering Graphics –I	MECH	4
4	Engineering Graphics –II	MECH	2
5	Mechanics of Fluids & Hydraulic Machines lab	EEE, CIVIL	2

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Required as per norms of AICTE	Filled
Professors	3	5
Associate Professors	6	4
Asst. Professors	19	33
Total	28	42

*Keeping in view 1st year workload by Mechanical Engineering department to all branches

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil. etc)

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years
1	Dr. T.A Janardhan Reddy	Ph.D	Professor & HOD	Production engineering	35	6
2	Dr.S. Deva Prasad	Ph.D	Professor	Production management	18	-
3	Dr.G.V.Prasanna	Ph.D	Professor	Systems Technology	20	-
4	Dr.P. Uma Maheshwera Reddy	Ph.D	Professor	Manufacturing	13	
5	Dr.M. Venkata Ramana	Ph.D	Professor	Production Engineering	20	3 (Pursuing)
6	Mr. B. Appala Naidu	M.E	Assoc. Professor	Automation and Robotics	18	-
7	V. Rajender kumar	M.Tech (Ph.D)	Assoc. Professor	Thermal Engineering	24	-
8	Mokara Prem Swarup	M.Tech	Assoc. Professor	Industrial Engineering & Management	28	-
9	Mr.K.Naga Raja Rao	M.Tech	Associate Prof.	Thermal Engineering	30	-
10	Mr.P.V.Ramana	M.Tech (Ph.D)	Associate Prof.	Thermal Engineering	14	-
11	G. Mrudula	M.E (Ph.D)	Sr.Asst. Professor	Production engineering	7	-
12	Gayatri Vineela.M	M.E	Sr.Asst. Professor	Production engineering	12	-
13	S.Rakesh	M.Tech	Asst. Professor	Mechanical systems Design and Dynamics Control	5	-

14	D. Rambabu	M.Tech	Asst. Professor	Thermal Engineering	3	-
15	G. Bharath Reddy	M.Tech	Asst. Professor	Advance Manufacturing systems	3	-
16	G. Naveen Kumar	M.Tech	Asst. Professor	CAD/CAM	3	-
17	P Srinivas Reddy	M.Tech	Asst. Professor	Thermal Engineering	9	-
18	V. Sucharitha	M.Tech	Asst. Professor	CAD/CAM	6	-
19	Mr M Srinivas Reddy	M.Tech	Asst. Professor	Thermal Engineering	20	-
20	V Rahul	M.E	Asst. Professor	Manufacturing	2	-
21	T Dinesh Kumar	M.Tech	Asst. Professor	Thermal Engineering	3	-
22	Udaya Kiran	M.Tech	Asst. Professor	Applied Mechanics	1	-
23	M.V.B Krishnam Raju	M.Tech	Asst. Professor	Industrial Metallurgy	20	
24	P. Lava kumar	M.Tech	Asst. Professor	Materials Engineering	3	-
25	Ms.T.Gayathri	M.E.	Asst. Professor	Machine Design	1	-
26	Mr.S.Anand Kumar	M.Tech	Asst. Professor	Thermal Engineering	3	-
27	Mr.M.Kishore Kumar	M.Tech	Asst. Professor	Fluids & Thermal Eng.- IIT Guwahati	1	-
28	Ms.Nalli Ankitha	M.Tech	Asst. Professor	Thermal Engineering-	1	
29	Ms.G.Vanya Sree	M.Tech	Asst. Professor	Thermal Engineering-	1	
30	Mr.K.Srikanth	M.S.	Asst. Professor	Product Design- Dalarna University	7	
31	Mr.ALN Arun Kumar	M.E	Asst. Professor	CAD/CAM	1	
32	Mr.P.Raju	M.Tech	Asst. Professor	Materials Technology	4	
33	Ms.P. Bhargavi	M.Tech	Asst. Professor	CAD/CAM	3	
34	Mr.Srikanth Chillal	M.Tech	Asst. Professor	Machine Design	1	
35	Mr.Neeraj Kumar Jha	M.E.	Asst. Professor	M.E. (Tool Design	3	
36	Mr.K.Sriker	M.Tech	Asst. Professor	Engineering Design	1	

37	Mr.Lokeswar Patnaik	M.Tech	Asst. Professor	Tool Design	3	
38	Mr.P.Ravi Kumar	M.Tech	Asst. Professor	Machine Design	6	
39	Mr.Pathan Yasin	M.Tech	Asst. Professor	CAD/CAM	1	
40	Ms. B.Sravva Reddy	M.Tech	Asst. Professor	Tool Design	1	
41	Mrs.M.R.S.Rupa Sri	M.Tech	Asst. Professor	Automation	1	
42	Mr.Sunil Kumar	M.Tech	Asst. Professor	Tool Design	0.2	

8. Percentage of classes taken by temporary faculty – Program wise information

There are no temporary staff members. All faculty are regular staff.

9. Programme- wise Student Teacher Ratio: 15:1

10. Number of Academic support staff (Technical) and administrative staff:

	Sanctioned	Filled
Academic support staff (Technical)	10	10
Administrative staff	1	1

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project – wise: Two faculty

Funding agency	Project	Grants Received	Grant Sanctioned	Year of Grant
AICTE, New Delhi	Entrepreneurship Development Cell (EDC)	Rs 3.25 Lakhs	RS 4.5 Lakhs	2014

The following faculty are involved with ED Cell

1. Dr. T.A. Janardhan Reddy
2. Mr. P. Srinivasa Reddy
3. Ms. M. Gayatri Vineela

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Entrepreneurship Development Cell funded by AICTE – ₹ 3.25 Lakhs out of Rs 4.5 lakhs.

13. Research facility/ centre with

- o State recognition
- o National recognition
- o International recognition

This is a new department established in 2011. Any recognition can be obtained only after two batches leave the department. Labs are well developed keeping in view that they meet the research needs and M.Tech Programmes. The total investment made for all labs is Rs. 350 Lakhs.

14. Publications

The following are the details of publications of the teaching staff in the department.

