

# **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.

(25 March 2015)

**CONTENTS**

<b>Ref. No.</b>	<b>Content</b>	<b>Page No.</b>
<b>A</b>	Letter addressed to the Director, NAAC	3
<b>B</b>	<b>Executive Summary</b>	4
<b>C</b>	<b>Profile of the Institute with Enclosures</b>	10
	<b>Criteria wise Inputs</b>	
<b>D</b>	D.1 Criterion-I: Curricular Aspects	35
	D.2 Criterion-II: Teaching-Learning & Evaluation	57
	D.3 Criterion-III: Research, Consultancy & Extension	108
	D.4 Criterion-IV: Infrastructure and Learning Resources	151
	D.5 Criterion-V: Student Support and Progression	165
	D.6 Criterion-VI: Governance, Leadership and Management	203
	D.7 Criterion-VII: Innovation and Best Practices	233
	<b>Evaluation Reports of the Departments</b>	
<b>E</b>	E.1 Civil Engineering (CE)	246
	E.2 Computer Science & Engineering (CSE)	267
	E.3 Electronics and Communication Engineering (ECE)	291
	E.4 Electrical and Electronics Engineering (EEE)	320
	E.5 Electronics and Instrumentation Engineering (EIE)	355
	E.6 Information Technology (IT)	380
	E.7 Mechanical Engineering (ME)	403
	E.8 Humanities & Sciences (H&S)	420
<b>F</b>	<b>Certificate of Compliance</b>	430
<b>G</b>	<b>Declaration of the Head of the Institute</b>	431

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](mailto:principal@cvr.ac.in)

STD Code : 08414 General : 252222, 252369 Office Telefax : 252396, Principal : 252396 (O)

**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](http://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 320+ Colleges. The Chairman of the College has a B.E. in Computer Science and Engineering from Osmania University, double M.S. in Computer Science and Computer Engineering, from USA. He had completed his Ph.D. in Computer Engineering from USA. He has worked for 12 years in Intel Corporation, California and for about 2 years in Microsoft, India.

With the zeal to serve the Motherland and to promote best quality Technical Education, the Society has established CVR College of Engineering, with the academic support of highly qualified NRI 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 College, 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 on the body. The Society started the College in 2001 as a Non-Profit Self-Financing Institution.

The College made a humble beginning with four branches of B.Tech. i.e. CSE, ECE, EEE & IT, and with a total intake of 220 students. From then onwards, the College has continuously improvised the required quality infrastructure and has incorporated resources to meet the Academic and Industry requirements.

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. The College has been regularly advertising to recruit Faculty with a required number, which is more than the norms pertaining to AICTE and JNTU.

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

As of now, the College has B.Tech courses 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 B.Tech I 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
	<b>Total</b>	<b>1200</b>



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
	<b>Total</b>	150

With the existing Senior Professors and most of the Faculty equipped with M.Tech. qualifications and supported by high quality infrastructure, the College is continuously chosen by the parents as the 5th preferred college among the 300+ colleges under JNTU, Hyderabad. From the inception, all seats have been filled in the first phase of State Government Counseling itself. Even, the recently started branches of B.Tech. Civil and Mechanical have all the seats filled in the first phase with good ranks.

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

**Accreditation:** The quality of instruction, 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 completing the courses successfully, it 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) as it had become 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 has accredited for the first time the EIE branch for the same period. Before, the closure of accreditation period, the College resubmitted application for 3<sup>rd</sup> time accreditation of five B.Tech programmes on 14<sup>th</sup> 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, the College submitted application to JNTU for permanent affiliation, and the 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. The Application was submitted to JNTU in 2010. After inspection by the team headed by Rector, JNTU, Hyderabad, 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, the 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, the 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

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.

Industry sponsored Electives also have been added. To make B.Tech study more comprehensive, the following project oriented courses are introduced as compulsory subjects:

- a. Industry oriented mini project
- b. Seminar
- c. Major project
- d. Comprehensive viva

All the above courses are compulsory.

Evaluation: The academic autonomy available to College, the examination system and evaluation has been made to be more rigorous in nature.

To illustrate, as an affiliated College, the student has to write two midterm exams in a semester and the better of the two is taken into consideration. This has hindered in fulfilling the concept of continuous learning and evaluation.

The College has then incorporated three mid examinations in each subject per semester and the 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 insist on regularity of attendance, internal marks have a component for attendance.

With the first batch of Autonomous students completing in 2014-15, the 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 35 Companies visit the College to conduct Campus Placements. In 2014-15, TCS alone had selected 169 candidates. Almost 75% eligible students get selected in Campus jobs.

As the college is located near a mega city like Hyderabad, there is a very good awareness on the part of students and parents to go abroad for higher studies. The 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 3<sup>rd</sup> year itself to ensure that the maximum numbers of students are benefited.

For the year 2009-10, the College received award from the Honorable Chief Minister of Andhra Pradesh, as “The College of Maximum Placements” in the State, through JKC, a Government sponsored Placement unit.

**Research:** The College has been giving top priority for quality of teachers acquiring higher qualification. To see that, many the faculty obtain M.Tech qualification during initial period of 2003-04, an incentive of Rs. 10000 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 the faculty pursue Ph.D, an incentive is available to them to have 6-7 months of paid leave with salary i.e. twice during the Ph.D. work. In addition to the salary, Rs. 10,000/- per month is paid towards study expenses during their leave. Further an amount of Rs. 25000 each is sanctioned thrice at different stages. This has helped most of the Faculty to register with Universities like JNTU, OU, University of Hyderabad & other Universities. As of now, 14 staff members have obtained Ph.D, 35 members are at different stages of Ph.D. i.e., out of 277 Faculty members, 30 are Ph.D. Holders, 35 are at different stages and the remaining are M.Techs'. There are mere four staff members who will be completing M.Tech shortly. The Software available in the College is latest and State of the Art like Cadence VLSI Tools, Microsoft Dreamspark Premium, Oracle Academic Initiative, SAP-2000, ETABS-2013, Auto Inventor CAD-2014 (Computer Aided Design Software), Master CAM-X7, CREC-2.0, and ANSYS-15.

**Research Publications:** The 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.10000 to Rs.20000 based on recommendation of Research Committee.

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

The 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:** The College encourages departments to organize Faculty Development Programmes from the Institutional funds. Similarly, the Faculty is encouraged to attend Programmes organized by other Colleges. Faculty members writing a text book is rewarded with Rs. 20,000.

The College has MOU with many National and International organizations like Virtusa, Mitsubishi, Global Edge, CADENCE, IIIT etc., to inculcate better Teaching-Learning practices.

### **Research Funds:**

1. During 2004-07, DRDO, Delhi sanctioned a research project in Material Science sanctioning Rs. 18.7 lakhs. The project was successfully completed.
2. The College organized two national conferences supported by AICTE, DRDO and BRNS, Mumbai.
3. The 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.

The College has created a RFID cell with institutional funding of Rs. **18.5 lakhs**. The Management is liberal to support any research projects. A Project in UAV with Prof. Subramanyam, Professor of ECE as the Coordinator of the Project is under active progress involving M.Tech students. The project is estimated to cost Rs. 5 lakhs funded by the College under Institutional Funding.

**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 other institutions. The College sponsors the students by 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.

The 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 the students of the College in the month of March of every year and full financial support is provided by the College.

**Societal Commitments:** Staff and Students of the College take part in various societal commitments through NSS. The College has NSS unit sanctioned by University. NSS camps are organized at nearby villages on Health awareness, Environmental cleanliness, HIV eradication, 5K Run etc. The College is known for blood donation. It organizes a camp every year, where the Staff and Students donate blood. The College has received a special award from Honorable Governor of Telangana, for maximum blood donors from the 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.

**Campus special features:**

**Utilization of Solar Power Energy:** The College has a Solar Power Plant generating 120 KW of Energy with panels on roof top of PG building, over an area of 1200 Sqm. The Power is connected to grid also. There is an investment of Rs. 114 lakhs for this alone.

With the advantage and economy realized, an improved version of tracking Solar PV Plant (80KW) has been installed on roof top of Main Building. This has facility of titling of the panel depending on the sun position. This system has substantial increase in power generation. Another 160KW is being installed and will be commissioned by March 31, 2015.

Two Solar Water Heaters are installed in the hostel with capacity of 2500 litres each. With this facility, 16 KW of energy through geysers is saved and there is considerable reduction in CO<sub>2</sub> emission.

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

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

**Special Safety Measures:** Fire hydrants and Fire Alarm Systems are installed in all buildings for an investment of more than Rs. 50 lakhs. This system installed consists of a water distribution system with a suction piping, fire pump and distributing piping system having nozzles and hoses. This can touch any corner of building as a spray.

**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 20 interviewing cubicles, group discussion cubicles, Conference and dining facility with spacious placement office, is a special feature which many companies appreciate.

Management’s concept is to give the best to the students for their welfare and progress. This is the only College, the Society has and it believes in the concept, “*An Investment in knowledge always pays the best interest*”, as quoted by 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	<a href="mailto:principal@cvr.ac.in">principal@cvr.ac.in</a>
Vice Principal	Prof. L.C. Siva Reddy	8414252550	9885806151	8414252396	<a href="mailto:sivareddy.lakkam@gmail.com">sivareddy.lakkam@gmail.com</a>
Steering Committee Coordinator	Prof. Wg. Cmdr. (Retd.) Varghese Thattil	8414252344	9848565563	8414252396	<a href="mailto:mailthattil@gmail.com">mailthattil@gmail.com</a>

#### 3. Status of the Autonomous College by Management.

I	Government	
II	Private	<input checked="" type="checkbox"/>
III	Constituent College of the University	

#### 4. Name of University to which the College is Affiliated

Jawaharlal Nehru Technological, 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                   | <input type="checkbox"/>            |
| i. Grant-in-aid                 | <input type="checkbox"/>            |
| ii. Self-financing              | <input checked="" type="checkbox"/> |
| iii. Any other (Please specify) | <input type="checkbox"/>            |

## 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 C1**

## 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/1-208933425/2014/EOA/Corrigendum-1	19-01-2015	One Year	Institution	Yearly approval / sanction by AICTE, New Delhi
ii.				
iii.				

(Enclose the Certificate of recognition/approval) : **Enclosure C2**

## 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. Application was submitted in December 2014 for 3<sup>rd</sup> time accreditation by NBA.

**10. Location of the campus and area :**

Location *	Rural
Campus area in sq. mts. or acres	27.24 acres
Built up area in sq. mts.	45673 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:**

- **Sports facilities**

Play ground	<input checked="" type="checkbox"/>
Swimming pool	<input type="checkbox"/>
Gymnasium	<input checked="" type="checkbox"/>

- **Hostel**

Boys' hostels	<input checked="" type="checkbox"/>
Girls' hostels	<input type="checkbox"/>

- **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	<input checked="" type="checkbox"/>
Inpatient facility	<input type="checkbox"/>
Outpatient facility	<input checked="" type="checkbox"/>
Ambulance facility	<input checked="" type="checkbox"/>
Emergency care facility	<input checked="" type="checkbox"/>

**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 2014-15.**

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.	4Years	10 + 2 & Rank in EAMCET	English	120	120
2.	UG: (B.Tech.)	CSE	4Years	-Do-	English	300	300
3.	UG: (B.Tech.)	ECE	4Years	-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
<b>Total</b>						<b>1200</b>	<b>1200</b>

1.	PG: (M.Tech.)	Civil Engg. Structur es	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
<b>Total</b>						<b>150</b>	<b>97</b>

**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

**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
Arts	Under Graduate Post Graduate Research Centre(s)	NA
Commerce	Under Graduate Post Graduate Research Centre(s)	NA
Any other	Under Graduate: B.Tech. H&S Supporting Dept. Post Graduate: M.Tech. Research Centre(s)	7 6 B.Tech: 3714 M.Tech: 209



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	
b.	Inter/Multidisciplinary Approach	
c.	Complete semester pattern from I year to final year as per approved course structure, each subject having prescribed credits.	✓

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. 67,823

(b) excluding the salary component

Rs. 29,968

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 C3**

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 C4)**
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	NA
Sanctioned by the Management / Society or other authorized bodies as per norms of AICTE & JNTU Recruited.	25	4	32	11	112	93	50	17	42	20	
<b>Total</b>	<b>277</b>						<b>67</b>		<b>62</b>		
Yet to recruit	-	-	-	-	-	-	-	-	-	-	

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent Teachers</b>							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	20	4	1	-	6	4	35
M. Phil.	1	-	1	-	3	5	10
PG (M.Tech./M.Sc./M.A.)	4	-	30	11	103	84	232
<b>Total</b>	<b>25</b>	<b>4</b>	<b>32</b>	<b>11</b>	<b>112</b>	<b>93</b>	<b>277</b>
<b>As per norms of AICTE, 275 are required</b>							
<b>Temporary Teachers: Nil</b>							
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
<b>Part-Time Teachers: Nil</b>							
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

Number of Visiting Faculty/ Guest Faculty engaged by the College: **Nil**

**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	813	385	46	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
From other States of India	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRI Students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Foreign Students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>815</b>	<b>385</b>	<b>46</b>	<b>51</b>																

**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**

1 9 0

**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): 10-02-2014**

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 annum 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 1<sup>st</sup> 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.

Mr. Harsh H. Shah, a CSE graduate of 2009, won **three Gold Medals** for the following achievements (highest in the University)

- 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](http://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/Appl 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 <sup>th</sup> 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, 4<sup>th</sup> 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/Corrigend 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

Note This is a Computer generated Corrigendum Letter for EoA. No signature is required.  
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	Full/Part Time	Affiliating Body	Intake 2012-13	Intake 2013-14	Intake Approved for 2014-15	NRI	PIO
Program	Shift	Level								
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

Note This is a Computer generated Corrigendum Letter for EoA. No signature is required. 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

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

Note This is a Computer generated Corrigendum Letter for EoA. No signature is required.  
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

Application Id: 1-2018933425			Course	Full/Part Time	Affiliating Body	Intake 2012-13	Intake 2013-14	Intake Approved for 2014-15	NRI	PIO
Program	Shift	Level								
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](http://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:

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

Application Number: 1-2018933425\*

Page 4 of 5

Note This is a Computer generated Corrigendum Letter for EoA. No signature is required.  
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

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\*

Note This is a Computer generated Corrigendum Letter for EoA. No signature is required.  
2015.

Printed By : ae853051

Page 5 of 5

Letter Printed On:23 January

**Enclosure C4-1**

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

अखिल भारतीय तकनीकी शिक्षा परिषद्  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(भारत सरकार का एक सांविधिक निकाए) (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



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 13<sup>th</sup> – 15<sup>th</sup> 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 04<sup>th</sup> 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.

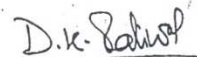
4. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to CVR College of Engineering, R.R. District, A. P. as a whole. As such the Institution should nowhere alongwith its name including on its letter head etc., write 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 along with 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,



(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, 4<sup>th</sup> Floor, Secretariat Building, Hyderabad-500022.
3. The Director of Technical Education, Dept. of Technical Education, Govt. of Andhra Pradesh, V<sup>th</sup> 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**

Grarns: "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.Procds 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:**

- 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.
- 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.
- 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 1<sup>st</sup> 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

P-56

Contd..2

-- 2 --

The Autonomous Status shall be subject to the following conditions:

1. The Management shall follow the autonomy norms of UGC and the rules of JNTU 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 1<sup>st</sup> 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),  
Ibrahimpattanam(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

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

UGC Website : www.ugc.ac.in

**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 06<sup>th</sup> & 07<sup>th</sup> 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, 4<sup>th</sup> Floor, 5-9-194, Chirag Ali Lane, Hyderabad – 500 001.

Yours faithfully,

(Nidhi Sharma)

Cont...


: 2 :

Copy to:-

1. The Secretary, Higher Education Department, Govt. of Andhra Pradesh, J-Block, 4<sup>th</sup> Floor, A.P. Sectt. Hyderabad – 522 022 (Andhra Pradesh)
2. The Joint Secretary & Incharge, UGC, South Eastern Regional Office, PB No. 152, APSFC Building, 4<sup>th</sup> 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 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 NTPEL / 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.

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

- **Employability**
- **Innovation**
- **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) Each department has created a research Lab 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 floor of the PG block. There is a Rs.130lakh investment by the college producing 125 KW power connected to the main grid also.

Another project is landscape development using water recirculation.

Dr. Esther Rani, Professor of ECE Department has obtained a patent and also UGC fellowship for 2 years.

#### **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. degree.
- 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.

#### **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

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 1<sup>st</sup> 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 on space.

S. No.	Programme	Period	Staff involvement
1.	Star Prime – Soft skills TTT - Infosys	30 <sup>th</sup> May to 1 <sup>st</sup> June 2011 – 3 days	Soft Skills faculty – Vanitha Sangireddy , Vijaya Mair
2.	Deep Dive (FEP) - “Best Practices in Programming and Testing” - Infosys	21 <sup>st</sup> to 25 <sup>th</sup> February 2012 – 5 Days	Domain Faculty – CVS Sathya Murthy, V. Sowjanya,
3.	Agile Methodologies - SCRUM - TCS	18 <sup>th</sup> February 2012	Domain Faculty – CVS Sathya Murthi, V. Sowjanya, N. Nagarjuna
4.	Samvaad 2012 – Professional Skills Development Infosys	9 <sup>th</sup> March 2012	Training and Placement Officer – Vijaya Mair
5.	Star Prime – Soft skills TTT - Infosys	18 <sup>th</sup> to 21 <sup>st</sup> April 2012 – 4 Days	Soft Skills faculty – Sucharan Reddy
6.	Star Prime – Soft skills TTT - Infosys	20 <sup>th</sup> to 22 <sup>nd</sup> June 2012 – 3 days	Soft Skills faculty – Neha Badhe
7.	Deep Dive (FEP) - “Best Practices in Programming and Testing” (FEP3.0 based)	25 <sup>th</sup> to 29 <sup>th</sup> June 2012 – 5 Days	Domain Faculty – N. Nagarjuna , A. Pranaynath Reddy
8.	Infosys Campus Connect Faculty Enablement Program held at KITS Warangal	8th - 12th october 2012	Domain Faculty – P.Narsimhulu (Asst Prof.) & K.V.Sriharsha Asst Prof.
9	Infosys Faculty Enablement Program at Swarnandhra College,Narsapuram	8th to 12th July, 2013	Domain Faculty – Mr. Bhanu Mahesh (Asst Prof.) & N.Sateesh (Asst Prof.)
10	Infosys Campus Connect Faculty Award Ceremony	26 <sup>th</sup> July 2013	Eight Faculty Members.
11	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)
12	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)

Similar Programmes are organized every year including the previous years

- 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

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

The syllabus for each subject in turn has been divided into eight mini modules in consistency with end question paper having 8 questions.

- d) **Credit transfer and accumulation facility:** The credit transfer scheme is not available in the affiliating University in turn 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.

**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 <sup>rd</sup> /4 <sup>th</sup> year
		Retrofitting and Rehabilitation of Structures	
		Water Management	
		Environmental Impact Assessment & Management	
		Intellectual Property Rights	
		Green Building Concepts	
2	EIE	Robotics & Automation	3 <sup>rd</sup> /4 <sup>th</sup> year
		Opto Electronics & Laser Instrumentation	
		Renewable Energy Sources	
		Artificial Neural Networks	
3	ECE	Internetworking	3 <sup>rd</sup> /4 <sup>th</sup> year
		Radar Systems	
		Satellite Communications	
		Nano Technology	
		Mobile Applications Development using Android	
4	EEE	Power Quality	3 <sup>rd</sup> /4 <sup>th</sup> year
		Neural Networks & Fuzzy Logic	
		Biomedical Instrumentation	
		Reliability Engineering	

5	Mechanical	Engineering Acoustics	3 <sup>rd</sup> /4 <sup>th</sup> Year
		CAD/CAM Cryogenic Engineering	
		Safety Engineering	
		Rapid Prototyping	
6	CSE	Business Intelligence & Big Data Analytics	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Cloud Computing	
		Mobile Computing	
		Semantic Web & Social Networks	
		Intellectual Property Rights	
7	IT	Business Intelligence & Big Data Analytics	3 <sup>rd</sup> /4 <sup>th</sup> 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.

<b>UG: B.Tech</b>	<b>Intake</b>
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
<b>Total</b>	<b>1200</b>
<b>PG:</b>	
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
<b>Total</b>	<b>150</b>

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?**

No. The College has semester system from 1<sup>st</sup> year to 4<sup>th</sup> year with credits assigned for each subject. However there are electives (both departmental and inter disciplinary) where students have choice of opting a particular elective in the assigned semester as given in course structure. All such electives are approved by the Board of Studies.

**1.2.6 What percentage of programmes offered by the College follows:**

- Annual system
- Semester system
- 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 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 <sup>rd</sup> /4 <sup>th</sup> Year
		Database Management Systems	
		Entrepreneurship	
		Object Oriented Programming Using C++	
2	CSE	Principles of VLSI Design	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Operations Research	
		Elements of Civil and Mechanical Engg.	
3	ECE	Biomedical Instrumentation	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Network Security	
		Multimedia & Signal Coding	
		Object Oriented programming through JAVA	
4	EEE	Neural Networks and Fuzzy Logic	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Nano Technology	
		Principles of VLSI Design	
		Object Oriented Programming through C++	
5	EIE	Nanotechnology	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Elements of Civil & Mechanical Engineering	
		Object Oriented Programming through Java	
		Entrepreneurship	
6	IT	Principles of VLSI Design	3 <sup>rd</sup> /4 <sup>th</sup> Year
		Operations Research	
		Elements of Civil and Mechanical Engineering	

7	Mechanical	Robotics	3 <sup>rd</sup> /4 <sup>th</sup> 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 almost 10% 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. This will be applicable from the academic year 2015-16.

**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.

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 organized by the Placement Cell:**

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

16.	IBM TGMC Workshop	3 <sup>rd</sup> March 2012	139 Students and 8 Faculty
17.	Infosys Campus Connect and Quant/Apt by Career Launcher	17 <sup>th</sup> May 2012 to 13 <sup>th</sup> June 2012	All Final Year Students – 25 Days of Training
18.	Soft Skills Training by Learning Curve Management Services	2 <sup>nd</sup> July 2012 to going on	All Final Year Students
19.	Infosys SoftSkill Program by Prem Prakash Dayal (Infosys)	30 <sup>th</sup> May 2013	All Third Year Students
20.	Campus Recruitment Training (CRT)	27 <sup>th</sup> May to 30 <sup>th</sup> June.	All Third Year Students
21.	Infosys Faculty Enablement Program @ Swarnadhra College Narsapuram	8 <sup>th</sup> July to 12 <sup>th</sup> July 2013.	Two Faculty Members (Mr Bhanu Mahesh & N. Sateesh)
22.	Microsoft Innovation Center (MIC)	26 <sup>th</sup> July 2013	All Third Year Students.
23.	Infosys Campus Connect Faculty Excellence Awards 2013	26 <sup>th</sup> July 2013	Eight Faculty Members.
24.	Alumni Meet	17 <sup>th</sup> August, 2013	Students
25.	A session by Anil Nair	23 <sup>rd</sup> 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	26 <sup>th</sup> August, 2013	III Year Students (CSE & IT)
27.	FF2H Seminar by Pradeep Desu – HR Pocket Gems	10 <sup>th</sup> Sep, 2013	All Final Years 2014 YOP for free training over weekends
28..	Faculty development program on SAP (Sai Spurthi Institute Of Technology)	18 <sup>th</sup> -21 <sup>st</sup> Sep, 2013	N. Sateesh, Asst. Prof.(IT) P.Narsimhulu Asst. Prof.(CSE),S. Sambasiva Sarma, Assoc. Prof.(MBA)
29.	Anil Nair Session	01 <sup>st</sup> - 02 <sup>nd</sup> Oct, 2013	For B. Tech. & M.Tech. 2014 YOP
30.	HIGH IMPACT Program for the First Years by Prem Dayal – Soft Skills Trainer Infosys	12 <sup>th</sup> ,13 <sup>th</sup> ,14 <sup>th</sup> Nov, 2013	for all the I Yr. creating awareness about Engineering and helping them get focused from I yr 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

Programmes conducted during 2014-15 are listed below:

S.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 2015 Pass 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

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 2009-10 and 2008-09. Such programmes give very good scope for developing high skills.

Students are encouraged to take up their final year statutorily required 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.

#### **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 4<sup>th</sup> week and 15<sup>th</sup> 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.

a) **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.

b) **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.

c) **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.

d) **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.

**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.

**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 and Profile

#### 2.1.1 How does the College ensure publicity and transparency in the admission Process?

##### **Publicity:**

Admissions in States of Telangana and Andhra Pradesh are made by the State Council of Higher Education based on merit rank obtained by State level examination EAMCET, following statutory regulations of reservations.

State Council notifies about the schedule of Examination of EAMCET in all News papers and publishes the ranks in News Papers and Website also. Admissions are centralized by the State Council and publicity is fully given for the schedule of admissions.

##### **Transparency:**

All the information is documented by Government and published in Newspapers and State Council Website. Any student can enquire personally from Help Lines/Counseling Centers notified by Government. As such, there is full transparency of admissions. This manner of admissions is being done by the State Government every year for more than 15 years.

Admissions for M.Tech. Programmes are also done by the State Council through a Convener appointed by the Government. There is always publicity and transparency 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 5/6<sup>th</sup> 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.

### 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	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	36	13	61	15	61	19	71	32	83	39
ST	18	9	25	10	25	8	35	13	39	16
OBC	251	101	224	106	234	145	290	169	366	178
General	98	48	175	104	225	106	274	129	323	156

#### M.Tech:

Categories	2010-11		2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	8	3	7	2	9	2	9	3	8	4
ST	3	1	2	1	3	1	3	2	5	3
OBC	28	13	32	14	47	17	37	13	33	11
General	26	8	26	6	44	12	34	11	23	8



**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	97	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 7/8<sup>th</sup> 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 7<sup>th</sup>/8<sup>th</sup> 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 College is 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 over come 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 1<sup>st</sup> 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**

<b>DATE</b>	<b>9:15 – 10:45 AM</b>	<b>11:00 AM – 12:30 PM</b>
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	EDP G.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 / Hussain Basha)

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

<b>Date</b>	<b>9:15 – 10:45 AM</b>	<b>11:00 AM to 12:30 PM</b>
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 2013-14 for B.Tech II/II semester year students**

<b>Date</b>	<b>9:15 – 10:45 AM</b>	<b>11:00 AM to 12:30 PM</b>
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.Malleshwari)
01-03-2014	Pulse & digital circuits (Mr. S.Ravikanth)	Electromagnetic theory & Transmission lines (DrK.S.Nayanathara)
15-03-2014	Logical & Switching Theory (MsA.Malleshwari)	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.Tech III/I semester 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 (MEFA) (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(AWP) (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 – 10:45 AM	11:00 AM to 12:30 PM
21-12-2013	Digital communication (Mr. B.Ravinder)	Digital signal processing (Mrs. P.Nagamalleshwari)
20-12-2013	Digital signal processing (Mrs. P.Nagamalleshwari)	Operating systems (Mrs. K.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 – 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)

**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 <sup>th</sup> Sept. 2010 to 28 <sup>th</sup> Oct. 2010	All Final Year Students
2.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	18 <sup>th</sup> Sept. 2010	All Final Year Students 2011 - YOP

3.	Persistent Pre Placement Talk	21 <sup>st</sup> Oct- 2010	All Final Yr Students
4.	TCS Pre Placement Talk	11 <sup>th</sup> Nov 2010	All Final Year Students
5.	Quant/Apt Training by Career Launcher and Career Conduit	3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> 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 <sup>th</sup> 2011 to 21 <sup>st</sup> 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 <sup>th</sup> 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 <sup>th</sup> Aug. 2011	All registered students
12.	Aspiring Minds Computer Adaptive test (AMCAT) Quant/Apt/Logical/Verbal/Domain	9 <sup>th</sup> January 2012	All Final Year Students 2012 - YOP
13.	PAC Labs Online Practice Test Quant/Apt/Logical/Verbal/Domain	27 <sup>th</sup> February 2012	All 3 <sup>rd</sup> Year Students 2013 - YOP
14.	Infosys Spark Program – Students and Faculty	28 <sup>th</sup> February 2012	2 <sup>nd</sup> and 3 <sup>rd</sup> year Students (300 No's)
15.	JKC - Java Faculty Development Program – Java Training by ShanmukhaPriya Trainer from Oracle	27 <sup>th</sup> February 2012 to 1 <sup>st</sup> 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 <sup>nd</sup> July 2012 to going on	All Final Year Students
19.	Infosys Soft Skill Program by Prem Prakash Dayal (Infosys)	30 <sup>th</sup> May 2013	All Third Year Students
20.	Campus Recruitment Training (CRT)	27 <sup>th</sup> May to 30 <sup>th</sup> June.	All Third Year Students
21.	Infosys Faculty Enablement Program @ Swarnadhra College Narsapuram	8 <sup>th</sup> July to 12 <sup>th</sup> July 2013.	Two Faculty Members (M. Bhanu Mahesh & N. Sateesh)
22.	Microsoft Innovation Center (MIC)	26 <sup>th</sup> July 2013	All Third Year Students.
23.	Infosys Campus Connect Faculty Excellence Awards 2013	26 <sup>th</sup> July 2013	Eight Faculty Members.
24.	Alumni Meet	17 <sup>th</sup> August, 2013	Students
25.	A session by Anil Nair	23 <sup>rd</sup> 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	26 <sup>th</sup> August, 2013	III Year Students (CSE & IT)
27.	FF2H Seminar by PradeepDesu – HR Pocket Gems	10 <sup>th</sup> Sep, 2013	All Final Years 2014 YOP for free training over weekends
28..	Faculty development program on SAP (SaiSpurthi Institute Of Technology)	18 <sup>th</sup> -21 <sup>st</sup> Sep, 2013	N. Sateesh, Asst. Prof.(IT) P.Narsimhulu Asst. Prof.(CSE),S. SambasivaSarma, Assoc. Prof.(MBA)
29.	Anil Nair Session	01 <sup>st</sup> - 02 <sup>nd</sup> Oct, 2013	For B. Tech. & M.Tech. 2014 YOP
30.	HIGH IMPACT Program for the First Years by PremDayal – Soft Skills Trainer Infosys	12 <sup>th</sup> ,13 <sup>th</sup> ,14 <sup>th</sup> 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.	Deloitte Collegiate Cyber Threat Competition — Wave III	21 <sup>st</sup> Jan 2014	All third year students

**Keeping the industry expectations in mind, 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. Cnandrashekhara 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.Tech II year students.

**3. ADOBE FLEX Certificate Training Programme:**

- 11 students of the IT branch attended Adobeflex workshop organized by the Adobe Team on 4<sup>th</sup> and 5<sup>th</sup> 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.

**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: 07B81A0418 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** form 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.Vizarath Rassol Khan Endowment Medal for 1<sup>st</sup> 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. Gampa Kavya (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. Sree Charan Reddy-12B81A1049- Global Entrepreneurship summit- IIT Kharagpur- Jan 10<sup>th</sup> and 12<sup>th</sup> ,2014
  11. Mr. Sai Kiran Chavali got gold medal for Best Project in the year 2012.
  12. Miss. Gopika Poornima got gold medal for best student in the year 2013.

### **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 1<sup>st</sup>Mid, 1<sup>st</sup> Mid duration, 2<sup>nd</sup> spell of instructions, 2<sup>nd</sup> Mid duration followed by preparation holidays, practical examination duration and end examination duration.

The calender, that is finalized will be strictly followed by all the departments.