Academic Year: 2015-16 (Ongoing)

S. No	Title of publication	Authors as given in the publication	Reference of the publication
1	Comparison of Threaded and unthreaded tool pin profiles in friction stir welding using ANSYS	V. Sucharitha V. Tirumal Reddy P. Bhargavi	International Journal of Current Engineering & Technology, 13 -18, Vol -6, No. 1 (Feb – 2016)
2	Parametric Optimization of CO ₂ molding process for maximum mould hardness.	Dr. M. Venkata Ramana	International Journal of Engineering, Research & Technology, Vol5, Issue 4, January 2016.
3	Parametric Optimization of CO ₂ mold made for better collapsibility	Dr. M. Venkata Ramana	International Journal of Engineering and Research, Vol5, Issue 2, January 2016.
4	Process Parametric Optimization of CO ₂ mold process for better permeability	Dr. M. Venkata Ramana	CVR Journal of Engineering and Research, Vol9, December 2015.
5	Analysis of Stress Concentration on Isotropic and Orthotropic plates with center circular hole with uniformly distributed load.	Ms. T. Gayathri Ms. M. Gayatri Vineela Dr. T. A. Janardhan Reddy	5 th International Conference on Material Processing and Characterization with Elsevier, GRIET, Hyderabad
6	Impact Behavior of Fibre Reinforced Composites with change in Fibre Orientation	Ms. M. Gayatri Vineela Ms. T. Gayathri Dr. A. Krishnaiah	International Journal of Current Engineering and Technology, accepted on 24/01/2016

Academic Year: 2014-15

S No.	Title of publication	Authors as given in the publication	Reference of the publication
1	Outcome Based Education – Some Initiatives	Dr. T. A. Janardhan Reddy Mr. P. Srinivasa Reddy	4 th World Congress on Engineering & Technology, at Wuhan University, WUHAN, People's Republic of China.
2	Dynamic Analysis of FRANCIS Runner	Mr. P. Sadanandam	International Journal of Mechanical Engineering (IJMEQN – 201401)(E – ISSN 2319 -2240; P- ISSN 2319 -2259), Pages 1 – 10, Vol – 3 Issue 6, November - 2014.

3	Dynamic Response of the Flexible Links and Joints of a Robot	Mr. P. Srinivas Reddy Dr. T. A. Janardhan Reddy K. Chandrasekhar	International Journal of Current Engineering and Technology (E – ISSN 2277 – 4106; P – ISSN 2347 – 5161), pages 3104 – 3110, Volume 4, No.5, October 2014.
4	Experimental Investigation on Process Performance of Powder Mixed EDM OF AISI D3 Steel and EN -31 Steel	Mr. G. Bharath Reddy Mr. G. Naveen Kumar Mr. K. Chandra Sekhar	International Journal of Current Engineering and Technology in June, 2014.
6	Dynamic Response of NACA 0018 FOR Car Spoiler Using CFRP Material	Mr. G. Naveen Kumar Mr. G. Bharath Reddy Mr. K. Chandra Sekhar	International Journal of Current Engineering and Technology in June, 2014.
7	Design of Blade for a Wooden Small Scale Wind Turbine for Domestic Purpose	Mr. K. Chandra Sekhar Mr. G. Naveen Kumar Mr. G. Bharath Reddy	International Journal of Current Engineering and Technology in June, 2014.
8	Investigation of Separator Parameters in Kalina Cycle Systems	K Deepak , A V S S K S Gupta , T Srinivas , S V Prabhakar Vattikuti , S Deva Prasasd	Int J of Current Engineering and Technology, Special Issue-2 (Feb 2014), Pages : 496-500, DOI:http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.93.
9	Parametric investigation of the combined effect of Gear parameters on Tangential Force and Dynamic Tooth Load of 40 Ni2 Cr1 Mo 28 Steel Helical Gear,	B.Venkatesh , S.V.Prabhakar Vattikuti , S.Deva Prasad , V .Kamala And A.M.K.Prasad	Int J of Current Engineering and Technology, Special Issue-2 (Feb 2014), Pages : 687-691 , DOI:http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.130.

Academic Year: 2012-13

S No.	Title of publication	Authors as given in the publication	Reference of the publication
1	Effect of Friction Factor on Wrinkling and Fracture Limits in Deep Drawing of Cylindrical Cup	R. V .Reddy. T .A .Janardhan Reddy G.C.M Reddy	International Journal of Engg. Research and Technology (IJERT).
2	Effect of Die Corner Radius and Punch Corner Radius on Wrinkling and Fracture Limits in Deep Drawing of Cylindrical Cup	R. V .Reddy. T .A .Janardhan Reddy G.C.M Reddy	International Journal of Emerging Technology and Advanced Engineering (IJETAEE), Vol.3, issue 3, March 2013.
3	Studies on Wrinkling and Fracture Limits in Deep Drawing of Cylindrical Cup	R. V .Reddy. T .A .Janardhan Reddy G.C.M Reddy	International Journal of P2P Network Trends and Technology, vol.3.,issue 1-2013,pp.20-24.

4	Study on the mechanism of flow forming : (AREVIEW)	G. Venkateshwarlu, K. Ramesh Kumar T.A. Janardhan Reddy G. Gopi	RIST, ICAEM-2013 2 ND International conference on Advancement in Engineering and Management, 27&28 Feb2013.
5	Supply Chain Management in Indian context	M.V. Ramana Reddy T. Balaji Gupta	6 th international conference on Contemporary Business” 8 th – 10 th November 2012” IIT Delhi
6	Investigation on Mechanical and Micro Structural Behaviour of Friction Stir Weldments of ZE42 Magnesium Alloy	Mrudula. G M.Sreenivasulu Dr. A. Krishnaiah	International Journal of Emerging Technology and Advanced Engineering (IJETAEE), Vol.2, Issue 8, August-2012
7	RFID: Technology, issues, applications and growth	T. Balaji Gupta, M. Sreenivasa Rao	International Journal of Engineering Research & Technology (IJERT), Vol. 1, Issue 5, July-2012

Academic Year : 2011-12

S No.	Title of publication	Authors as given in the publication	Reference of the publication
1	Product Design Optimization Using Structural Reliability and safety Index Sensitivity	P. Bhattacharjee K. Ramesh Kumar T. A. Janardhan Reddy	Journal of Operations Research “OPSEARCH” Vol 48(2). 2011, pp: 87-95 Springer
2	Structural Safety Assessment of a Pressure Vessel Using Performance Functions Approximations	P. Bhattacharjee K. Ramesh Kumar T. A. Janardhan Reddy	International Journal of Performability Engineering Vol.7,No.4, July2011,pp:359-370.
3	Structural Reliability and Integrity Assessment of a Thin Maraging Steel Cylindrical Pressure Vessel	P. Bhattacharjee K. Ramesh Kumar T. A. Janardhan Reddy	SRESA Journal of Life Cycle Reliability and Safety Engineering . Vol.1 issue 4. 2012, pp:26-32
4	Structural Safety Evaluation Using Inverse Measure Approach	P. Bhattacharjee K. Ramesh Kumar T. A. Janardhan Reddy	International Journal of Performability Engineering . Vol.8, No.5, Sep 2012. pp: 507-513
5	Effect of various factors on the wrinkling defect of cylindrical deep drawing components	R. V. Reddy T. A. Janardhan Reddy G. C. M. Reddy	International Journal of Engg. Trends and Technology (IJETT), vol.3, issue 1, Jan-Feb 2012, pp.53-58

6	Optimization of blank holder force to eliminate wrinkling, thinning and fracture of cylindrical cups in deep drawing process	R. V. Reddy T. A. Janardhan Reddy G. C. M. Reddy	International Journal of Engg. Trends and Technology(IJETT), vol.3, issue 5, Sept.-Oct.2012, pp. 669-676.

Academic Year : 2010-11

S No.	Title of publication	Authors as given in the publication	Reference of the publication
1	Optimization technique for increasing formability of high strength steels with blank holder force control using FEA	R. V. Reddy T. A. Janardhan Reddy G. C. M. Reddy	Manufacturing Technology Today, December 2011, pp.7 - 11.
2	Reliability design Optimization for aerospace product an integrated approach	P. Bhattacharjee K. Ramesh Kumar T. A. Janardhan Reddy	International Journal of Systems Assurance Engineering and Management, Volume 1, issue1, February 2010.

Publications in Journals/Conferences

Academic Year	International Journals	National Journals	Conferences
2015-2016	4	1	1
2014-2015	9	-	3
2012-2013	5	-	2
2011-2012	5	5	-
2010-2011	1	1	1

Text Books

Academic Year	Title	Status
2013-2014	Production Drawing Practice By P.N Reddy , T.A.J Reddy and C.S Rao	Under Revision for 2 nd Edition
2012-2013	Deva Prasad S, Multi-Objective Flow shop Scheduling: A Genetic Algorithmic approach , LAP Lambert Academic Publishing.	ISBN-10: 3659239860, ISBN-13: 978-3659239861.

15. Details of patents and income generated : ---

16. Areas of consultancy and income generated: ---

- Manufacturing for other departments – Rs 6,300/-
- Conducting workshops on Entrepreneurship – No Profit – No Loss

This department is a newly established department in 2011. First batch will be leaving the college in May 2015. However, department laboratories are well developed and suitable enough to meet the requirements of M.Tech also. Keeping in view the available facilities, department is in contact with organizations like BHEL, Praga Tools, Central Institute of Tool Design for possible areas of consultancy. Being a new department, it takes some more time to organize activities of consultancy.

17. Faculty recharging strategies are:

- Invited Guest Lectures
- Organizing in house workshops
- Faculty Development Programs

- d. Providing incentives for those pursuing Ph.D.
- e. Providing incentives for publishing papers
- f. Sponsoring for outside workshops
- g. Sponsoring for national and international conferences.

The department has been active in the recharging strategies. It has been organizing a number of workshops, guest lectures, sponsoring teachers etc. Details are furnished at item 32 and also available in the department file.

Student Projects

- percentage of students who have done in-house projects including interdepartmental 25%
- percentage of students doing projects in collaboration with industries/institutes 75%

18. Awards /recognitions received at the national and international level by

- Faculty
- Doctorial/post doctoral fellows

Department of Mechanical Engineering is a new department with 2nd batch now in final year.

19. Students Seminars/Conferences/workshops organized and the source of funding (national/international) with details of outstanding participants if any.

Title of the activity	Subject	Date from- to (Latest first)	Level (Regional / National / International)	Name of external body involved, if any	Source of funds	Amount (Rs)
Entrepreneurship Awareness Camp	Entrepreneurship	19/01/2016 – 21/01/2016	Intra college	Osmania University	College funds	37000
SAE Club Inauguration & Automotive Mechanics	Automobile Engineering	19/9/14 to 20/9/14	Intra college / Regional	SAE India & Robosapiens	Students Contribution & College funds	50,000
Entrepreneurship Awareness Camp	Entrepreneurship	4/09/2014 to 6/09/2014	Intra college	Osmania University	College funds	28,000
ROBO GRAVITY	Robotics	28/02/14 to 01/03/14	Intra college	IIT, Mandi and ABLab Solutions	Students Contribution & College funds	40,000
The Science of Aircraft	Aerospace	23/01/14 to 25/01/14	Intra college	TERA INC.	College funds	26,000
Engineering Research Methodology	Research methodologies	17/01/14 to 18/01/14	Intra college	OU, DMRL, UOH	College funds	20,000

Entrepreneurship Awareness Camp	Entrepreneurship	19/09/13 to 21/09/13	Regional	Osmania University	College Funds	28,000
Learning Outcomes	Learning Outcomes of Engineering Students	16/3/13	Regional	Ramky group	College Funds	5,000
CAD/ CAM for Enhanced Quality	CAD/CAM	21/2/13 to 23/2/13	Regional	Osmania University, DRDL, NIT - Warangal	College Funds	22,000
Entrepreneurship Awareness Camp	Entrepreneurship	20/12/12 to 22/12/12	Regional	Osmania University	College Funds	28,000
Entrepreneurship Awareness Camp	Entrepreneurship	2/2/12 to 4/2/12	Regional	Osmania University	College Funds	25,000

20. Students profile course-wise for the year 2015 – 2016 to 2011-12

Name of the course B.Tech	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2015-16 (B.Tech)	Allotted by EAMCET Convener, nominated by Govt. of AP and TS based on Rank in EAMCET Qualifying exam	198	42	In I Year	
2014-15 (B.Tech)		197	43	In II Year	
2013-14(B.Tech)		92	28	In III Year	
2012 – 13 (B.Tech)		45	10	Will receive degree in May 2016. Information does not arise	
2011 -12(B.Tech)		46	13	93.4	100

21. Diversity of students

Name of the course	% of students from the college	% of students from the state	% of students from the other states	% of students from other countries
B.Tech I Year	-	100	-	-
B.Tech II Year	-	100	-	-
B.Tech III Year	-	100	-	-
B.Tech IV Year	-	100	-	-
-	-	-	-	-

22. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations?

3 students cleared PGECET for M. Tech,
30 Students have scored GRE/ TOEFEL for MS

} Among first batch passed out in 2015.

23. Student progression

Student progression	Percentage against enrolled
UG to PG	33
PG to M.Phil.	-
PG to Ph.D	-
Ph. D to Post-Doctoral	-
Employed - Campus selection - Other than campus selection	11 members through campus selection
Entrepreneurs	-

24. Diversity of staff

Percentage of faculty who are graduates	
Of the same parent university	38 %
From other universities within the state	30 %
From other universities from other states	32 %

25. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

Department started functioning from 2011-12.

Ms. G. Mrudula, Sr. Asst. Prof. registered for Ph. D from Osmania University in the year 2013.

Mr. G. Naveen, Asst. Prof. registered for Ph. D from BITS – Pilani, Hyderabad campus in the month of January, 2016.