The calendar followed is:

Academic Calendar for B.Tech. 1<sup>st</sup> year – I semester for the academic year 2014-15

**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	<b>I Mid Examinations - Timings:</b> 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 <sup>nd</sup> Spell of Instruction	13.11.2014 to 7.1.2015	8 weeks
5	<b>II Mid Examinations - Timings:</b> 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 <sup>st</sup> Spell of Instruction	9.2.2015 to 4.4.2015	8 weeks
3	<b>I Mid Examinations - Timings:</b> 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 <sup>nd</sup> Spell of Instruction	9.4.2015 to 3.6.2015	8 weeks
5	<b>II Mid Examinations - Timings:</b> 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
9	Commencement of class work for the 2 <sup>nd</sup> year I-Sem. Academic Year 2015-16	13.7.2015	

### Academic Calendar for B.Tech. 2<sup>nd</sup> 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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 <sup>rd</sup> year I-Sem. Academic Year 2015-16	22.6.2015	

### Academic Calendar for B.Tech. 3<sup>rd</sup> & 4<sup>th</sup> Year – I & II Sem. for the academic year I Sem

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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 - <b>Timings:</b> 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 <sup>th</sup> 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 <sup>st</sup> Spell of Instructions	24.11.2014 to 17.1.2015	8 weeks
3	1 <sup>st</sup> Mid Term Examination	19.1.15 to 24.1.2015	1 week
4	2 <sup>nd</sup> Spell of Instructions	27.1.2015 to 20.3.2015	8 weeks
5	2 <sup>nd</sup> 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 <sup>st</sup> 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 <sup>st</sup> Spell of Instructions	22.6.2015 to 18.7.2015	4 weeks
5	1 <sup>st</sup> Mid Term Examination	20.7.2015 to 25.7.2015	1 week
6	2 <sup>nd</sup> Spell of Instruction	27.7.2015 to 19.9.2015	8 weeks
7	2 <sup>nd</sup> 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 <sup>st</sup> semester	12.10.2015 to 24.10.2015	2 weeks

#### 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.

**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 35 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 intent of shaping up of the students career, 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. 1<sup>st</sup> Year students.

- I 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 1<sup>st</sup> year, counseling frequency is 4 – 5 times in the semester and for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> 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. 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. JyothiKiranmai
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. 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 Prof. E. Narsimha Charyulu	9391011553
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
			Mr.Hanimi Reddy	9491869509	12B81A0521
					12B81A0522
					to
					12B81A0541
Mrs.G.Swetha	9848432359	12B81A0542			
		to			
		12B81A0560			
CSE-B	Mrs.N.Vanaja	9293322258	Mr.Satyanarayana	9000439636	12B81A0562
					to
			Mrs.Ch.Sarada	9948904610	12B81A0582
					12B81A0583
			Mrs.N.Vanaja	9293322258	to
					12B81A05A2
12B81A05A3					
CSE-C	Mr.D.Bheekya	8985411805	Mrs.Ch.Sarada	9948904610	12B81A05C0,
					11B81A0565
			Mrs.Priti Patel	9949688704	12B81A05C1
					to
			Mr.Hanimi Reddy	9491869509	12B81A05E1
					12B81A05E2
to					
12B81A05G1					
					12B81A05G2
					to
					12B81A05J0,
II YEAR COUNSELING IN-CHARGE:					11B81A0559,
Mrs. A. Vani Vathsala					13B88A0501

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 Mobile Number	Roll Number
CSE-A	Mr.S.Afroz	9700536534	Mr.M.Hanimi Reddy	9491869509	12B81A0501 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 12B81A05G1
			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.Ram Babu	929066665	11B81A0524 to 11B81A0543
			Mr.K.Venkateswara Rao	949380956	11B81A0544 to 11B81A0561
CSE-B	Mr.M.Rameh	970012343	Mr.S.Afroz	970053654	11B81A0562 To 11B81A0582
			Mrs.S.Suguna Mallika	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.Nayanathara	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. Some of the students are involved in the team too.
- Major Projects done by students has guidance from teachers. Some Projects are really of advanced learning

- A project funded by College on Quadcopters is 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 IIT, 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
  - Students feedback also gives information on effectiveness of teaching by staff member

The following faculty have acquired such opportunities: (a part 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 <sup>th</sup> May to 26 <sup>th</sup> 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 <sup>th</sup> January to 7 <sup>th</sup> February 2012 at CVR college of Engineering.
4	Workshop on “Android Application Development	Syed Muqthadar Ali	14 day workshop in CVRCE in collaboration with Alumni from 18th Jan-7th Feb 2012
5	Workshop on “Android Application Development	Suguna Mallika S	14 day workshop in CVRCE in collaboration with Alumni from 18th Jan-7th Feb 2012
6	Cloud Computing	M.Sunitha	CVRCE, Hyderabad on 4 <sup>th</sup> January, 2012
7	Cloud Computing	C.H.Ram Mohan	CVRCE, Hyderabad on 4 <sup>th</sup> January, 2012
8	Cloud Computing	N.Vanaja	CVRCE, Hyderabad on 4 <sup>th</sup> January, 2012

9	Cloud Computing	Ms. Patel Pritibahen sumanbhai	CVRCE, Hyderabad on 4 <sup>th</sup> 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 Pritibahen sumanbhai	Computer Science and Engineering department of Sphoorthy Engineering College, Nadergul, 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 Pritibahen sumanbhai	ACM annual meeting at Indian School of Business, Hyderabad. 2011
17	“ADOBE-FLEX”	Ms. Patel Pritibahen sumanbhai	Computer Science and Engineering department of Sphoorthy Engineering College, Nadergul, 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

- Every department is given 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

**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?**

- **Number of projects executed within the College**
- **Names of external institutions associated with the College for student project work**
- **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 3<sup>rd</sup> year summer vacation and submits report for evaluation in 4<sup>th</sup> year 1<sup>st</sup> 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 4<sup>th</sup> week and 16<sup>th</sup> 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	:57017
No. of Titles	:12170
- 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 : 275

Filled on rolls : 277

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 candidates 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 1<sup>st</sup> 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	
<b>Permanent Teachers</b>							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	20	4	1	-	6	4	35
M. Phil.	1	-	1	-	3	5	10
PG (M.Tech./M.Sc./M.A.)	4	-	30	11	103	84	232
<b>Total</b>	<b>25</b>	<b>4</b>	<b>32</b>	<b>11</b>	<b>112</b>	<b>93</b>	<b>277</b>
<b>As per norms of AICTE, 275 are required</b>							
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 38% of faculties are lady faculties (108 of 277 faculties) are lady faculty

**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 % Faculty with PG qualification = 273 out of 277.

Four faculty are also about to complete their PG.

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

<b>Civil Engineering</b>				
Name of the Course	% 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 %	-	-

<b>CSE</b>				
Name of the Course	% 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	-	-
M.Tech2014-15	-	100	-	-



<b>ECE</b>				
<b>Name of the course</b>	<b>% of students from the college</b>	<b>% of students from the state</b>	<b>% of the students from other states</b>	<b>% of students from other countries</b>
B.Tech	-	100	-	-
M.Tech (VLSI)	-	100	-	-
M.Tech( ES)	-	100	-	-
M.Tech(WMC)	-	100	-	-
<b>EEE</b>				
<b>Name of the Course</b>	<b>% of students from the College</b>	<b>% of students from the State</b>	<b>% of students from other States</b>	<b>% of students from other countries</b>
B. Tech	-	100%	-	-
M. Tech	-	100%	-	-

<b>EIE</b>				
<b>Name of the Course</b> (refer question no. 2)	<b>% of students from the College</b>	<b>% of students from the State</b>	<b>% of students from other States</b>	<b>% of students from other countries</b>
B.Tech(2013-14)	-	100%	-	-
B.Tech(2012-13)	-	100%	-	-
B.Tech(2011-12)	-	100%	-	-

<b>IT</b>				
<b>Name of the Course</b> (refer question No.2)	<b>% of students from the college</b>	<b>% of students from the State</b>	<b>% of students from other States</b>	<b>% of students from other Countries</b>
B.Tech 2014	-	100	-	-

<b>Mechanical</b>				
<b>Name of the Course</b> (refer question No.2)	<b>% of students from the college</b>	<b>% of students from the State</b>	<b>% of students from other States</b>	<b>% of students from other Countries</b>
B.Tech I Year	-	100	-	-
B.Tech II Year		100		
B.Tech III Year		100		
B.Tech IV Year		100		

**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 35 Ph.D holders and 35 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
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.Tech in 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 sponsoring to Faculty Development Programmes, organizing Workshop in College and guest Lectures in College.

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

Only two are working as Emeritus Professors. They have been with the college for the last 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 who have successfully completed Ph.D work availing this scheme and who are doing Ph.D work availing the facility is furnished hereunder
- iv) Totally College has 35 Ph.D holders.

- v) College award 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, TA & DA and Registration Fee limited to Rs. 3,000/- is sanctioned by the College.
- vii) The College Management provides Budget for conducting workshops/seminars/conferences/sanctioning the funds

**List of faculty pursuing Ph.D. are:**

Cum. S.No.	S.No.	Name of the Faculty	Designation	University
<b>Civil Engg. (CE)</b>				
1	1	Ms. B. Uma Radha	Assoc. Professor	JNTUHA
<b>Computer Science and Engg. (CSE)</b>				
2	1	Prof. L.C. Siva Reddy	Prof. HOD & Vice Principal	Osmania University
3	2	Mr. K. VenkateswaraRao	Assoc. Professor	JNTUH
4	3	Mr. C. Ramesh	Assoc. Professor	JNTUH
5	4	Mr. M. Raghava	Assoc. Professor	UOH
6	5	Ms. A. VaniVathsala	Assoc. Professor	UOH
7	6	Mr. L. Venkateshwarlu	Assoc. Professor	JNTUA
8	7	Mr. Ch. Ram Mohan	Assoc. Professor	JNTUH
9	8	Mr. V. Dattatreya	Assoc. Professor	JNTUH
10	9	Mr. N. SrihariRao	Asst. Professor	JNTUA
<b>PG Programme:- M.Tech.(CSE)</b>				
11	1	Ms. Sunitha Maddhi	Sr. Asst. Professor	JNTUH
<b>Electronics &amp; Communication Engineering (ECE)</b>				
12	1	Wg. Cdr. Varghese Thattil	Professor & HOD	JNTUH
13	2	Mr. G. Ravi Shankar Reddy	Assoc. Professor	JNTUA
14	3	Mr. P. Srinivasa Rao	Assoc. Professor	JNTUH
15	4	Mr. Karrar Hussain	Assoc. Professor	JNTUH
16	5	Ms. K.A. Jyotsna	Assoc. Professor	JNTUH
<b>M.Tech. (VLSI Design)</b>				
17	1	Ms. V. Silpa Kesav	Asst. Professor	JNTUH
<b>M.Tech. (Embedded Systems)</b>				
18	1	Ms. T. Sravanti	Asst. Professor	Osmania University
<b>Electrical &amp; Electronics Engg. (EEE)</b>				
19	1	Ms. G. Sree Lakshmi	Assoc. Professor	JNTUH
20	2	Mr. B. Kalyana Chakravarthy	Assoc. Professor	Osmania University
21	3	Ms. R. Naveena Bhargavi	Assoc. Professor	Osmania University
22	4	Mr. Ch. Lokeshwara Reddy	Assoc. Professor	JNTUH
23	5	Mr. G. Manohar	Assoc. Professor	JNTUK
24	6	Ms. Ch. Sravani	Asst. Professor	JNTUK
<b>Electronics &amp; Instrumentation Engineering (EIE)</b>				
25	1	Ms. S. Harivardhagini	Assoc. Professor	JNTUH

<b>Information Technology (IT)</b>				
26	1	Prof. U.V. Ramana Sarma	Professor & Head	Osmania University
27	2	Mr. C.V.S. Satyamurthy	Assoc. Professor	JNTUH
28	3	Ms. H.N. Lakshmi	Assoc. Professor	UOH
29	4	Mr. B. Vikranth	Assoc. Professor	UOH
30	5	Mr. P.V.M. Seravana Kumar	Asst. Professor	Bharathiar
<b>Mechanical Engg. (ME)</b>				
31	1	Mr. M. Prem Swarup	Assoc. Professor	JNTUH
<b>Humanities &amp; Science (H&amp;S)</b>				
32	1	Ms. Vanitha Singi Reddy	Asst. Professor	Charansingh University
33	2	Mr. Kaniphnath Malhari	Asst. Professor	EFLU
34	3	Ms. Jaya Verma	Asst. Professor	EFLU
35	4	Mr. Raghavendera Kulkarni	Asst. Professor	IIT Madras
36	5	Mr. Sheik Ahammed	Asst. Professor	Osmania University
37	6	Mr. A. Venu Gopal	Asst. Professor	Osmania University
38	7	Ms. P.Saritha	Asst. Professor	Osmania University
39	8	Mr. V. Rama Krishna	Asst. Professor	Osmania University
40	9	Mr. P.V.S.H. Sastry	Asst. Professor	Osmania University
41	10	Mr.S. SambasivaSarma	Assoc. Professor	Osmania University
42	11	Ms. B. Geetha Devi	Asst. Professor	Osmania University
43	12	Mr. E. Uma Reddy	Asst. Professor	JNTUH
44	13	Ms. V. Swapan	Asst. Professor	Telangana University
45	14	Ms. K.T. Padma Priya	Asst. Professor	Osmania

### **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.

#### 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 <sup>th</sup> September, 2013
2	IEEE Student Branch	Industrial visit	24 <sup>th</sup> August 2013
3	IEEE-SB-WIE	Women's day celebration	7 <sup>th</sup> 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 <sup>th</sup> Aug, 2013
6	Guest Lecture under ISTE Students Chapter	Signal Processing Applications in Power Electronics and Control Systems	9 <sup>th</sup> Jan, 2014
7	Guest Lecture under ISTE Students Chapter	Smart Grid	28 <sup>th</sup> 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 <sup>th</sup> March 2014
12	Virtualization	Mr. KashyapIvaturi from Amazon	14 <sup>th</sup> 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

**Academic Year: 2012-13**

S. No.	Society / Chapter	Event	Date
1	ISTE	Photography on "Nature at its best"	Sep 2012
2	Guest Lecture under ISTE Students Chapter	Recent Advances in Electrical Engineering	26 <sup>th</sup> Oct.,2012
3	Guest Lecture under ISTE Students Chapter	Recent Advances in Power Systems	5 <sup>th</sup> March,2013
4	Guest Lecture under ISTE Students Chapter	Energy and Environmental problems facing third world and solutions	6 <sup>th</sup> March,2013

**Academic Year: 2011-12**

S. No.	Topic	Date	Details Of Invitees
1	Communications For Disaster Management	26-08-2011	Dr. Guna Shekher Reddy
2	Latest Advances in Communication	03-11-2011	Dr.Surendrapaul
3	Techniques of Broad Costing	03-11-2011	Mr.Harinath Babu
4	Guest Lecture under ISTE Students Chapter	July 2011	Controller Design of Missile Systems
5	Guest Lecture under ISTE Students Chapter	26 <sup>th</sup> ,August	Advances in Transformers
6	Guest Lecture under ISTE Students Chapter	22 <sup>nd</sup> ,November,2011	Synchro Phasor Deployment in Northern Grid of India
7	Guest Lecture under ISTE Students Chapter	March,2012	Missile Systems
8	Guest Lecture under ISTE Students Chapter	26 <sup>th</sup> Oct,2012	Recent Advances in Electrical Engineering

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

**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.
- 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:

- i) Academic staff college programmes
- ii) AICTE outcome based programmes
- iii) Refresher Courses
- iv) Short term programmes
- v) Workshops at other colleges
- vi) 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**

- **been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies 10%**
- **participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies 60%**
- **presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies 30%**
- **teaching experience in other universities / national institutions and others industrial engagement 20%**
- **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 1<sup>st</sup> 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?**
- 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. Suchi Tiwari, Asst. Professor in H&S department has been permitted to do post doctoral work with Osmania University.
2. 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 3<sup>rd</sup>/4<sup>th</sup> 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 1<sup>st</sup>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 are listed below.

The distribution is 30% marks for internal and 70% marks for external for theory subjects.

S.No.	Course	Internal Marks	End Exam Marks	Pass Marks
1	Theory	25	75	35% marks in end exam and not less than 40% in total
2	Lab	25	50	
3	Drawing	25	75	
4	Seminar	50	0	
5	Mini Project	20	30	
6	Final Project	50	150	
7	Comprehensive viva-voce	0	100	

**For M.Tech (PG)**

S.No.	Course	Internal Marks	End Exam Marks	Pass Marks
1	Theory	40	60	40% in end examination and 50% in total
2	Lab	40	60	
3	Seminar	50	-	
4	Comprehensive viva-voce	-	100	
5	Project	No marks. Only grades are allotted.		

**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 time taken for declaring results after 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 office of the Controller of Examination issues notifications for registration of End examination. Accordingly the examination fee is collected manually only. Based on that, Hall-tickets are generated and issued to the students.
- Based on the registration of the candidates invigilators are drafted at the ratio of 20 students per 1 invigilator.
- 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 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 Examination and Asst. Controllers just 5 min before commencement of examination as per room wise strength.
- Attendance sheets are collected from the halls after ½ hour of time.
- 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, the booklets are made into bundles of 40 booklets and the same are transferred to valuation halls.
- The valuation starts with the appointment of Chief Examiner, valuers and Scrutinizers.
- Chief Examiners prepare the key and conduct the meeting with evaluators and discuss about guidelines for valuation All the Answer booklets are evaluated. The Chief Examiner also reviews the answer booklets 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 in all respects, the entries of Award lists are done by double entry by two tabulators. After the two entries, an analysis is made and placed before the results Committee consisting of Principal, Dean- Academics, Vice Principal and Controller of Examinations to discuss within the rules and regulation of JNTUH and approve the results for declaration.
- After approval of the Result Committee, decoding is done with coding slips and after thorough verification, the results are declared on off-line and print form on the notice board.

#### **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. Asst. Controller of Examination – 3 (Confidential, conduct of examinations and Result process)
3. Consultants – 2
4. Programmers – 2
5. Sr. Asst. – 1
6. DTP Operators – 3
  - The Office of the Controller of Examinations is located in a protected area of the College
  - Entry in 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.

**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

**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 and ECIL have resulted in project execution by faculty members and students using current tools and state of the 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	Analytical Study of Structures using Structural Software	B. Uma Radha	CIVIL	Research Lab
4	Waste water quality testing and re-use from industrial effluents	S. Hari Kiran	CIVIL	Environmental Engineering Lab
5	Geological Study of Rock Formations	Dr. N. Narayana	CIVIL	Engineering Geology Lab
6	Software Engineering	Dr. K. Narender Reddy	CSE	Computer Programming/UNIX Programming Lab
7	Computer Networks	B. Rambabu	CSE	Computer Networks Case tool Lab
8	Information Systems	Prof. L. C. Siva Reddy	CSE	Web Technologies & CD Lab

9	Data Ware Housing and Data Mining	K. Venkateshwara Rao, C. Ramesh	CSE	Data Mining and Network Programming Lab
10	Antennas/Communications	Dr. K.S. Nayanathara	ECE	VNA, Digital Storage Oscilloscope
11	Communications/VLSI/ES	Prof. S. Sengupta	ECE	CADENCE tools, Kiel Software
12	Wireless Communications /Software Defined Radio	Prof. Varghese Thattil	ECE	GNU Radio and HackRF hardware
13	Embedded Systems	Prof. S. Subramanyam	ECE	KIEL Software, ARM Processors
14	Digital Design	Prof. C. Venkatrao Rao	ECE	Xilinx ISE Software, FPGA Kits
15	VLSI	Dr. T. Esther Rani	ECE	Cadence Tools
16	Adhoc Networking/Communications	Dr. Humaira Nishat	ECE	Communication Toolbox, Digital Storage Oscilloscope
17	Power Electronics & FACTS Devices	Dr. S. Venkateshwarlu	EEE	Power Electronics and Simulation Lab
18	Power systems	Dr. K. Dhanvantri	EEE	Power Systems Lab
19	Applications of Power Electronics to Power	Dr. N. V. V. Surendra Babu	EEE	Electrical Measurement Lab
20	Instrumentation and Control Systems	Mrs. S. Harivardhagini	EIE	LAB View Software and PID Controller
21	Electronics and Digital systems	O.Venkata krishna	EIE	Cadence Tools
22	Advanced Instrumentation Systems	P. Chodesh Varma G. Venkateswrlu	EIE	LAB View Software and PID Controller
23	Advanced Electronics and Communication	B. Satish	EIE	LAB View Software
24	English	Ms. Vanitha Singi Reddy	H&S	Advanced English Communication Lab
25	Mathematics	Dr. K. Satyanarayana	H&S	Computational Mathematics Lab
26	Applications of Neural Networks in Forecasting	Dr. M. Krishna Reddy	H&S	Statistics
27	Physics	Dr. E. Narsimhacharyulu	H&S	Physics Lab
28	Chemistry	Dr. Suchi Tiwari	H&S	Chemistry Lab

29	Operating Systems/ Network Security	Prof. U.V. Ramana Sarma	IT	UNIX & Shell prog. Lab.
30	Computer Networks/ Computer Forensics	Dr. B. B. Jaya Singh	IT	Computer Networks Lab
31	Embedded Systems	Dr. R. Seetha Ramaiah	IT	Embedded System Design Lab
32	Production Engineering	Dr. T. A. Janardhan Reddy	MECH	Machine Tools Lab
33	Production Engineering	Dr. S. Deva Prasad	MECH	CAD/CAM 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.

#### ➤ **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 from Govt. of India
3. XY recorder, under vehicle scanner—ECE, MECH, EEE—in progress
4. Quad copters—ECE, MECH, EEE, CSE—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.

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)

### 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	Mr.Krishna Sandepudi, Vice President, Aarvee Associates Pvt.Ltd, Hyderabad	Behavior of Continuous Structures & Segmentally constructed Bridges	17 <sup>th</sup> October 2014
2	Mr.P.D.Varadarajan, Vice President, VASCON Engineers Ltd, Pune	Shuttering Systems& their significance in construction sector	14 <sup>th</sup> October 2014
3	Mr.M.Sridhar, Vice President, SEW Infrastructure, Hyderabad	Career Opportunities & Employable Skills for Civil Engineers	22 <sup>nd</sup> September 2014
4	Dr.K.Srinivasa Raju, Professor, BITS Pilani, Hyderabad	Recent developments in water resources Engineering-Case studies	12 <sup>th</sup> August 2014
5	Dr.M.V.Seshagiri Rao, Professor, JNTU, Hyderabad	Latest Developments in Concrete Technology	23 <sup>rd</sup> January 2014
6	Mr.M.V.Ramana Murthy, Executive Engineer, APGENCO, Hyderabad	Planning & Construction of Hydro Power Projects	27 <sup>th</sup> December 2013
7	ICAI	Investor Awareness Program	2014
8	Mr. K. Amarnath, IIT Bombay	Password Security by Captchas	2014
9	Mr.Kashyap Ivaturi from Amazon	Virtualization	14 <sup>th</sup> April 2014
10	Dr. Atual Negi, Professor, School of Computer& Information Science University of Hyderabad	Computational Intelligence and Excitements	28 <sup>th</sup> March 2014
11	Kausik Sirineni Ms, University of Texas at Dallas	Augmented reality	6 <sup>th</sup> January 2014
12	RaghuVeer, Software Engineer, IBM	Personality Development	23 <sup>rd</sup> November 2013
13	RaghuVeer, Software Engineer, IBM	Software Development using Java	23 <sup>rd</sup> November 2013
14	Dr. Cyril Prasanna Raj, Dean-Research MSR Engineering College, Bangalore	ISRO funding and national science & Technology Entrepreneurship Development Board Funding(NSTEDB)	27 <sup>th</sup> November,2014
15	Dr.B.L.Deekshathulu, Former Director,NRSA	Advances in Digital Image Processing	7 <sup>th</sup> October, 2014
16	Prof.V.M.Pandharipande	Smart Antennas	(As part of Distinguished Lectures for initiation of Research Activities)
17	Prof.A.D.Sarma, Professor,OU,Former Director R&T unit of Navigational Electronics	Navigation Electronics	
18	Prof.K.S.Bapi Raju, UOH	Functional MRI & Appls.	

19	Dr.A.Senthil Kumar, Scientist NRSC	Image processing in remote sensing	8 <sup>th</sup> October, 2014
20	Dr.Anil Kumar, Professor, IIT-H.	Current topics and challenges in Speech processing	(As part of Distinguished Lectures for initiation of Research Activities)
21	Prof.V.Umapathi Reddy, Visiting Professor, IITH	Basics of Digital Signal Processing and communications	
22	Dr.K.Veerabhadra Rao,Former Scientist Defence labs	Digital Signal Processing for Biomedical applications	
23	Mrs.Lakshmi Tiwari, Scientist E, DLRL, Hyderabad	Satellite Communications and Electronics Warfare for communications	29 <sup>th</sup> January, 2014
24	Dr.Aravind Kumar Bhatt	Nano technology: Opportunities in life sciences	11 <sup>th</sup> December,2013
25	Mr.T.S. Rashad, Scientist E, VLSI Division of RCI,DRDO	Latest trends in VLSI Design	25 <sup>th</sup> November,2013
26	Mr.Harinath Babu	Techniques of Broadcasting	3 <sup>rd</sup> November, 2011
27	Dr.Surendra Pal	Latest Advances in communication	3 <sup>rd</sup> November, 2011
28	Dr.Gunashekhar Reddy, DIG of Police Commn. Hyd.	Communications for Disaster Management	26 <sup>th</sup> August, 2011
29	S.Eshwar Rao, Sr.Manager, BHEL R&D	Role of STATCOM in power systems	22 <sup>nd</sup> September 2014
30	Mr.Mahesh, Executive Engineer, Power Grid Corporation, India	Smart Grid	17 <sup>th</sup> February, 2014
31	Dr.V.T.Soma Shekar, Professor, NIT Warangal	Power Electronics and Applications	5 <sup>th</sup> February, 2014
32	Mr.Chamarthi Srinivas, CEO,CYME Solutions Pvt.Ltd	Signal Processing Applications in Power Electronics and Control systems	9 <sup>th</sup> January, 2014
33	Dr.D.P.Kothari, Retd.Professor,IIT Delhi, Ex.V.C.VIT,Vellore	Energy and Environmental Problems facing the third world and solutions	6 <sup>th</sup> March, 2013
34	K.B.Rju, Ex.AGM BHEL R&D	Recent Advances in Power systems	5 <sup>th</sup> March, 2013
35	M.V.Ramana Murthy, Executive Engineer, APGENCO	Planning and construction of Hydro power plants	27 <sup>th</sup> December, 2013
36	Dr.N.K.Kishore, Professor, EEE Dept., IIT Khargpur	Recent Advances in Electrical Engineering	26 <sup>th</sup> October, 2012
37	R.Sundara Rajan, Scientist-G, DRDL,Hyderabad	Missile Systems	March 2012
38	Prof.Kiran Kumar Jain, Rtd S.E,Madhya Pradesh State Electricity Board	Synchro Phasor Deployment in Northern Grid of India	22 <sup>nd</sup> Nov 2011

39	Mr.Bangar Raju, Additional General Manager,BHEL(Rted.)	Advances in transformers	26 <sup>th</sup> August,2011
40	R.Sundara Rajan, Scientist-G, DRDL,Hyderabad	Controller Design of Missile systems	July 2011
41	Mrs.R.Sravanthi, Manager ,L&D Infotech, Hyderabad	Corporate communication	1 <sup>st</sup> November 2008
42	Mr.V.Madhukar, Branch Manager,Prolific Systems, Hyderabad	Industrial Automation and Career Options	13 <sup>th</sup> September, 2011
43	Mr.D.S.R.B.N.Baba, Superintendent Engineer(Rtd),D.D.Kendra Hyderabad	Maintenance of Studio Equipments	3 <sup>rd</sup> November, 2011
44	Mr.H K Mohanty Professor in HCU	Computational Social Science: Introducing an Emerging Area	25 <sup>th</sup> March 2014
45	Mr.Sarangadhar Tripathy, Software Solution Architect in HP	Ethical Hacking and Counter Measures	8 <sup>th</sup> October 2013
46	Mr.S.Pani Kumar, Sr. System Engineer(QA), IBM India Pvt Ltd	Ethical Hacking and Counter Measures	11 <sup>th</sup> October 2012
47	Mr. Sarangadhar Tripathy, Sr. Technical Consultant, IBM	Basics of Testing	9 <sup>th</sup> November 2011
48	Prof.N.S.Ramachandra Rao,IIT Madras	Physics and applications of Nano structures and advanced materials	6 <sup>th</sup> June, 2014
49	Dr.M.Krishana Reddy, Prof. in Statistics	Applications of Statistics in real life	1 <sup>st</sup> February, 2014
50	Dr.K.Satyanarayana, Prof.in Mathematics	Application of Fibonacci numbers	5 <sup>th</sup> October, 2013
51	Dr.D.Sudheer Reddy, Scientist-E ISRO	Sparse representations and their applications	20 <sup>th</sup> September,2014

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	K. Venkateshwara Rao	CSE	Associate Professor	Study leave for 8 Months
2	A. Vani Vathsala	CSE	Associate Professor	Study leave for 7 Months (2 times)
3	C. Ramesh	CSE	Associate Professor	Study leave for 7 Months(2 times)
4	Ch. Ram Mohan	CSE	Associate Professor	Study leave for 7 Months
5	C. V. S. Satyamurthy	CSE	Associate Professor	Study leave for 7 Months
6	M. Raghava	CSE	Associate Professor	Study leave for 4 Months & 7 Months
7	B. Rambabu	CSE	Associate Professor	Study leave for 7 Months
8	Prof. Vargese Thatill	ECE	Professor	Study leave for 7 Months (2 times)
9	Dr. T. Esther Rani	ECE	Associate Professor	Study leave for 7 Months
10	P. Srinivasa Rao	ECE	Associate Professor	Study leave for 1 Months
11	Dr. Humaira Nishnat	ECE	Associate Professor	Study leave for 2 Months
12	Mr. Karar Hussain	ECE	Associate Professor	Study leave for 7 Months
13	Mrs. K. A. Jyotsna	ECE	Associate Professor	Study leave for 7 Months
14	Mrs. G.Sree Lakshmi	EEE	Associate Professor	Study leave for 7 Months
15	Mrs. R. Naveena Bhargavi	EEE	Associate Professor	Study leave for 7 Months
16	Mr. T. Murali Krishna	EEE	Associate Professor	Study leave for 7 Months
17	Mr. B. Kalyanchakravarthi	EEE	Associate Professor	Study leave for 7 Months
18	Mr. P. Nagaraju	EEE	Associate Professor	Leave for Paper presentations
19	Mrs. S. Harivardhagini	EIE	Associate Professor	Study leave for 7 Months(2 times)
20	Ms. Vanitha Singireddy	H&S	Asst. Professor	Study leave for 2 Months
21	Dr. Suchi Tiwari	H&S	Asst. Professor	Study leave for 3 years
22	Dr. Raghavendra Kulkarni	H&S	Asst. Professor	Study leave for 5 Months
23	Mr. P. V. S. H. Sastry	H&S	Asst. Professor	Study leave for 7 Months
24	Dr. R. Seetharamaiah	IT	Professor	Study leave for 7 months(2 times)

25	Prof.U.V.Ramana Sarma	IT	Professor	Study leave for 7 months
26	Dr. K. Narender Reddy	IT	Professor	Study leave for 7 months(2 times)
27	Mrs. H. N. Lakshmi	IT	Associate Professor	Study leave for 7 Months
28	Mr. B. Vikranth	IT	Associate Professor	Study leave for 7 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	H. N. Lakshmi	IT	Associate Professor	Weekly off
16	B. Vikranth	IT	Associate Professor	Weekly off
17	Mr. P. Sainath	MECH	Assistant Professor	Weekly off
18	Mr. G. Naveen Kumar	MECH	Assistant Professor	Weekly off
19	Ms. A. Vani Vathsala	CSE	Associate Professor	Weekly off
20	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	Conference on Computer Vision Industry Institute Partnership Cell(IIPC)	Mr. Chakravarthy, DRDL	6 <sup>th</sup> -7 <sup>th</sup> March, 2014
2	Three day Training on Cadence Tools(Installation & Practice)	Mr.Sharath, Cadence Design Systems, Bangalore	10 <sup>th</sup> -12 <sup>th</sup> November, 2014
3	Workshop on VLSI Design using Xilinx Tools	Mr.M.Sharath Kanth, Xilinx	2 <sup>nd</sup> -3 <sup>rd</sup> December 2010

4	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 <sup>th</sup> to 22 <sup>nd</sup> November 2013
5	Workshop on Graphical System Design using LabView	Experts from Trident Tech Labs Ltd and NI Application Engineers.	4 <sup>th</sup> -5 <sup>th</sup> November,2011
6	CAD/ CAM for Enhanced Quality	Osmania University, DRDL, NIT - Warangal	21 <sup>st</sup> – 23 <sup>rd</sup> February, 2013
7	Formulatinis of Research and Development Initiatives	Osmania University, IIITH, HCU and DRDL	14-15, November 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).**

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.