26. Present details about infrastructural facilities

a. Library	Total number of titles:589
b. Internet facilities for staff and students	8 terminals for faculty, lab facility for students
b. Total number of classrooms	11
c. Class rooms with ICT facility	2
d. Students laboratories	
• Drawing labs (3)	
• Engineering Workshop	
• Metallurgy and Material Science Lab	
• Mechanics of solids lab	
• Production Technology lab	
• Mechanics of Fluids and Hydraulic Machines lab	
• Thermal Engineering lab	
• Machine tools lab	
• Metrology lab	
• Heat Transfer lab	
• Team Projects lab	

- Computer Aided Design & Computer Aided Manufacturing lab(CAD/CAM lab)
- e. Research laboratories
 - i. CAD/CAM lab
 - ii. Advanced Manufacturing lab

27. Number of students of the department getting financial assistance from college.

Course Year	No. of Students Availd Financial Assistance from State Govt.				
	2015-16 (Avalied)	2014-15 (50% Yet to be received)	2013-14 (Avalied)	2012-13 (Avalied)	2011-12 (Avalied)
I Yr.	96	84	52	20	25
II Yr.	87	51	20	25	-
III Yr.	51	20	25	-	-
IV Yr.	21	25	-	-	-

28. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Assessment is being carried for demand survey to offer M.Tech in CAD/CAM. Department is preparing proposals to start M.Tech in CAD/CAM shortly.

29. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching- learning evaluation? If yes, how does the department utilize it? **YES**

The Mechanical Engineering department takes feedback from respective faculty and used

- To fill the gaps in the academic curriculum in line with the recent advances and industrial needs.
- To find the need for including and designing new courses to address the above differences.
- To identify the shortfalls in the teaching learning process

- b. Students on staff, curriculum as well as teaching – learning evaluation and what is the response of the department to the same? **YES**

Feedback collection process: The feedback Proforma is standardized duly considering inputs from faculty and guidelines of the university. The feedback is taken at 4th week of commencement of semester and at 15th week of semester. The feedback is collected by the in-charge and other than the class teacher.

Percentage of students participating: 75%

Specify the feedback analysis process:

The Feedback is analyzed manually.

The core metric derived out of the analysis process is the mean of average of the rating. The metric accounts for – The basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage, Clarity of expression, teachers command over the subject, regularity of the student and overall opinion.

Basis of reward / corrective measures, if any:

- o A Bench of mark of 75% grading is adopted. Faculty scoring 65 to 75% are individually counseled by the Head of Department.

- o Faculty scoring 55 to 65 % are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. This has helped many junior faculty members to improve, through regular interaction with the Associate Professors.
- o Faculty scoring less than 50% is taken as serious cases for review, for one more semester.
- o There are few instances of not much of an improvement even after two years such people are put for lab instruction / tutorial for one more year. Detailed analysis sheets are available with the departments.

Performance is measured based on:

35 % (Thirty Five percent) for feedback

35 % (Thirty Five percent) for Examination Results

20% (Twenty Percent) for Research & Development (R & D) and

10% (Ten Percent) for contribution other than teaching.

Corrective measures:

- Counseling by Head of Department/ close monitoring and interaction by the senior faculty member. Change of subject under special cases. Psychology of batch of students etc. considered for corrective measures.
- Adequate time is given for faculty members to strive for expertise.

Number of corrective actions taken in the last three years:

- Specific remarks of the Head in few cases based on consistently unsatisfactory performance are annually viewed for remedial measures
- Where the feedback is not good, teaching load is reduced.
- No staff member is given more than two subjects in a semester.
- Corrective measure - giving more laboratory classes /Assistance under senior Professor.
- Freshly recruited faculty is given theory, only, after one year.
- Consistently poor performance for 2 to 3 years is viewed seriously in service matters.
- There are very few cases involving termination of service.

- c. Alumni and employers on the programmes and what is the response of the department to the same?

The department introduced greater practical component in learning through a new lab called “Team Projects Lab” which involves a fabrication / demonstration on the basis of their I and II years of Engineering studies. Student’s parents appreciate these projects. These projects usually win prizes in inter – department demonstration.

31. List the distinguished alumni of the department: Department started functioning from 2011 – 12 and only one batch has left in 2015.

32. Give the details of student enrichment programmes (Special lectures/workshops/seminar) with external experts.

Special Lectures

S.No	Topic	Date From /To	Resource person
1	A Sustainable Future Environment	11/11/2011	Prof. B.G Krishna Reddy
2	Nano-materials : Wonders of science and technology	16/08/2012	Dr. B.V Reddi

3	3D Printing	24/09/2014	Mr. C. Somasekhar and Srinivasan Ramanan from Open Brick Systems Pvt Ltd
4	Recent Developments in Cutting Tools	24/09/2014	Mr. S.K.L.N. Prasanna, Officer – Training & Communication (Technical), Guhring India Pvt. Ltd
5	Retrofitting of Automotive Engines	10/3/2015	Y. Vijaya Kumar, Ex- Director, APSRTC
6	Geometrical Dimensions and Tolerances	23/02/2015	Mr. G.V.N. Murthy from HMT
7	Manufacturing Techniques used in Aeronautical Applications	22/03/2015	Dr. John Rozarie Jegaraj, Scientist, DRDL, Hyderabad
8	Thermal Power Plants	21/08/2015	C. Radha Krishna, Project Director, TSGENCO

Workshops

S.No	Title of the activity	Date from- to (Latest first)	Name of by external body involved, if any
1	Entrepreneurship Awareness Camp	19/01/2016 to 21/01/2016	Osmania University
2	SAE Club Inauguration & Automotive Mechanics	19/09/2014 to 20/09/2014	SAE India & Robosapiens
3	Entrepreneurship Awareness Camp	04/09/2014 to 06/09/2014	Osmania University
4	ROBO GRAVITY	28/02/2014 to 01/03/2014	IIT, Mandi and ABLab Solutions
5	The Science of Aircraft	23/01/2014 to 25/01/2014	TERA INC.
6	Entrepreneurship Awareness Camp	19/09/2013 to 21/09/2013	Osmania University
7	Learning Outcomes	16/03/2013	Ramky group
8	CAD/ CAM for Enhanced Quality	21/02/2013 to 23/02/2013	Osmania University, DRDL, NIT - Warangal
9	Entrepreneurship Awareness Camp	20/12/2012 to 22/12/2012	Osmania University
10	Entrepreneurship Awareness Camp	02/02/2012 to 04/02/2012	Osmania University

33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and Black board teaching -60%
- Audio Visual Presentations - 20%
- Industrial visits - 5%
- Specific lab demos - 15%

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Explanation in the class room with reference to real world examples.
- Demonstrations in labs and campus
- The program educational objectives are monitored by examining direct and indirect assessment tools. Performance of students in
- The internal exams
- Assignments
- Tutorials
- Quiz test
- Seminar presentation
- End semester examinations
- Learning outcomes are monitored based on
- End examination performance
- Practical projects executed
- Skills in presenting seminars
- Learning aptitude based on mini projects and projects completed
- Evaluating the term paper assignment
- Feedback from students
- Placements, etc.
- Because of autonomous status, the college has the opportunity of incorporating the suggestions from stakeholders in the revision of syllabus and course structure.