All the above mentioned research findings are indicative of the initiative taken for research findings to be transferred to the community.

**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	PhD Guidance	As Ph.D Guide	Dr.K.V.Chalapathi Rao	Guided 7 Ph.D scholars 3 are working	CSE
2	Ph.D Guidance	As Ph.D Guide	Dr. M. Krishna Reddy	Guided 14 Ph.Ds, 10 M.Philss & 15 NBA Projects	H&S
3	Individual	Ph.D-Data Mining	C. V. S. Satya Murty	JNTU Hyderabad	CSE
4	Individual	Ph.D-Software Engineering	K. Venkateswara Rao (Thesis Submitted)	JNTU Hyderabad	CSE
5	Individual	Ph.D-Semantic Web Usage Mining	C. Ramesh	JNTU Hyderabad	CSE
6	Individual	Ph.D-Image Processing	M. Raghava	University of Hyderabad	CSE

7	Individual	Ph.D-Adhoc Sensor Networks	Ch. RamMohan	JNTU Hyderabad	CSE
8	Individual	Ph.D-Adhoc Sensor Networks	B. Rambabau	Osmania University	CSE
9	Individual	Ph.D-Software Engineering	V. Dattatreya	JNTU Hyderabad	CSE
10	Individual	Ph.D Web Services	Ms. A. Vani Vathsala	UOH	CSE
11	Individual	Ph.D-Adhoc SensorNetworks	M. Suneetha	JNTU Hyderabad	CSE
12	Student Research projects	Ph.D Guidance	Dr. Nayanathara K.S	Guiding 3 Ph.D scholars	ECE
13	Research Project	1. Development of OFDM 2. Design of DAS Hardware 3. Design of DAS Software	Prof. S. Sengupta	DRDO	ECE
14	Research Project	Development of OFDM	Mr. R. Ganesh	DRDO	ECE
15	Research Project	1. Design of DAS Hardware 2. Design of DAS Software	Mr. K. Bapayya	DRDO	ECE
16	Research Project	Design of DAS Software	Mrs. M. Rupa	DRDO	ECE
17	Individual	Ph.D	Dr. T. Esther Rani	JNTUH	ECE
18	Individual	Ph.D	Dr. Humaira Nishat	JNTUH	ECE
19	Individual	Ph.D	Mrs. A. Bharathi	OU	ECE
20	Individual	Ph.D	Mr. G. Ravi Shankar		ECE
21	Individual	Ph.D	Mr. Karar Hussain	JNTUH	ECE
22	Individual	Ph.D	Mr. P. Srinivasa Rao	JNTUH	ECE
23	Individual	Ph.D	Mrs. K. A. Jyotsna	JNTUH	ECE
24	Individual	Ph.D	Mrs. Dhruva R. Rinku		ECE
25	Research Project	Solar Power Plant	EEE Department	CVR College of Engg	EEE
26	Student Research projects	PhD Guidance	Dr. S. Venkateswarlu	JNTUH/2012	EEE
27	Student Research projects	Ph.D Guidance	Dr. A. D. Raj Kumar	1-O.U. 2-JNTU	EEE

28	Student Research projects	Ph.D Guidance	Dr. Dhanvanthri	JNTUH/2013	EEE
29	Individual	Ph.D-Analysis of Multilevel Inverters for Permanent Magnet Synchronous Motors	G. Sree lakshmi (Thesis Submitted)	JNTUH	EEE
30	Individual	Ph.D-Analysis of fault tolerant control system for improving the performance of FACTS controllers	R. Naveena Bhargavi	OU	EEE
31	Individual	Ph.D-Variable voltage and variable frequency controllers for 3 phase Induction motors	B. Kalyana Chakravarthy	OU	EEE
32	Individual	Ph.D-Multilevel inverters fed PMSM	A. Naveen Kumar	NU	EEE
33	Individual	Ph.D-Control strategies for Multilevel Inverters	Ch. Lokeshwar Reddy	JNTUH	EEE
34	Individual	Ph.D-Implementation of Artificial Intelligent Techniques for Electrical Distribution Systems to improve voltage profile to minimize losses by Re-Config.	I. N. Swamy	JNTUH	EEE

35	Individual	Ph.D	Mr. G. Manohar	JNTUK	EEE
36	Individual	Ph.D	Mrs. Sravani	JNTUK	EEE
37	Individual	Ph.D	Mrs. S. Harivardhagini	JNTUH	EIE
38					
39	PhD Guidance	As Ph.D Guide	Dr.B.B.Jaya Singh	Guiding 5 PhD scholars	IT

### 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  
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 Asst. Professor	Rs. 95,000	EEE
4	Investigation into PAPR in Wireless Communications	Ms. T. Padmawathi Asst. Professor Ms. T. Shravanthi Asst. Professor	Rs. 59,800	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 120KW solar power plant	CVR College of Engg /Govt. of India/ PEC(P) Ltd	Rs.114 lakhs with subsidy of Rs.30 lakhs
	2014-15	Design of Diode Clamped Multilevel Inverter	CVR College of Engineering	Rs. 95,000
	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 6<sup>th</sup> and 7<sup>th</sup> 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 MHRD for starting a Center of Excellence (CoE) at CVR College of Engineering. 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.

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. Large 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.

#### 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

**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

**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 by the DRDO and ECIL to execute projects on development of OFDM, DAS Hardware and DAS Software, Computer Vision-Video Analytics, design of Indigenous MRI etc.

**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 27<sup>th</sup> -28<sup>th</sup> 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 Technoloegis,ACCT-2010, Vaish College of Engineering, Rohtak, Haryana, 25-26 June 2010.
5. 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.
6. Prof.Varghese Thattil presented a paper titled: “Stochastic modeling and availability estimation of redundant array of independent disks” in the 2<sup>nd</sup> National Conference Computer Networks and Information Security (NCCNIS-2013) Hyderabad ,on 30-31 January 2013.
7. 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.
8. Mr. G.Manohar, Assoc. Prof of EEE Dept. presented a paper titled “HVDC Connection of OffShore Power Plants”, in an International Conference on “Electrical and Electronics Engineering”, at Tirupathi, in June, 2012.
9. 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 29<sup>th</sup> -30<sup>th</sup> September, 2012.
10. 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 29<sup>th</sup> – 30<sup>th</sup> September, 2012.
11. Dr. M. Sasikala, Professor of EEE Dept. presented a paper titled “Studies on Dc Conductivity and LPG Sensing Behaviour of PANI/CCO<sub>2</sub> Composites”, in an International Conference on Recent Advances in Material Science (RAMS-2012) organized by Karnataka State Higher Education Council at Bangalore from 6<sup>th</sup> – 8<sup>th</sup> November, 2012.
12. 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 10<sup>th</sup> March, 2013.

13. 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 6<sup>th</sup> -8<sup>th</sup> Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.
14. 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 55<sup>th</sup> Annual Technical Conference 2012, conducted by Institute of Electronics and Telecommunication Engineers at Bangalore on 28<sup>th</sup>-29<sup>th</sup> September, 2012.
15. 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.
16. 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 12<sup>th</sup> International Conference of Algorithm and Parellel Processing in Fukuoka ,Japan on 4<sup>th</sup> – 7<sup>th</sup> September 2012.
17. 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 4<sup>th</sup> International Conference, Dec-2012.
18. 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.
19. Prof. T.A. Janardhan Reddy, Professor published a paper titled: “Study on the mechanism of flow forming: (AREVIEW)” in the 2<sup>ND</sup> International conference on Advancement in Engineering and Management, RIST, ICAEM-2013 on 27&28 Feb2013.
20. Mr. T. Balaji Gupta presented a paper titled: “Supply Chain Management in Indian context” in the 6<sup>th</sup> international conference on Contemporary Business on 8<sup>th</sup> – 10<sup>th</sup> November 2012 at IIT Delhi.
21. 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.
22. Dr. M. Krishna Reddy presented a paper titled: “Scaling Techniquers 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.

23. 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.
24. 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 30<sup>th</sup> November to 2<sup>nd</sup> December 2014 at Department of Statistics, S.V.University, Titupati, A.P.
25. 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.
26. 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).
27. 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.
28. Mr. V. Dattatrya, Dr. K.V. Chalapati Rao "Integrated Approach of Agile Programming and Design Patterns – Case Study", INDIACom 2011, Delhi.
29. Mr. M.Raghava "Spatial Arisotropic Intigratrion Approach for Text Removal from an Image" in Multi-Disciplinary Trends in Artificial Intelligence, 7<sup>th</sup> Internatinal Workshop, MIWAI 2013, Krabi, Thailand – Dec 9-11, 2013 (Springer Proceedings).

There are many more faculty having publications:

➤ **Publication per faculty**

**CIVIL**

S. No	Faculty name	No. of Publications
1	Dr. T. Muralidhara Rrao	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 Punnala	1

**CSE**

<b>S. No</b>	<b>Faculty name</b>	<b>No. of Publications</b>
1	Dr K V Chalapati Rao	40
2	Prof.N.V.Rao,	3
3	Dr. K. Narender Reddy	5
4	Mr.K Venkateswara Rao	6
5	Mrs. A.VaniVathsala	6
6	Ms.M.Sunitha,	5
7	Ms. Patel Pritibahen Sumanbhai	2
8	Mr.V.Krishnaiah	2
9	Mr.C.Ramesh	2
10	Mr.V.Dattatreya	1

**ECE**

<b>S. No</b>	<b>Faculty name</b>	<b>No. of Publications</b>
1	Prof.S.Sengupta	02
2	Wg.Cdr.VargheseThattil	04
3	Dr.T.EstherRani	06
4	Dr.Humaira Nishat	10
5	Mrs.K. A. Jyotsna	01
6	Mrs.P.Kavitha	02
7	Mrs.Dhruva R.Rinku	05
8	Mr. Shakeel Ahmed	01
9	Mr.K.Bapayya	01
10	Mr.B.Janardhana Rao	08
11	Mr.R.Ganesh	07
12	Mrs.V.Silpa Kesav	02
13	Mr. M. Srinivas	02

**EEE**

<b>S. No</b>	<b>Faculty name</b>	<b>No. of Publications</b>
1	Dr. A. D. Rajkumar	45
2	Dr. S. Venkateshwarlu	7
3	Dr. K. Dhanvanthari	10
4	Dr. N. N. V. Surendra babu	6
5	G. Sreelakshmi	14
6	G. Manohar	4
7	B. Kalyana Chakravarthi	1
8	R. Naveena Bhargavi	2
9	A. Naveen Kumar	2
10	Ch. Lokeshwar Reddy	5
11	P. Rajesh Kumar	4
12	Rajib Kumar Kar	2
13	P. Vinod kumar	1
14	E. Himabindu	1



15	K. Suman	7
16	D. Srinadh Reddy	1
17	P. Sudeepika	4
18	C. Krishna Reddy	1
19	Santosh Kulakarni	1
20	Ch. Shravani	4
21	M. Apparao	1

**EIE**

S. No	Faculty name	No.of Publicaitons
1	Dr. M. S. Bhat	15
2	Prof. S. Narayana	6
3	S. Harivardhagini	9
4	N. Akshay	8
5	B. Satish	1
6	O. Venkata Krishna	7
7	D. Satish kumar	1
8	V. Sreelatha Reddy	1
9	G. Venkateshwarlu	4
10	P. Choudesh Varma	1
11	P. Venkata Gopi kumar	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	Dr. M.Krishna Reddy	25
2	Dr. Rafiuddin	13
3	Dr. D. Shankaraiah	3
4	Dr. G. Mallikarjun Reddy	6
5	Dr. G. Sreedhar Sarma	3
6	Mr. J. Ramesh Babu	2
7	Dr. D. Linga Reddy	6
8	Dr. V. Seetha Rama Raju	1
9	Dr.(Mrs.) Shuchi Tiwari	1
10	Ms. P. Saritha	6
11	Dr. K. Venkatesan	5
12	Mrs. Vanitha Singireddy	1
13	Mrs. K.T. Padma Priya	2
14	Dr. K. Navatha	10
15	Ms. Jaya Verma	2
16	Mrs. B. Geetha Devi	4
17	Dr. P. Vanishree Sah	13

- **Faculty serving on the Editorial Boards of National and International Journals**  
CVR journal editorial board
- **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](http://www.ijsdia.org).

**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:**

- **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	2013-14	14
2	2012-13	15
3	2011-12	15
4	2010-11	6

#### **ECE**

S. No	Year	Number of Publications
1	2013-14	12
2	2012-13	18
3	2011-12	23
4	2010-11	07
5	2009-10	03

**EEE**

A total of 123 papers are published over the last five years.

S. No	Year	Number of Publications
1	2013-14	08
2	2012-13	28
3	2011-12	40
4	2010-11	06

**EIE**

S. No	Year	Number of Publication
1	2014-15	10
2	2013-14	17
3	2012-13	5
4	2011-12	2
5	2010-11	19

**H&S**

S. No	Year	Number of Publication
1	2014	7
2	2013	21
3	2012	14
4	2011	29
5	2010	7
6	2009	7

**IT**

S. No	Year	Number of Publication
1	2013-14	5
2	2012-13	20
3	2011-12	11
4	2010-11	3

**MECH**

S.No	Year	Number of Publications
1	2012-13	07
2	2011-12	06
3	2010-11	02

(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.

- **Chapters in Books**
- **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.)

- **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)
  - 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	Prof P. Subrahmanyam	5
5	Dr T.Esther Rani	11
6	Dr.Humaira Nishat	7
7	Mr. G. Ravi Shankar reddy	2
8	Mr .Karrar Hussian	5
9	Mrs K.A.Jyotsna	10

10	Mr P.Srinivas Rao	3
11	Mrs.R.Dhruva Rinku	12
12	D. Bhanu Prakash	2
13	Mrs.T.Padmavathi	5
14	Shakeel Ahmed	6
15	Mrs K.Venkata Laxmi	7
16	Mr R.Ganesh	12
17	Mrs. V.Sreelakshmi	9
18	Mrs Athira G.Krishna	5
19	Mrs M.V.N.Sushmuna	4
20	Mrs.V.Silpa Kesav	5
21	Mr M.Ashok	6
22	Mr K.Bapayya	11
23	Mr. B. Janardhan Rao	2
24	M. Vinod Kumar	2
25	S. Sailaja	3
26	M. Srinivas	1
27	Mr. R. Prakash Kumar	2
28	Mr. L. Manjunath	2
29	Mrs P. Kavitha	2
30	Mrs. G.V. Mahalakshmi	1
31	Mr. Abdul Nasar	1
32	Mrs.P. Naga Malleswari	1
33	Mr. B. Ravinder	1
34	Mr. S.L. Narsimha Reddy	2
35	Mrs. T. Sravanthi	1
36	Mr. Ravikanth	1

37	Dr. K. Dhanvanthri	4
38	Mr. G. Manohar	4
39	Mr. B. Kalyana Chakravarthy	1
40	Mrs. R. Naveena Bhargavi	2
41	Mr. Rajib Kumar Kar	1
42	Ms. E. Hima Bindu	3
43	Mr. G. Janardhan	4
44	Mr. K. Suman	4
45	Mrs. M. Rajasree	2
46	Ms. P. Sudeepika	1
47	Prof. L.C. Siva Reddy	3
48	Prof. N.V. Rao	4
49	Mr. C. Ramesh	4
50	Mr. L. Venkateshwarlu	3
51	Mr. Ch. Ram Mohan	5
52	Mr. M. Raghava	5
53	Mrs. A. Vani Vathsala	4

S.No	Name of Faculty	M.Tech/M.Phil.	No. of Ph.D scholars
1	Dr. T.A. Janardhan Reddy	65	5
2.	Dr. K.V. Chalapathi Rao, Prof. of CSE & Dean Research	--	8
3.	Dr. Bipin Bihari Jayasingh	9	5
4.	Dr. M. Krishna Reddy	10	14

### 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 award 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
- 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.
- IEEE members
  - Dr. Nayanathara K.S (Senior Member)
  - Prof. N. V. Rao (Senior Member)
  - Prof. C. Venkat Rao (Senior Member)
  - Dr.S.Venkateshwarlu
  - Dr.N.N.V. Surender Babu
  - 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, Research Projects. 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:

1. Development of Orthogonal Frequency Division Multiplexing
2. Development of Data Acquisition System Hardware
3. 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.

#### 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)

EEE, ME—Solar power plant installation

IIC-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.

#### 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 with 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	2013-2014	2012-2013	2011-2012	2010-2011
1	DRDO , Hyderabad DAS Hardware	880000			
2	DRDO , Hyderabad OFDM		900000		
3	DRDO, Hyderabad DAS Software	870000			

**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.

The NSS Unit of CVR College of Engineering conducted the following activities during the years 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.
- THE SPECIAL CAMP AT MANGALPALLI (V) DURING 2<sup>nd</sup> DECEMBER 2011 TO 9<sup>th</sup> 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 6<sup>th</sup> 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 6<sup>th</sup> 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 2<sup>nd</sup> Jan 2014. 25 trainers from B.Tech 3<sup>rd</sup> 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 16<sup>th</sup> October 2014 in the afternoon 2.30pm to 5.30 pm in the College premises.

### **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 6<sup>th</sup> November 2013. Mr. Azmath 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 2<sup>nd</sup> Jan 2014. 25 trainers from B.Tech 3<sup>rd</sup> 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., 14<sup>th</sup> 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 14<sup>th</sup> 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.



List of activities and programmes under NSS:

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, maglapallizpss High school visit Computer awareness, higher education awareness and quiz programmes were conducted to the 8 <sup>th</sup> ,9 <sup>th</sup> and 10 <sup>th</sup> class students.

5	08.12.2011	Clean and Green Programme	Volunteers formed into groups and conducted clean and green activities
6	09.12.2011	Financial literacy/awareness among the villagers	Survey conducted by the volunteers in the village and educated the villagers

**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)

**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.

**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 alumni and alumni with faculty and management.

**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., 14<sup>th</sup> 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 14<sup>th</sup> 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.

### 3.7.2 Mention specific examples of, how these linkages promote

#### ➤ Curriculum development

Experts from industry are on Boards of Studies of all departments and the Academic Council. They provide inputs as 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 enclosed.

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

➤ **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.

**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.  
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.  
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.
3. MOU was signed between CADENCE, New York and CVR College of Engineering in 2004 in the presence of V.C. JNTU.  
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. Another 3 day training programme was organized on Cadence Tools, Installation and Practice by Mr. Sharath, Cadence Design Systems, Bangalore.
4. 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.
5. Collaboration with IIT 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.
6. Collaboration with EME, 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.
7. 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
8. 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	<ul style="list-style-type: none"> <li>Concrete Lab equipped with Automatic Compression Testing Machine of 3000 kN capacity.</li> <li>Advanced Structures Lab equipped with Nondestructive Testing facilities</li> </ul>
2	CSE/IT	<p>Virtusa Centre of Excellence (under establishment) IBM Server</p> <p>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.</p> <p>Existing labs for II, III, IV year were upgraded with Inter Core 2 Duo, Server</p>
2	ECE	<ul style="list-style-type: none"> <li>VNA, 200MHz Digital Storage Oscilloscope in Microwave &amp; Communications lab</li> <li>VLSI Design tools from Cadence Design Systems as part of Cadence University Program.</li> <li>MS2711E Spectrum Analyzer with frequency range 9 KHz to 3GHz—ECIL</li> <li>DS1102E Digital Storage Oscilloscope with 100MHz frequency –DRDL</li> </ul>
3	EEE/EIE	<ul style="list-style-type: none"> <li>Proposed Factory Automation Engineering Centre worth Rs 8 lakhs to be set up by Mitsubishi in CVRCE</li> <li>Thermocouple Module</li> <li>PLC Trainer with Scada by Multitech Systems</li> </ul>

## 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 45673 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, EEE 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 utilized from this academic year 2014-15
- The College Governing Council approves the plans for enhancement of infrastructure
- Library Advisory Committee consisting of Head 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:

S.NO	Name of Building	Building ID	Built up Area
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	BH	4160
9	LIBRARY	Lib.	1798
10	STUDENT CENTRE	SC	3364
11	FIRST YEAR BLOCK	IY	8822
12	AC ROOF BUILDING -5	AC5	390
			45673 Sq.m.

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	64	4714
	Tutorial Rooms	16	823
	Laboratories	95 Units (each of 66 Sq.m. min)	7675
	Workshop	2	205
	Computer Centre	1	205
	Drawing Halls	2	388
	Library & Reading Room	1	1553
M.Tech.	Seminar Hall	7	979
	Class Rooms	15	802
	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.

**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 placement, 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 62.5 KVA, 125 KVA & 250 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.

A separate Diesel Generator set of Cummins 380 KVA has been installed recently. The investment cost is about Rs.22 Lakhs. Special features are:

- The delivery has lowest life cycle cost.
- Serves long term needs.
- It has optimum performance and serviceability over the complete operating range.

**Power Backup:**

UPS facilities for power backup of the following:

- i) 20 KVA - 6 Nos.
- ii) 10 KVA - 3 Nos.
- iii) 3 KVA - 8 Nos.

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) recently.

With the increasing energy demands we took an initiative to generate and utilize ecofriendly 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 kWP 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 kWP 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 5000Lts 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 CO<sub>2</sub> emissions. This shows our dedication towards the dependency on green power harvesting which will send a positive sign to the students.

#### **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 240 – the boys hostel is provided in the campus with dining and kitchen.

Girls : 100 – hostel facility for girls with an MOU with a private hostel in city Recreational facilities in hostels:

Outdoor and Indoor Sports Facility in the campus is fully utilized by hostel boys.

Broadband 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.

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 Arts Club formed by students and they are encouraged to show case their talent in the form of exhibitions.

**4.2. Library as a Learning Resource**

A three storied exclusive Library Blok is available for library usage

**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.): 1800 Sq. mts, in three floors

Total seating capacity : 350

Working hours

On working day : 9:15 am to 6:00 pm

On Holidays: : 9:15 am to 4:00 pm

Before Examinations : 9:15 am to 6.00 pm

After Examinations : 9:15 am to 6.00 pm

During vacation : 9:15 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:



<b>4.2.3 Give details on the library holdings</b>	<b>Total No</b>
a) Print (Books, back volumes and thesis)	57278
b) Non Print (Microfiche, AV): (CD/DVD)	4462
c) Electronic (e-books, e-journals) databases	1786
d) Special collection (E.g. Textbook, Reference books, standards, patents) Book Bank for SC/ST students.	12113

#### **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	25+15+10 MBPS
Content Management system for e-learning	NPTEL Video streaming courses have been uploaded to server
Participation in Resource sharing networks/consortia (like Inflibnet)	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
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 the 2014-15: Rs. 25,00,000/-

**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.**

1. All departments have Departmental libraries. Central library transfers respective books to them periodically to ensure access to the concerned faculty.
2. 20 systems are installed in the library for digital access.
3. 20 head phones are in use to access NPTEL /Video programmes.
4. LCD Projector is available for presentations and screening.
5. New server is installed for E-Learning, Digital Library and Library Automation
6. Scanner, Bar-Code Scanner, Bar Code Printer are available for use.
7. 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 ( 2011-14)**

- 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 2<sup>nd</sup> 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.

### **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.
April 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
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
11-08-2012	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

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 , 4 <sup>th</sup> Gen / 2 GB DDR3 RAM/ 500GB SATA HDD / 18.5 “ LED Backlit wide Monitor	250	53,62,500

**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, quard 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, quard core Intel Xeon(M915HN/A)3,8GBDDR-III RAM, 1TB HDD, DVD Drive	1	1,72,403
Jan 2012	HP Prolient ML 110 G7 server 8GB RAM, Intel Xeon E3-121D,3.1 GHz	4	1,76,400
March 2014	IBM server X3300 M4, 7382ILA, DELL 18.5” LED Monitors	3	3,44,295 17,400

**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

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
-------------------------------	--	-----------

➤ 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)**

The list of major software which we have is appended below.

AutoCAD Suite	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
MSDN Subscription (ALL major Microsoft software/tools)	ETABS
PTC Creo 2	SAP (Civil Engg)
Mastercam	PSpice
Adobe Reader etc.	LabView
RS Logix 500	RS View 32
8051 IDE	RS Linx
Various open-source software OSes/packages such as Ubuntu OS,	Versapro
Openbravo ERP etc	Mac OS X Lion
Auto Inverntor CAD-2014 (Computer Aided Design Software)	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.

Periodic review is done to see that latest systems are in use in the college by replacing the nonfunctioning / old systems.

Configuration of PCs and servers procured since 2011 are given above 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 fitted.

**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.

**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

#### 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

1. 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.
2. Landscape over 5 acres is continuously maintained with automated sprinklers. Recycled waste water is used for watering the lawns and plants.
3. Lawns are maintained around all major buildings
4. Special plantation programs are celebrated on special occasions.
5. 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 task 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 the academic year 2013-14

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 in contact with the Physical Directors who will be offering counseling and mentoring.
- Seminars: Seminars are compulsory for all students during 3<sup>rd</sup> and 4<sup>th</sup> 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. Advice 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 is essential for a requirement for a strong base for student. College organizes a variety of soft skill training programmes such as
  - a) Campus Connect programmes: Infosys organizes 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 3<sup>rd</sup> year onwards. They are like mock interviews, Group discussions, reasoning and logic.
  - c) HR Experts from INFOSYS were invited to interact with newly joined students and advise them about opportunities available in the Industry and challenges to be faced by the students in their career.

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 14	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

d) 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

e) 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 skills 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.

- f) 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.
- g) 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. These activities create an awareness of the social responsibilities in the students.



(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 publishes a Brochure every year : It contains

- Vision & Mission of the College
- 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
- Brief coverage 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.
- Examination Time tables and Results

c) Website : College has a website having URL: [www.cvr.ac.in](http://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 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 a 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 performance in GATE.

Under Graduation students who availed financial assistance from State Govt. for the last six academic years ( i.e., 2009-10 to 2014-15 )								
Sl. No.	Course	Course Year	No. of Students Availed Financial Assistance from State Govt.					
			2014-15 (Yet to Received)	2013-14 (Availed )	2012-13 (Availed )	2011-12 (Availed )	2010-11 (Availed )	2009-10 (Availed )
1	B. Tech. ( E E E )	I Yr.	46	51	46	47	49	50
		II Yr.	50	45	47	49	50	44
		III Yr.	45	46	50	50	39	26
		IV Yr.	45	49	49	39	23	11
2	B. Tech. ( E C E )	I Yr.	99	101	115	74	48	56
		II Yr.	99	114	72	48	56	49
		III Yr.	114	73	50	57	43	41
		IV Yr.	73	48	57	42	36	43
3	B. Tech. ( C S E )	I Yr.	124	98	60	46	45	49
		II Yr.	95	55	44	45	46	39
		III Yr.	54	41	47	44	38	42
		IV Yr.	40	47	44	37	35	38



4	B. Tech. (IT)	I Yr.	41	60	45	44	45	54
		II Yr.	58	44	44	44	52	43
		III Yr.	42	39	43	50	40	26
		IV Yr.	39	40	49	39	7	23
5	B. Tech. (EIE)	I Yr.	21	20	20	21	17	25
		II Yr.	17	19	18	17	25	22
		III Yr.	19	17	18	25	18	9
		IV Yr.	16	17	27	18	23	8
6	B. Tech. (CIVIL)	I Yr.	47	49	27	28	0	0
		II Yr.	48	27	29	0	0	0
		III Yr.	26	27	0	0	0	0
		IV Yr.	26	0	0	0	0	0
7	B. Tech. (MECHA -NICAL)	I Yr.	84	52	20	25	0	0
		II Yr.	51	20	25	0	0	0
		III Yr.	20	25	0	0	0	0
		IV Yr.	25	0	0	0	0	0
TOTALS =			1464	1224	1046	889	735	698

Post Graduation Students who Availed Financial Assistance from State Govt. For the last Six Academic Years ( i.e., 2009-10 To 2014-15 )								
Sl. No	Course	Course Year	No. of Students Availed Financial Assistance from State Govt.					
			2014-15 (Yet to Received)	2013-14 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)	2009-10 (Availed)
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
4	M. Tech. (EPE)	I Yr.	6	3	2	0	8	0
		II Yr.	3	2	4	7	0	0
5	M. Tech. (CSE)	I Yr.	12	13	8	0	10	10
		II Yr.	12	8	12	10	8	4
6	M. Tech. (C.S)	I Yr.	0	6	3	0	8	0
		II Yr.	6	3	8	8	0	0
7	M. Tech. (S.E)	I Yr.	8	0	0	0	0	0
		II Yr.	0	0	0	0	0	0

8	MBA	I Yr.	0	0	0	0	26	33
		II Yr.	0	0	0	25	33	29
9	MCA	I Yr.	0	0	0	0	0	35
		II Yr.	0	0	0	0	32	39
		III Yr.	0	0	0	32	33	37
TOTALS =			84	75	81	89	181	214

**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 is to be created and a committee is 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.

**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 on these students to pay the college fees from their personal resources.
- There is a book bank facility created by Management for SC/ST students
- 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-collegiate 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.
- Transport Facility is already 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 is provided to the students in case of any health 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 or on Saturdays 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

Wed'day		CSE –A M-I CSE-B EDP	CSE-A ECH CSE-B ECH	CSE-C EDP				CSE-D MI
Thursday								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) every 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 4<sup>th</sup> 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**

- Students participating in sports events held at venues outside Hyderabad and missing classes in the college are given supportive coaching in different subjects by the teachers designated for that purpose.

**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<sup>rd</sup> year 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

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.
- JKC: JKC 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 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)

**COMPANY WISE RECRUITMENT DETAILS 2009-10**

SL NO	Company Name	TOTAL
1	Accenture	25
2	Acnox Software	6
3	ADP	5
4	BARC	1
5	Broadridge	3
6	Convergys	8
7	CSC	8
8	Infosys	50
9	Intergraph	1
10	Mphasis	15
11	Robert Bosh	7
12	TCS	22
13	HCL Comnet	19
14	Electronic Arts	4
15	Quad Electronics	2
16	Sea World Marine	4
17	WIPRO	9
Total		189

**PLACEMENTS FOR THE YEAR 2010-11**

S.No.	Company Wise	Branch							Total	
		EEE	ECE	CS E	IT	EI E	MC A	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	
<b>TOTAL</b>		<b>34</b>	<b>101</b>	<b>105</b>	<b>59</b>	<b>29</b>	<b>2</b>	<b>5</b>	<b>335</b>	
SL NO	Company Name	EEE	EC E	EI E	CS E	IT	MC A	MB A	M.T ech	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	EE E	EC E	EI E	CS E	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	EE E	EC E	EI E	CS E	IT	Mec h	M.Tec h	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	5	1	3	344
						8			

S. No	Academic Year	Name of the Company	No. of Students Selected	
			B.Tech	M.Tech
1	2014-2015	Deloitte	15	
2	2014-2015	TCS	166	3
3	2014-2015	VIRTUSA	11	
4	2014-2015	Capgemini	26	
5	2014-2015	HSBC Dev	6	
6	2014-2015	GGK Technologies	13	
7	2014-2015	ADP	3	
8	2014-2015	Mphasis	19	
9	2014-2015	Mu-Sigma	7	
10	2014-2015	Persistent	2	
11	2014-2015	BroadCom	4	
12	2014-2015	Pranathi Software	2	
13	2014-2015	Teradata	1	
14	2014-2015	Acce IQ	1	
15	2014-2015	Net.Orange	3	
16	2014-2015	CA	2	
17	2014-2015	Mindtree	3	
18	2014-2015	IBM Dev	21	1
19	2014-2015	NTT Data	11	
20	2014-2015	NebuLogic	3	
21	2014-2015	GlobalEdge	7	
22	2014-2015	HCL	1	
23	2014-2015	Amazon Dev	5	
24	2014-2015	MAQ Software	1	
25	2014-2015	Cyient	9	
26	2014-2015	Kony Labs	2	

Placement activity for 2014-15 is still going on and many more companies are in the list to visit the College.