35. Highlight the participation of students and faculty in extension activities.

Industrial visits / Mini projects / Seminars which are compulsory
NSS / EDC / Blood donation / Swatch Bharath / Social Welfare Projects are continuously encouraged. Blood donation camps conducted by College every year has received special appreciation from the Governor of Telangana by awarding a Memento.

36. Give details of “beyond syllabus scholarly activities” of the department.

- EDC competitions: Best Business Idea competition on presenting feasible business ideas (Enterprise Promotion- written proposal) and Poster Presentation on the theme of Entrepreneurship are held for the students.
- Team Projects lab: Students are encouraged to take up a hands on project Third year second semester and build a prototype/model based on the concepts learnt by them in their previous semesters.
- CIENCIA - technical fest of the college.
- Technical papers are presented by the students in the conferences held at other institutions.
- Term paper presentation by students on topics of their choice.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Eligibility of the department is only from 2016-17 when two batches complete B.Tech.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- ✓ Faculty from reputed institutions with excellent academic background, teaching and industrial experience.
- ✓ Availability of State-of-art laboratories.
- ✓ Committed faculty with efficient teaming up skills.
- ✓ Eminent professors from the reputed universities associated with the department.
- ✓ Frequent organization of Guest lectures and Workshops on on-going projects by academicians from IITs, NITs, BITS, Universities and Industries.
- ✓ Industries expert on Board of Studies.

Weakness

- ✓ Students are overloaded with 34hours of instruction per week having less time for extracurricular activities.
- ✓ Non availability of faculty members at the associate professor level.

Opportunities:

- ✓ To offer quality education and improve the work productivity of the students to make them better employable.
- ✓ Encouragement to faculty to pursue research by applying for sponsored projects funded by AICTE, DST, APCOS and DRDO.
- ✓ To apply for funding from World Bank sponsored agencies like TEQIP.
- ✓ To generate revenue by offering testing and consultancy services.
- ✓ To offer flexible curriculum to suit the varying intellectual levels of the students.
- ✓ To attract better quality students to take up admission.
- ✓ Formation of strong Alumni.

Challenges:

- ✓ Faculty retention.
- ✓ Competition from other leading institutions with in the state.
- ✓ Industry and Institution interaction.
- ✓ Getting sponsored projects from industries.

39. Future plans of the department.

- To get accredited by NBA as soon as the department gets the eligibility in 2016-17.
- To initiate M.Tech programme in Computer Integrated Manufacturing (CIM), Advanced design and Manufacturing and Thermal Engineering.
- To establish Research center of Advanced Manufacturing and CAD/CAM.
- To offer consultancy services in the field of Mechanical Engineering.
- To offer community services to the nearby villages through providing basic amenities to local schools(like Benches and Black Boards)
- To increase R&D activities.
- To improve the qualification of the faculty by awarding incentives and sponsoring for Ph.D.
- To motivate the students towards entrepreneurship.
- To have MOUs with manufacturing industries and research laboratories.
- It is planned to develop a sheet metal fabrication shop in the department workshop for manufacturing and supplying school benches (with MS pipes and Sheet Metal) for rural schools on charity as a social service mission.
- To pursue a program to secure partnership in department of industries (MSME), Govt. of India as industrial partner (IP) so that the college can develop enterprises based on new technologies identified by students/teaching staff.

E.8. HUMANITIES & SCIENCES DEPARTMENT

1. **Name of the Department & its year of establishment**
Department of Humanities & Sciences
Year of Establishment : 2001
2. **Name of Programmes/courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D. etc.)** All Humanities and Sciences subjects for B. Tech in CSE, Civil, ECE, EEE, EIE, IT and Mechanical Engineering streams are offered.
3. **Interdisciplinary courses and Departments involved**
Not Applicable
4. **Annual/Semester/Choice based credit system**
Semester system with credits for each subject as per curriculum. For all the four years Choice Based Credit System has been implemented in the academic year 2015-16, after approval of Board of Studies and Academic Council. B.Tech I year and M.Tech I yr. of 2015-16 admission batch have CBCS All senior classes will follow semester pattern as per their course structure during 2015-16.
5. **Participation of the Department in the courses offered by other departments**
The Department comprises following streams
 - English
 - Mathematics
 - Physics
 - Chemistry
 - Environmental Studies
 - Management Science

S.No.	Stream	Year/Semester	Subject
01.	English	I-Year/I-Sem	English Language
		I-Year/I-Sem	English Language Communication Skills Lab-I
		I-Year/II-Sem	English Language Communication Skills Lab-II
		II-Year/I-Sem	Verbal Ability Lab
		II-Year/II-Sem	Reasoning and Logic Lab
		III-Year/I-Sem	Advanced English Communication Skills Lab
02.	Mathematics	I-Year/I-Sem	Mathematics-I
		I-Year/II-Sem	Mathematics-II
		I-Year/II-Sem	Computational Mathematics
		I-Year/II-Sem	Computational Mathematics Lab
		II-Year/I-Sem	Mathematics-III
		II-Year/I or II-Sem	Probability and Statistics
		III-Year/I-Sem	Operations Research
		III-Year/I-Sem	Data Interpretation
		III-Year/I-Sem	Quantitative Ability
03.	Physics	I-Year/I or II Sem	Engineering Physics/Advanced Physics
		I-Year/I or II Sem	Physics Lab
04.	Chemistry	I-Year/I or II-Sem	Engineering Chemistry
		I-Year/I or II-Sem	Chemistry Lab

05.	Env. Studies	II-Year/I or II-Sem	Environmental Studies
06.	Management Science	III-Year/I-Sem	Managerial Economics & Financial Accounting (MEFA)
		IV-Year/II-Sem	Management Science
		IV-Year/	Entrepreneurship Intellectual Property rights (Elective)
		IV-Year	Indian & International Business Environment((Elective)

6. Number of Teaching Posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

The number of teaching posts is decided as per the work load requirements in different subjects. More over this is a supporting Department. When strength of this Department is added to the overall faculty strength in the College, the teacher student ratio of 15:1 is fulfilled. The number of faculty members is given subject wise in the following table:

Subject	No. of Professors	No. of Associate Prof.	No. of senior Assistant Prof.	No. of Assistant Prof.
English	---	05	---	12
Mathematics	02	05	---	13
Physics	02	02	---	9
Chemistry	01	---	---	10
Management Science	---	04	01	02
Environmental Studies	---	---	---	04
Total:	05	16	01	50

7. Faculty Profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)

Faculty members: The Humanities & Science Department has a rich blend of experienced faculty members that have a vast professional experience and fresh breed of young teachers. The table below is a list of faculty members in different streams along with their qualifications and other details. There are 16 teachers with Ph.D qualification and many more are working for obtaining Ph.D degree. The list below gives details of the faculty members in the Department.

S.No	Name of the faculty member	M/F	Designation	Qualification	Specialization	No. of years of experience
1.	Dr.E.Narasimhacharyulu	M	Prof. & Head	M.Sc; Ph.D	Physics	40
2.	Dr.P.Veeresham	M	Professor & COE	M.Sc; Ph.D	Physics	33
3.	Mr.Raghavendra Kulkarni	M	Assoc. Professor	M.Sc, M.Phil,B.Ed.(Ph.D)	Physics	15
4.	Ms. Poornima B. Shetty	F	Asst. Professor	M.Sc.	Physics	07
5.	Dr. V. Seetha Rama Raju	M	Assoc. Professor	M.Sc, Ph.D.	Physics	08

6.	Mr. Sheik Ahammed	M	Asst.Professor	M.Sc.(Ph.D.)	Physics	06
7.	Mr. R. Subba Rao	M	Asst.Professor	M.Sc.	Physics	06
8.	Mr. K. Satish	M	Asst.Professor	M.Sc.	Physics	03
9.	Mr. V. Suryanarayana	M	Asst.Professor	M.Sc.	Physics	11
10.	Ms. G. Alekhya	F	Asst.Professor	M.Sc.	Physics	02
11.	Ms. S. Sindhura	F	Asst.Professor	M.Sc.	Physics	04
12.	Mr. G. Ramesh	M	Asst.Professor	M.Sc, M.Tech.,NET Qualified	Physics	1
13.	Mr Y.Kiran	M	Asst.Professor	M.Sc, B.Ed	Physics	7
14.	Dr. M. Krishna Reddy	M	Professor	M.Sc, Ph.D.	Statistics	38
15.	Dr. K. Satyanarayana	M	Professor	M.Sc, Ph.D.	Mathemati cs	42
16.	Dr. Rafiuddin	M	Assoc. Professor	M.Sc, Ph.D.	Mathemati cs	25
17.	Dr. D. Shankaraiah	M	Assoc. Professor	M.Sc,M.Phil,Ph.D.	Mathemati cs	17
18.	Dr. G. Sreedhar Sarma	M	Assoc. Professor	M.Sc,M.Phil,Ph.D.	Mathemati cs	11
19.	Mr. V. Ramakrishna	M	Assoc. Professor	M.Sc,M.Phil.(Ph.D)	Mathemati cs	16
20.	Mr. Y. Srikanth Mahadev	M	Assoc. Professor	M.Sc.,SET Qualified	Mathemati cs	15
21.	Dr. G. Mallikarjun Reddy	M	Asst.Professor	M.Sc.,M.Phil.,Ph.D	Mathemati cs	16
22.	Dr. J. Ramesh Babu	M	Asst.Professor	M.Sc.,M.Phil.,Ph.D	Mathemati cs	14
23.	Mr. M. Nutan Kumar Reddy	M	Asst.Professor	M.Sc,B.Ed, SET Qualified	Mathemati cs	8
24.	Mr. G. Narender	M	Asst.Professor	M.Sc.,SET Qualified(Ph.D)	Mathemati cs	12
25.	Ms. V.V.L Deepthi	F	Asst.Professor	M.Sc. M.Phil, B.Ed	Mathemati cs	8
26.	Mr. C. Ravi Kumar	M	Asst.Professor	M.SC	Mathemati cs	8
27.	Ms. S. Indira	F	Asst.Professor	M.Sc. M.Phil,	Mathemati cs	15
28.	Mr. R. Gautham Goud	M	Asst. Professor	M.Sc.,(Stat.)SET Qualified	Statistics	13
29.	Mr. B. Vittal	M	Asst.Professor	M.Sc.,(Stat.)SET Qualified	Statistics	9
30.	Mr. P. Sai Shankar	M	Asst.Professor	M.Sc.,(Stat.)SET Qualified	Statistics	2
31.	Mrs.V. Swapna	F	Asst.Professor	M.Sc.(Ph.D)	Statistics	10
32.	Mrs. A. Shailaja	F	Asst.Professor	M.Sc(Stat.)	Statistics	7
33.	Mr. B.N.V. Uma Shankar	M	Asst.Professor	M.Sc,M.Phil	Statistics	10
34.	Ms. Vanitha Singireddy	F	Assoc. Professor	M.A.,M.Phil., PGDCA(Ph.D)	English	23
35.	Ms. Kalavathi Mallaiah	F	Assoc. Professor	M.A.,M.Phil.PGCT E	English	14

36.	Ms. Richa Dheer	F	Asst.Professor	M.A.PGDTE	English	23
37.	Ms.B.Bhawani	F	Assoc. Professor	M.A.,M.Phil.PGDE S	English	23
38.	Mrs. K. Bhanu Rekha	F	Assoc. Professor	M.A.PGDTE	English	19
39.	Mr. Samuel C.	M	Asst.Professor	M.A.SET Qualified	English	6
40.	Mr. R. Tirumala	M	Asst.Professor	M.A.	English	13
41.	Mr. S. Upendar	M	Asst.Professor	M.A.,B.Ed.SET Qualified	English	2
42	Ms. G. Sai Lakshmi	F	Asst.Professor	M.A.	English	4
43	Mr. A. Lawrence Raj	M	Asst.Professor	M.A.	English	17
44	Dr. T. Hymavathi	F	Assoc. Professor	M.A.,Ph.D.	English	27
45	Dr. Jaya Verma	F	Asst.Professor	M.A.,M.Phil.,Ph.D.P GDTE, M.A. Linguistics	English	8
46	Mr. K. Murali	M	Asst.Professor	M.A.,B.Ed.	English	10
47	Mr. C. Chandra Shaker	M	Asst.Professor	M.A.,M.Ed.PGCTE D,SET Qualified	English	3 Months
48	Ms. T. Sailaja	F	Asst.Professor	M.A.,M.Ed	English	Fresh
49	Mr. K. Bala Krishna	m	Asst.Professor	M.A, M.Ed,PGDELT, SET Qualified	English	Fresh
50	Mrs. P. Sri Madhavi	F	Asst.Professor	M.A.,B.Ed	English	15
51	Dr. Ch. Anjaneyulu	M	Professor	M.Sc.,Ph.D.	Chemistry	33
52	Mr. A. Venugopal	M	Asst.Professor	M.Sc.,B.Ed.(P.Hd)	Chemistry	21
53	Mr. P. Bhadraiah	M	Asst.Professor	M.Sc.B.Ed	Chemistry	13
54	Mr. N. Hussain Basha	M	Asst.Professor	M.Sc.(Ph.D)	Chemistry	7
55	Ms. G. Hima Bindhu	F	Asst.Professor	M.Sc.	Chemistry	15
56	Dr. K. Venkatesan	M	Asst.Professor	M.Sc.,P.h.D	Chemistry	3
57	Ms. Madhulika Bhattacharjee	F	Asst.Professor	M.Sc.	Chemistry	3
58	Mr. D. Tirupathi	M	Asst.Professor	M.SC.,B.Ed	Chemistry	8
59	Ms. G. Pavithra	F	Asst.Professor	M.Sc	Chemistry	3
60	Mr.K. Ramesh Goud	M	Asst.Professor	M.Sc, B.ED	Chemistry	6
61	Ms. R. Anusha	F	Asst.Professor	M.Sc, SET Qualified	Chemistry	2
62	Mr. S. Sambasiva Sarma	M	Assoc.Professor	B.Com, MBA,M.Phil.,(Ph.D) , SET Qualified	Mgt.Scienc e	14
63	Mr.M.Narender Reddy	M	Sr.Asst.Professor	M.Com.	Commerce	7
64	Dr. E. Uma Reddy	M	Assoc.Professor	M.F.A,M.B.A,Ph.D, SET Qualifed	Mgt.Scienc e	16
65	Mr.P.V.S.H. Sastry	M	Assoc.Professor	M.B.A, M.Com.,M.F.M,M.Phi l,SET & NET Qualified(Ph.D)	Mgt.Science	20
66	Dr.(Ms.)P. Vanishree Sah	F	Assoc.Professor	B.Com,M.B.A.,Ph.D	Mgt.Science	10
67	Ms. Asifa Tazeem	F	Asst.Professor	B.Com.,MBA,NET Qualified	Mgt.Science	7
68	Mr. N. Guruvaiah	M	Asst.Professor	B.Tech,MBA,NET Qualified	Mgt.Science	1
69	Ms. A. Rohini	F	Asst.Professor	M.Sc, UGC-NET Qualified	Env. Studies.	8