**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 Alumnae 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.1 to 5)**

1. Do you feel proud to be associated with CVR as Alumni? Yes
2. How do you rate development activities organized by the College for your overall development? A  B  C  D  - D
3. Are you willing to contribute to the development of the college? Yes
4. Were /Are your grievances properly handled at the college?
  - (a) As a student Yes (b) As an alumni N/A
  - (b)
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

JAJATI KESHARI ROUTRAY

DATE

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 constituted with 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 concerns of women faculty and students. The Cell will interact with women student representatives frequently to identify any of sexual harassment incidents that may occur. Until 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 implemented by the College.

**5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken 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 2013-14 is presented here under. Further, anti-ragging Squads are also constituted at department level, to monitor day to day tendency.

**Anti Ragging Committee:**

1	Dr. K.S. Nayanathara	Principal & Chairperson
2	Dr. K. Dhanvanthri	Professor & Head, EEE Dept.
3	Prof. R. Seetharamiah	Prof. IT Dept.
4	Prof. Wing Cmr. Varghese Thattil	Professor in ECE Dept.
5	Mr. K. Venkateswara Rao	Assoc. Prof. in CSE Dept.
6	Mr. C.V.S. Satyamurthi	Assoc. Prof. in CSE Dept.
7	Mr. M. Raghava	Assoc. Prof. in CSE Dept.
8	Mrs. G. Sree Lakshmi	Assoc. Prof. in EEE Dept.
9	Mrs. T. Esther Rani	Assoc. Prof. in ECE Dept.
10	Mr. D. Shankaraiah	Asst. Prof. in Mathematics
11	Mr. G. Sharath Kumar Reddy	Physical Director
12	Mr. A. Amarender Reddy	Addl. Physical Director
13	Mr. K. Rahul Reddy	12B81A0131 – Student Rep. – Civil
14	Ms. Chitrika	12B81A1012 – Student Rep. – EIE
15	Ms. T. Kavitha	12B81A0456 – Student Rep. – ECE
16	Mr. D. Prashanth	12B81A04A7 – Student Rep. - ECE
17	Ms. P. Alekya	12B81A0208 - Student Rep. EEE
18	Mr. Paduri Avinash Reddy	12B81A1211 – Student Rep. – IT
19	Mr. Amar Hussain	12B81A0304 – Student Rep. – Mech.
20	Mr. B.Naveen Kumar	12B81A0581 – Student Rep. – 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 3<sup>rd</sup> and 4<sup>th</sup> 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.

**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 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. As a part of cultural activities, women participate in Traditional day, Fresher's day and College day which are conducted every year. There are prizes for various sports events in College Day and Freshers Day for Boys and Girls.

**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 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. 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	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	MECH	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
	TOTAL	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 of the Students for the Academic Year 2011-12													
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	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 of the Students for the Academic 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
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

- 24 students are seeking coaching for GATE, BANK PO'S, etc.

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 facilitates 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 Skills, Presentations Skills, Logical aptitude and Verbal reasoning along with syllabus designed by Infosys Campus Connect Program.
3. Placement Cell: We have full time Placement Counselor. 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.

### 5.2.1 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	2013-14	1020	2	0.1	88%
2	2012-13	840	3	0.3	94%
3	2011-12	720	9	1.25	91%
4	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. Low drop out rate may be attributed to the efforts of the College in counseling, providing guidance for good career and a congenial atmosphere for teaching-learning process. 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.

**5.2.2 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.

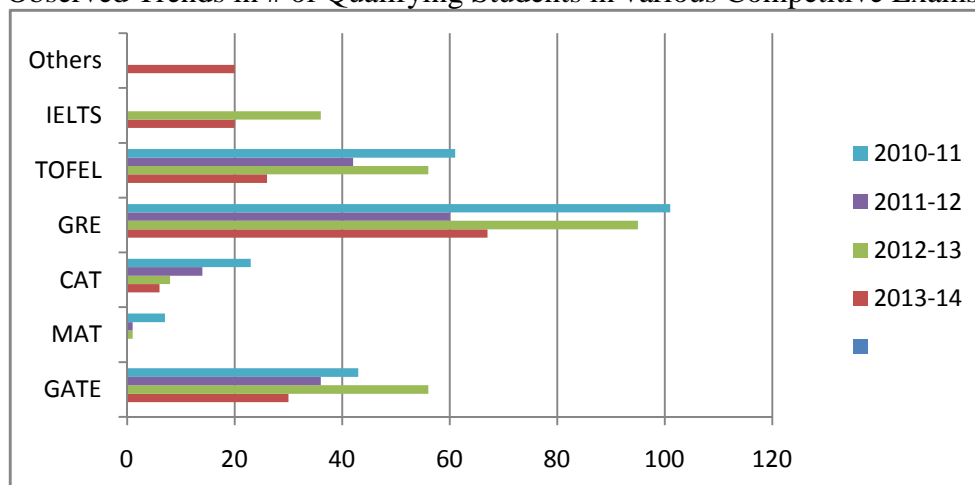
The number of students qualifying for the various competitive exams is significantly increasing. An encouraging trend has been observed.

Year/ Exam	GAT E	MA T	CA T	GR E	TOFE L	IELT S	Oth ers	% of Stude nts Appea red	% of Stude nts Qualif ied	Qualifi ed# of Studen ts	Total Stude nts
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
2009- 10	data Not Present(about 130 students have gone abroad)								37.03	130	351

Details of CSE GATE Toppers:

Year	Name	All India Rank	Higher Degree
GATE - 06	SSV Ravi Sri Ram	30	M.E, IISc- Bangalore Microst. (PhD)-CMU
GATE - 08	B. Varun Reddy	54	M.E, IISc- Bangalore Goldman Sachs
GATE -10	V. Krisna Teja	75	M.Tech, IIT- Mumbai CISCO
GATE -10	P. Rami Reddy	75	M.Tech, IIT- Mumbai EMC
GATE - 11	R Shashank	85	M.Tech, IIT- Mumbai Adobe
GATE - 10	Mr. Arun Kumar	93	M.Tech, IIT- Chennai Oracle
GATE - 10	Mr. Ashok Reddy	213	M.Tech, IIT- Roorkee Samsung
GATE - 11	B. Bala Murali Krishna	195	M.Tech, IIT- Mumbai Microsoft
GATE - 11	K Amarnath	831	M.Tech, IIT- Delhi

Observed Trends in # of Qualifying Students in various Competitive Exams



### 5.2.3 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 have 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	Graduation Day
5	Essay writing
6	Painting

#### DETAILS OF WINNERS IN VARIOUS SPORTS AND GAMES FOR FOUR YEARS

(2010-11, 2011-12, 2012-13 & 2013-14)

#### ACADEMIC YEAR 2010-11

Sl.No	Name of the Event	Name of the Student
1	Cricket	S.Vikram & others
2	Volleyball	G.Naveen Kumar & others
3	Foot ball	B.Bharath & others
4	Basket Ball	Suthej Chandradhra & others
5	Throw ball	Ganga Bhavani & others
6	Table Tennis	G.V.Phani Anand & others
7	Chess	K.Praveen Kumar & others
8	Badminton	N.Vijaya Ram & others (Boys ) M.Suvidha & others (Girls)
9	Carroms	S.Vamshi Krishna & others (Boys ) M.Mounika Mani & others (Girls)

#### ACADEMIC YEAR 2011-12

Sl.No	Name of the Event	Name of the Student
1	Cricket	S.Vikram & others
2	Volleyball	G.Naveen Kumar & others
3	Foot ball	B.Bharath Reddy & others
4	Basket Ball	V.Abijith & others
5	Throw ball	R.Sphurthi & others
6	Table Tennis	Sumana (Girls) M.Pavana Chandra (Boys)
7	Chess	B.Vijaya & Snigdha
8	Badminton	S.Bharath (Boys) Y.K.Sahithi (Girls)
9	Carroms	D.Lokesh Nayak (Boys) M.Spandana (Girls)



Academic Year 2012-13

Sl.No	Name of the Event	Name of the Student
1	Cricket	B.Bharath Reddy
2	Volleyball	Puli Ashok Kumar
3	Foot ball	S.Bharath Raju
4	Basket Ball	Murali Krishna
5	Throw ball	Rekha Choudhary
6	Table Tennis	A Suveer (Boys) S P Preetham (Girls)
7	Chess	B vijay Pharsha
8	Badminton	P Anoop Kumar
9	Carroms	R Ajay Kumar N Mounika

Academic Year 2013-14

Sl.No	Name of the Event	Name of the Student
1	Cricket	D Ashrith & Others
2	Volleyball	K Vamshi Krishna
3	Foot ball	H. Abhishek
4	Basket Ball	V Murali Krishna
5	Throw ball	K Sree Sudha
6	Table Tennis	B Vasanthi & Others (Boys) A Suveer & Others (Girls)
7	Chess	N. Divya Sri , B. Vijay
8	Badminton	K Bhargav, B Anil Kumar
9	Carroms	M Narendra & Others (Boys) M Anusha (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 16<sup>th</sup> 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. 6<sup>th</sup> Annual State Ranking Table Tennis Tournament and Inter Institutional championship 2014: T.R.Abhay Srinivas participated.

### 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)  
Mechanical

Semester: II-I

Branch:

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	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 about teaching?	5	6	6	4	3	3
7.	How good is the teacher's command over the class?	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 have been taken through emails.
- A typical feedback of one of the Alumni is presented here below.

#### ALUMNI FEEDBACK FORM ESSENTIAL DETAILS

Alumni Name	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 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.1 to 5)

5. Do you feel proud to be associated with CVR as Alumni? Yes
6. How do you rate development activities organized by the College for your overall development? A  B  C  D  - D
7. Are you willing to contribute to the development of the college? Yes
8. 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

DATE

JAJATI KESHARI ROUTRAY

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 by-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:



## **CRITERION-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.

#### **6.1.2 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.?**

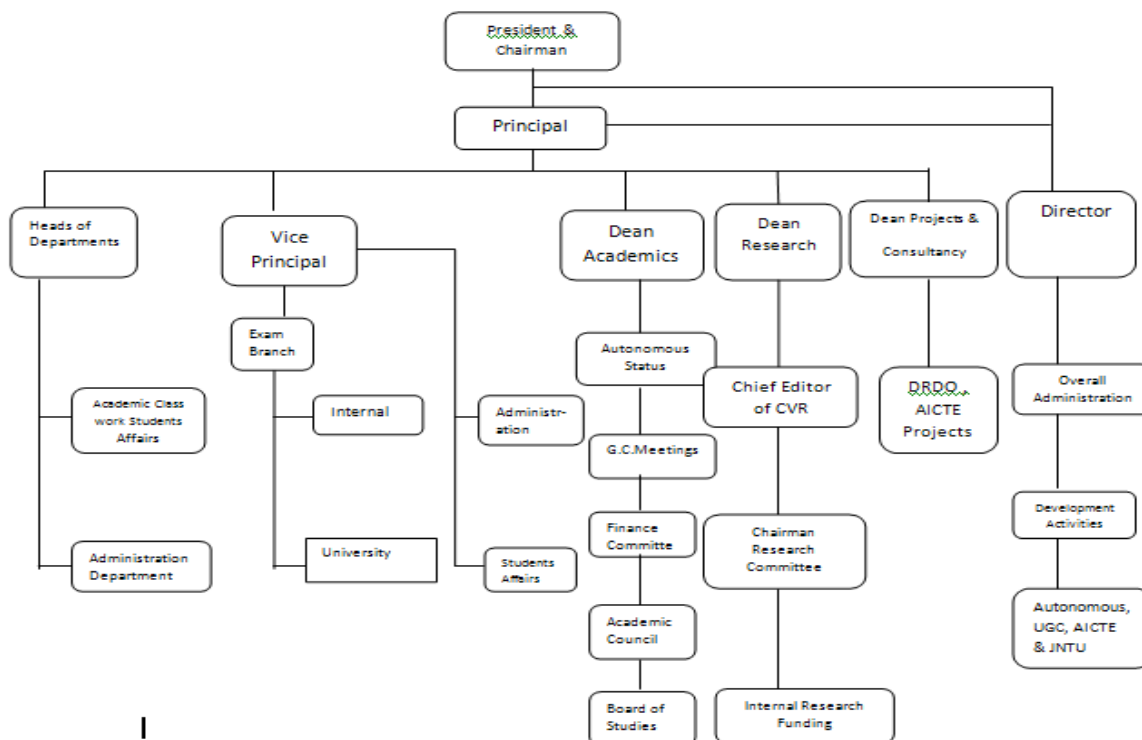
The college developed its mission statement which is not only comprehensive but also realistic. The Mission statement stands as the quintessence of the educational philosophy nurtured by the college in addition to presenting its commitment to being pragmatic as far as its academic goals are concerned 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

- ensuring the organization's management system development, implementation and continuous improvement
- interaction with stakeholders
- reinforcing culture of excellence
- 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.**

- **Teaching & Learning**
- **Research & Development**
- **Community engagement**
- **Human resource management**
- **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**

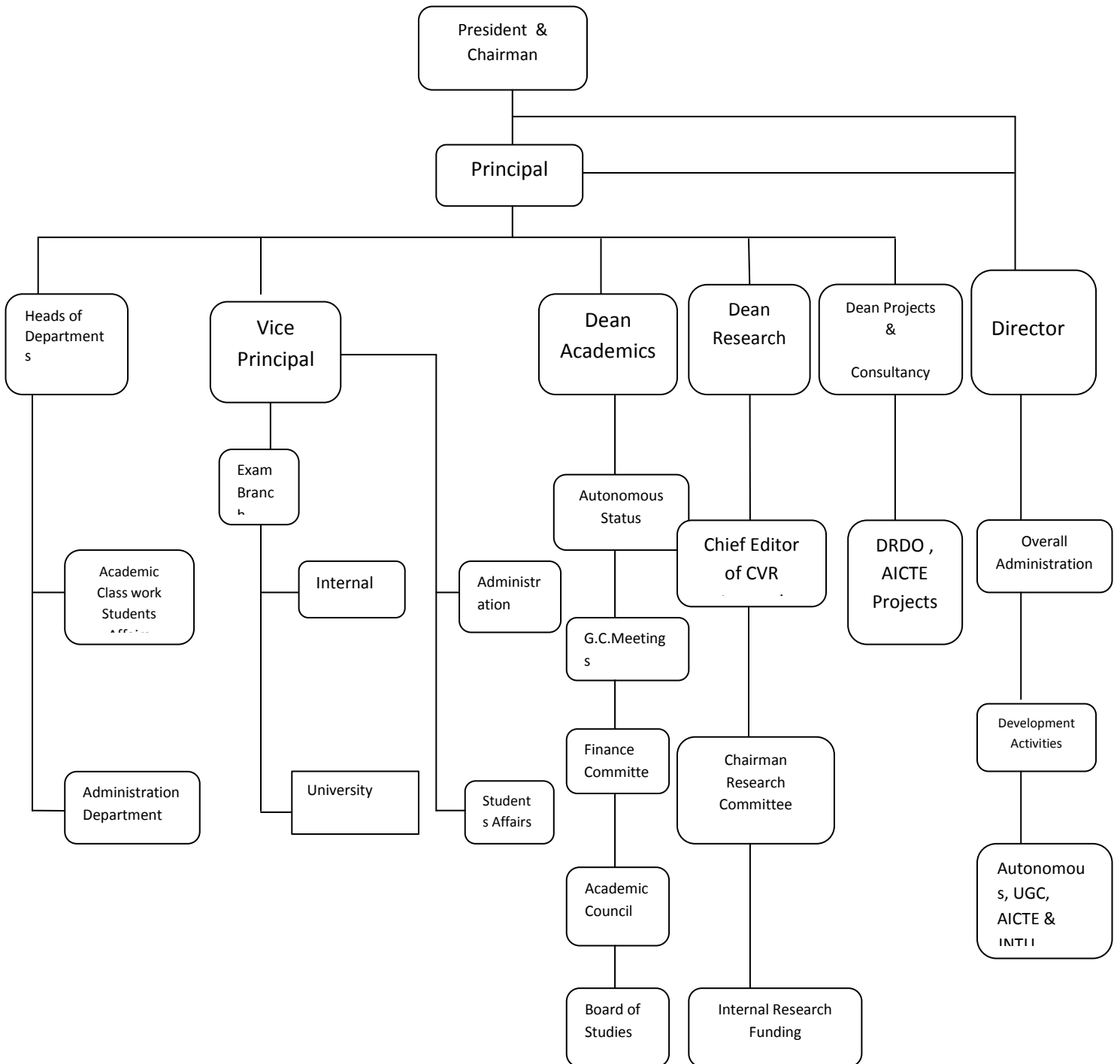
- To introduce industry relevant programmes in association with leading industries through tie-ups
- To encourage students to take up industry sponsored projects
- Involvement of industry experts in academic activities
- Providing consultancy to the industries
- College has Industry Interaction Cell, 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:**