70	Ms. K.T.Padma Priya	F	Asst.Professor	M.Sc.(Ph.D.)	Env. Studies	12
71	Dr. K. Navatha	F	Asst.Professor	M.Sc.,Ph.D.	Env. Studies	6
72	Ms. M. Srudeepthi	F	Asst.Professor	M.Sc.	Env. Studies	Fresh

8. Percentage of classes taken by temporary faculty – programme-wise information

There are no temporary faculty members in this Department and all are regular faculty members

9. Programme - wise Student Teacher Ratio :

NA

10. Number of academic support staff (Technical) and administrative staff: sanctioned and filled

DTP Operators	Lab Assistant	Store Keeper	Programmers
2	1	1	3

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

NIL

12. Departmental Projects funded by DST-FIST; DBT, ICSSR etc.; total grants received

Funding Agency	Year	Purpose	Amount
AICTE	2005	Env. Awareness	50,000
DRDO, New Delhi	2006-07	Seminar grant	50,000/-
BRNS, Mumbai	2006-07	Seminar grant	1,00,000/-
DRDO, New Delhi	2003-06	Research on Synthesis and characterization of Bismuth layered structure ferroelectric and dielectric properties	17,95,000
AICTE	2010	Staff Development Programme	1,14,600/-
AICTE	2011	Seminar grant	62,500/-

13. Research facility / Centre with state Recognition, National recognition, International recognition

NIL

14. Publications”

Year	No. of Papers Published in National Journals	No. of Papers Published International Journals	No. of Conferences/ Seminars/ Workshops attended	No. of Workshops/Lectures conducted	Chapters/ Books Published
2009	5	2	13	3	1
2010	4	3	17	2	-
2011	17	12	17	1	-

2012	8	6	29	1	1
2013	14	7	18	1	-
2014	2	5	20	3	5

15. Details of Patents/Income generated : **NIL**

16. Areas of Consultancy/Income generated : **NIL**

17. Faculty recharging strategies

a.	Extension lectures were organized in Mathematics, Physics & Statistics
b.	Staff development programme is organized for newly joined faculty members for duration of two weeks every year. Every time about 30-40 new members joining the college are benefitting from this programme.
c.	Faculty members are encouraged to participate in seminars/workshops/conferences organized in other institutions also by reimbursing TA and Registration charges. During the seminars their absence in the college is treated as "ON DUTY".

18. Student's Projects : **NIL**

19. Awards / recognitions received etc. : **NIL**

**20. Seminars/Conferences/Workshops organized and source of funding
(National/International)
with details of outstanding particulars, if any.**

S.No.	Topic	Year	Amount	Sponsored by
01.	One-Day Seminar on Environmental Awareness	2005	50,000	AICTE
02.	Two-Day National Conference on ferroics	2006	50,000 1,00,000	DRDO, New Delhi BRNS
03.	Staff Development Programme	2010	1,14,600	AICTE
04.	Seminar Grant, SDP	2011	62,500	AICTE

21. Student Profile Course wise : **NA**

22. Diversity of students : **NA**

23. How many students have cleared civil services Defence services, NET, SLET, GATE and any other competitive examinations ? **: NA**

24. Student Progression : **NA**

25. Diversity of staff :

Percentage of faculty who are graduates	No. of faculty members	Percentage
Of the same parent university (JNTU, OU, UOH)	35	56.45
From other universities within the state	23	37.10
From other universities from other States	5	8

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

S.No.	Name of faculty	University Awarding	Year of Awarding	Specialization
01.	Dr. P. Vanishree Sah	Acharya Nagarjuna University	2013	Management
02.	Dr. K. Venkateshan	VIT	2014	Chemistry
03.	Dr. K. Navatha	Osmania University	2014	Environmental Studies
04.	Dr. D. Shankaraiah	Osmania University	2014	Mathematics
05.	Dr. D. Mallikarjun Reddy	Osmania University	2014	Mathematics
06.	Dr. Jaya Verma		2015	English
07.	Mr. Uma Reddy	JNTU, Hyderabad	2015	Management Sciences
08.	Dr. G. Sreedhara Sarma	SV University, Tirupathi	2014	Mathematics
09.	Dr. J. Ramesh Babu	Charan Singh University, Meerut	2015	Mathematics

27. Present details about infrastructural facilities

a) Library Books for H&S Dept.

Subject	No. of Books for issue	No. of Reference Books	No. of Books Sponsored by College Management	Journals & Magazines
Mathematics	3664	553	621	3
Physics	1100	126	206	12
Chemistry	585	135	198	5
Environmental Science	551	42	97	—
English	4168	824	761	31
Management Science	6359	2987	203	6
Total	16427	4667	2086	57

A Departmental Library for Humanities and Sciences Department was created with Four hundred and eleven books

S.No	Subject	No .of Books
1	English	303
2	Mathematics	30
3	Physics	20
4	Chemistry	22
5	Management Science	11
6	Statistics	5
7	Env.Studies	20
	Total	411

b) Internet facility available for faculty in the faculty rooms:

Internet facility is provided for the faculty members in the faculty rooms and systems are installed for their use.

c) No. of class rooms

There are 20 spacious well ventilated class rooms for first year provided with LCD Projectors. All windows have curtains to avoid glare.

d) Class rooms with ICT facility: -NIL-

e) Students Labs

i	Physics Labs	2
ii	Chemistry Labs	2
iii	English Language Communication Lab	2
iv	Advanced English Communication Lab	1
v	Research Labs	1 lab for research work in Physics

28. No. of students of the Department getting financial assistance from college

: NA

29. Was any need assessment exercise undertaken before the development of new program(s) ?

If so,

give the methodology. : NA

30. Does the department obtain feedback from

a. The college was granted Autonomy by JNTU for a period of 3 years from 2011-12 to 2013-14. Subsequently UGC granted Autonomy from 2014-15 to 2019-20. Consequently Board of Studies were constituted in different subjects to develop the curriculum. Senior and experienced faculty members are designated as members on the Boards in addition to subject experts designated by the affiliating JNTU and experts drawn from other reputed institutions and industries. Consequently faculty members are able to play an active part in the design of the curriculum. There are separate Board of studies for Physics, Chemistry, Management Science, English, Mathematics & Environmental Studies having University Nominees and other Subject experts.

b. Feedback is collected two times in each semester, first time after first two weeks and then again after two months by seeking the impression of the students in the form of questionnaire. The data is compiled and analyzed and accordingly teachers are advised to modify/correct teaching practices to make the students more comfortable with the subject.

c. The feedback provided by some of the alumni is collected and taken into consideration while designing curriculum.

31. List the distinguished alumni of the department (maximum 10) : NA

32. Give details of student enrichment programmes (special lecture/workshops/seminar) with external experts.

Invited Lectures were organized and the table below shows the list of lectures:-

Lecture	Speaker	Date
“Application of Fibonacci Numbers”	Dr. K. Satyanarayana Prof. In Mathematics	5 th October, 2013
“Application of Statistics in Real Life”	Dr. M. Krishna Reddy Prof. In Statistics	1 st February, 2014
“Physics and Applications of Nanostructures and Advanced Materials”	Prof. M. S. Rama Chandra Rao IIT Madras	6 th June, 2014
“Simulation and Modelling”	Prof.P. Madhusudan Rao	28 th November, 2015

33. List the teaching methods adopted by the faculty for different programmes.

- Class room teaching with board & Chalk.
- Lectures using power point presentation on LCD projectors.
- Tutorials classes where students are given numerical to work out and one teacher is allotted to help every 20 students work out the problems.
- Students are asked and guided to make presentations in the English language communications lab and also participate in GROUP DISCUSSION sessions under the

supervision of soft skills teachers. These are helpful during campus selections by different employers.

e) They are trained to participate in group discussions.

34. How does the department ensure that programme objectives are constantly met and learning

outcomes monitored.

: NA

35. Highlight the participation of students and faculty in extension activities

: NA

36. Give details of “beyond syllabus scholarly activities” of the department

: NA

37. State whether the programme/department is accredited/graded by other agencies. Give details

: Not Applicable.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department.

Strength	i	The Department has faculty members who are very well experienced in teaching.
	ii	Maximum number of Ph.D. qualified faculty members (13) are working in this Dept.
	iii	There is an excellent academic atmosphere for teaching-learning-process to take place
	iv	The laboratories in the Department are all very well equipped in spacious halls and that is an advantage.
	v	Sufficient number of faculty members is available to handle each subject so that no member is unduly loaded.
Weaknesses	i	In view of the distance of the college from important centers like Osmania University, JNTUH, UOH etc., it becomes difficult for the teachers to reach those places after class work for research work.
	ii	Lack of recognized supervisors to guide Ph.D. in College.
	iii	Research Journals are to be strengthened.
Opportunities	i	With strong support and encouragement from the College Management, many faculty members have worked to obtain Ph.D. Many more are working presently in that direction.
	ii	Incentives offered by sanctioning leave for six months with salary and twice during Ph.D. work is a great advantage.
	iii	Faculty members are in a position to make suitable modifications of the syllabus to make their teaching more effective, making use of Autonomous structure.
	iv	College has the opportunity to excel in academics in view of the congenial atmosphere for teaching-learning process.
Challenges	i	The Department has a challenge to provide necessary guidance and training in English language communications to students from rural back ground.
	ii	The Mathematics faculty have to train the students with weaker background in necessary mathematical techniques to enable them to master engineering subjects.

	iii	Since the students in first year of B.Tech are fresh in College, it is a challenge to orient them properly towards Engineering education.
	iv	Some students joining are from rural back ground, Telugu medium in previous education, weak social back ground, for whom tutoring , counseling are to be done continuously.

STRENGTHS

1. The Department has well experienced, teachers many of whom have qualified in the State level/Nation level eligibility tests for college teachers
2. The number of teachers holding Ph.D qualification is 16 about 20% of the total number of teachers
3. There are very well equipped laboratories which have to accommodate only 30 students in each lab thus enabling the students to perform the relevant experiments comfortably
4. An excellent academic atmosphere is created in the college in which learning goes on in a very effective manner.
- 5 The number of faculty members available is much more than the required number so that faculty members can perform their duty in a tension free atmosphere so that efficiency is maximized
6. The regular practice of obtaining feedback from students helps the teachers to modify and improve upon their performance.

WEAKNESSES

1. In View of the location of the college being away from the city it becomes difficult for the teachers to proceed to institutions like Osmania University, Jawaharlal Nehru Technological University or University of Hyderabad in pursuit of their research work for obtaining their Ph.D
2. Research journals relevant to particular areas are less in number
3. There are a small number of eligible research supervisors in the college which is a handicap for pursuing research in the college itself.

OPPORTUNITIES

1. With a strong band of qualified, experienced and committed teachers the department can perform in a very effective manner in shaping the future of so many engineers
2. Faculty members are having an opportunity to make modifications of the existing curriculum on account of autonomy and cater to the needs of the students
3. Faculty members have an opportunity to improve their qualifications because college is providing them encouragement, financial support and academic freedom to pursue their field of interest in research
4. In view of the good quality of students teachers have an opportunity to derive professional satisfaction
5. In view of the disciplined behavior of the students teachers can excel in their class-room

CHALLENGES

1. The Department has to equalize the academic levels of students coming from different backgrounds and bring them onto a single platform
2. Students from rural background in particular are to be trained with special care to develop their communication skills
3. As they grow up in age as well the students have to be developed into mature persons which is a challenge

39. Future plants of the Department.

Department should be in a position to offer M.Sc. courses when situation permits. That will give better satisfaction of teaching and stress on research.

F- CERTIFICATE OF COMPLIANCE

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that CVR College of Engineering fulfils all norms

1. Stipulated by the affiliating University and / or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Principal/Head of the Institution
(Name and Signature with Office seal)

Date : 25-03-2015
Place : Hyderabad

G- DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution

with seal:

Date : 25-03-2015

Place : Hyderabad