<b>Position</b>	<b>Functions</b>
President and Chairman	<ul style="list-style-type: none"> <li>▪ Frame directive principles and policies.</li> <li>▪ Amend and approve policies from time to time</li> <li>▪ Approve budgets and place before Finance Committee and Governing Body for sanction.</li> </ul>
Principal	<ul style="list-style-type: none"> <li>▪ Mobilize internal &amp; external resources to strengthen the institute</li> <li>▪ Plan &amp; provide necessary facilities/equipment for development.</li> <li>▪ Instill confidence and devotion in every member of the institute</li> <li>▪ Periodic monitoring &amp; evaluation of various processes</li> <li>▪ Ensure effective purchase procedure</li> <li>▪ Define quality policy and objectives</li> <li>▪ Annual budget allocation and spending</li> <li>▪ Arrange periodic meeting of various bodies and committees.</li> <li>▪ Accounts and finance</li> <li>▪ Employee recruitment</li> </ul>
Vice- Principal Administration	<ul style="list-style-type: none"> <li>▪ Employee Recruitment and development</li> <li>▪ Purchase Process</li> <li>▪ Annual Magazine</li> <li>▪ Resource Provision</li> <li>▪ Preparing Budget</li> <li>▪ Office Administration</li> <li>▪ Compliance with AICTE, DTE &amp; University</li> <li>▪ Admission</li> <li>▪ Transport</li> <li>▪ Alumni interaction</li> <li>▪ Public relations</li> <li>▪ Resource Generation</li> <li>▪ Housekeeping including hostels</li> </ul>
Dean Academic	<ul style="list-style-type: none"> <li>▪ Prepare and execute academic calendar</li> <li>▪ Monitor the teaching-learning process</li> <li>▪ Carry out result analysis and suggest corrective measures to Principal</li> <li>▪ Initiate supplementary teaching measures</li> <li>▪ Internal and External examinations</li> <li>▪ Library Upgradation</li> <li>▪ Student Training and Placement</li> <li>▪ Proper conduct of co-curricular activities</li> <li>▪ Formation of student council</li> <li>▪ Proper conduct of cultural activities</li> <li>▪ Proper conduct of sports activities</li> <li>▪ Student discipline</li> <li>▪ Student health care</li> <li>▪ Student orientation</li> </ul>



Dean, Research and Development	<ul style="list-style-type: none"> <li>▪ Up-scaling and enhancing the research activities within the institute</li> <li>▪ Raise awareness of funding opportunities to support faculty research and externally funded sponsored/consultancy projects</li> <li>▪ Encourage industry institute linkages and collaborative research</li> <li>▪ Motivate faculty to write projects</li> <li>▪ Monitor the effective utilization of funds of externally funding projects.</li> <li>▪ Facilitate the Consultancy work in the institution.</li> <li>▪ Maintain and update record of research publications.</li> </ul>
Training and Placement Officer	<ul style="list-style-type: none"> <li>▪ Liaison with industry</li> <li>▪ Identify and provide for training needs of students</li> <li>▪ Arrange campus interviews</li> <li>▪ Proposing annual T &amp; P budget</li> </ul>
Administrative Officer	<ul style="list-style-type: none"> <li>▪ Liaisoning with AICTE, DTE and SU</li> <li>▪ College roster</li> <li>▪ Service Books</li> <li>▪ Faculty personal files</li> <li>▪ Recruitment process</li> <li>▪ Maintain minutes of meeting (all)</li> <li>▪ New proposals</li> <li>▪ Co – ordinate day to day activities of office</li> <li>▪ Purchase process</li> <li>▪ AICTE, DTE, SU committee preparation</li> <li>▪ Annual College budget</li> <li>▪ Shikshan Shulka Samiti requirements</li> </ul>
Heads of Department	<ul style="list-style-type: none"> <li>▪ Plan and execute academic activities of the department</li> <li>▪ Maintain discipline and culture in the department</li> <li>▪ Maintain the department neat and clean</li> <li>▪ Pick and promote strengths of students / faculty / staff</li> <li>▪ Monitor academic activities of the department</li> <li>▪ Propose Department Budget</li> <li>▪ Adhere to QMS Procedures</li> <li>▪ Maintain records of departmental activities and achievements</li> </ul>
Controler of Examinations	<ul style="list-style-type: none"> <li>▪ To organize all the activities of Exam Branch</li> <li>▪ Maintain utmost confidentiality</li> <li>▪ To receive directrions from the Principal and Vice Principal</li> </ul>
Librarian	<ul style="list-style-type: none"> <li>▪ Plan and execute modus operandi of routine activity of the library</li> <li>▪ Plan and propose expansion / development</li> <li>▪ Maintain library discipline and culture</li> <li>▪ Prepare annual budget for library</li> </ul>
Alumni Incharge	<ul style="list-style-type: none"> <li>▪ Formation of Student Council (SC)</li> <li>▪ Arrange periodic meetings of SC</li> <li>▪ Ensure alumni registration</li> <li>▪ Prepare alumni news letter</li> <li>▪ Arrange “Runanubandha” meet</li> <li>▪ Proposing annual budget</li> </ul>
Workshop Incharge	<ul style="list-style-type: none"> <li>▪ Smooth running of college workshop</li> <li>▪ Preparing Material Requirement</li> <li>▪ Oversee the routine work</li> </ul>

	<ul style="list-style-type: none"> <li>▪ Oversee the college bus service</li> <li>▪ Oversee the generator facility</li> </ul>
Counseling Cell Incharge	<ul style="list-style-type: none"> <li>▪ Facilitate career guidance to students</li> <li>▪ Assist students suffering from psychological disorders</li> <li>▪ Arrange for professional counselors</li> <li>▪ Maintain record of counseling activities</li> <li>▪ Student academic counseling</li> <li>▪ Provide slow-pace programme for weaker students</li> <li>▪ Arrange remedial classes for weaker students</li> </ul>
Student Professional Activities Incharge	<ul style="list-style-type: none"> <li>▪ Organize events through students professional societies / chapters</li> <li>▪ Organize paper and design contests</li> <li>▪ Encourage student participation</li> <li>▪ Publication of technical magazine and news letters</li> <li>▪ Record of student participation and achievements in Co-curricular and extra – curricular activities</li> <li>▪ Maintain record of such events</li> </ul>
Physical Instructor	<ul style="list-style-type: none"> <li>▪ Ensure smooth conduct of sports</li> <li>▪ Ensure proper use of gym</li> <li>▪ Purchasing of sport items</li> <li>▪ Encourage students to participate in zonal tournaments</li> <li>▪ Creation and upkeep of sports facilities</li> <li>▪ Proposing annual budget</li> </ul>

**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.

<b>Grants received from other Government Organizations:</b>						
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 <sup>st</sup> Aug. 2003 to 31 <sup>st</sup> 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 <sup>th</sup> – 27 <sup>th</sup> 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 <sup>th</sup> June-1 <sup>st</sup> July 2006
4	BRNS (Conference grant)	CVR College of Engineering, Mangalpalli, Ibrahimpatan	Two-day National Conference on Ferroics	2006/17/34/16-BRNS/505 dt.13-06-2006	1,00,000	30 <sup>th</sup> June-1 <sup>st</sup> 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/12/0249/41 745 Dated 14/12/2012	Rs.8.8 Lakhs	Completed.
DRDO ,Hyderabad OFDM	DRDL/24/08P/12/0250/41 744 Dated 30/11/2012	Rs.9.0 Lakhs	Completed recently.
DRDO,Hyderabad DAS Software	DRDL/24/08P/12/0248/41 746 Dated 21/11/2012	Rs.8.7 Lakhs	Work in Progress

**Internally acquired funds:**

Name of the internal Source	CFY 2013-14	CFYm1 2012-13	CFYm2 2011-12	CFYm3 2010-11
Students' Admissions fee	40,80,000	31,87,140	40,53,995	9,85,980
Books & Course Material Fee	25,01,000	18,94,112	10,56,356	9,18,582
Transport Fee	3,01,27,000	2,16,67,530	1,71,93,919	1,53,92,075
Examination Fee/ Remuneration	64,32,740	51,21,256	42,61,941	57,17,745
Interest A/c.	19,52,829	33,47,620	21,08,432	16,27,497
Misc. Fee receipts	1,77,29,139	1,71,75,678	7,75,619	7,05,499
Tuition Fee	19,82,75,800	13,75,46,559	11,56,44,224	10,90,39,081
<b>Total</b>	<b>26,10,98,508</b>	<b>18,99,39,895</b>	<b>14,50,944,86</b>	<b>13,43,86,459</b>

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.

#### **6.2.5 How does the college ensure that grievances / Complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse 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 is 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.

### **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?**

- 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 lectures 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.

**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 Criterin –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 play 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 centres, 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 31-03-2011**

Advertisement Charges	653,945.00	Admission Fee	3,657,166.00
Approvals & Affiliations	1,020,953.00	Admin. Registration Fees	985,980.00
Bank Charges	33,452.00	Books to Students	110,600.00
Books to Students		Course Material Fee	807,982.00
Bus Expenses	11,839,901.00	Consultancy Fee	50,000.00
CIENCIA-2010	464,876.00	CRT Training Programme AMCAT	22,529.00
CIENCIA-2011	285,683.00	Ciencia-2010	443,730.00
Conveyance	207,894.00	Ciencia-2011	266,020.00
Consumables	60,567.00	Exam Fee	5,717,745.00
Corpus Fund	500,000.00	Hostel Fee	4,048,200.00
Development Fund	11,619,562.00	Interest on FDs	1,527,497.00
Exam Fee Paid	3,608,377.00	IEEE Fee A/c	35,100.00
Electricity Bills	2,233,737.00	JNTU Student Registration Fee	206,128.00
Examination Remuneration	560,275.00	Misc Receipts	705,499.00
Equipment Replacement Fund	500,000.00	Nishpedka Registration Fee	10,400.00
Employee Gratuity	12,292,140.00	Transport Fee	15,392,075.00
Faculty Recruitment and Training	225,932.00	Tuition Fee	109,039,081.00
Faculty Training & Research	14,748.00		
Faculty Development Fund	500,000.00		
Freight Charges	61,126.00		
Fuel & Power	2,416,668.00		
General Expenses	564,039.00		
Guest Faculty Remuneration	108,033.00		
Hostel Mess Charges A/c	1,977,240.00		
Internet Charges	353,701.00		
Interest	106,875.60		
IETE Membership Fee	33,602.00		
IUCUE Course Fees	194,037.00		
ISTE A/c	29,500.00		
JKC A/c	183,278.00		
Journals & Periodicals	592,471.00		
Land Scaping & Gardening	251,882.00		
Medical Expenses	30,140.00		
Maintenance Fund	500,000.00		
Office Maint	43,330.00		
Postage & Telegram	98,986.00		
Printing & Stationery	2,155,478.00		
Rates, Taxes and Insurance	185,064.00		
Rent	96,000.00		
R&M Buildings	43,929.00		
Repairs & Maint. - DG Set	327,781.00		
Repairs & Maint. - Equipments	687,520.00		
Repairs & Maint. - General	122,626.00		
Repairs & Maint. - Vehicles	518,368.00		
Salaries	65,105,408.00		
Share License Fee	607,693.00		
Site Expenses	93,653.00		
Staff Welfare	485,907.00		
Students Welfare	914,076.00		
Telephone Bills	240,285.00		
Printing Expenses	8,292.00		
Transportation	13,673,333.00		
Surplus of Income over Expenditure	3,494,726.00		
<b>GRAND TOTAL:</b>	<b>143,125,722</b>		<b>143,125,722</b>

*Dr. A.D. Rajkumar*  
**Dr. A.D. Rajkumar**  
 Principal  
 CVR College of Engineering  
 Vastunagar, Mangalpalli (V),  
 Ibrahimpatan (M), R.R. Dist.  
 PIN-501 510 (A.P.)

*Drawn as per books*  
*Rajender Reddy*  
**K. RAJENDER REDDY**  
 Motor Vehicles Inspector  
 RTA Ranga Baddu (H.O.)

C. I. can. 1



**CVR COLLEGE OF ENGINEERING** (2)

**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 & Gardaning	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		



*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
<b>GRAND TOTAL:</b>	155,882,644		<b>155,882,644</b>

  
*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 (V)	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 (C)	137,546,559.00
Conveyance	325,105.00	IEEE A/c	62,000.00
Consumables	477,712.00	CRT Trainig Programe AMCAT	1975182.00
Corpus Fund Expenses	1,120,728.00	CCC a/c	608,401.00
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*  
 Hon. Secretary  
 CBEBABUDDI EDUCATION SOCIETY

*[Signature]*  
 For B.A. ACCOUL  
 Chartered Accountant  
 Proprietor - 2  
 (S.No. 010455)

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	862,825.00		
Depreciation	23,258,862.00		
		Excess of Expenditure over Income	5,068,994.00
<b>GRAND TOTAL:</b>	<b>191,395,737.00</b>		<b>191,395,737.00</b>

(5)

C. Kamala  
 Hon. Secretary  
 CHERABUDDI EDUCATION SOCIETY

*[Signature]*  
 For B.K. MEGDE & Co.,  
 Chartered Accountants.

Proprietor:  
 M.No. 010455



**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
<b>GRAND TOTAL:</b>	<b>231,140,134.00</b>		<b>231,140,134.00</b>

  
 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

## **CRITERION–VII: INNOVATIONS AND BEST 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 beautification 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 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.

#### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

With the increasing energy demands College took an initiative to generate and utilize eco-friendly energy in the campus. Solar Power Plant installed in the college on roof top of PG block is operating now to produce 120 kW capacities with local utilization without battery backup. A part of our campus load has been supplied by solar power .The technical details of the installed power plant are as follows.

**Solar Power Plant (120kW) on roof to of PG Block:** Plant capacity: 120 kWp. 2×60 kWp units with 6 string inverters are installed to generate the required power.No .of panels are 480 each @ 250 kWp. The power generated by the plant is uploaded to the grid on non-working days of the College which will reduce the burden of state electricity supply Dept. up to certain extent. It helps the students to acquire the practical knowledge of taping the power from non-conventional source of energy which will implant the need for Renewable Energy Sources in minds of younger generation.

The cost of the project is Rs. 1.2 crores, received Rs. 40 Lakhs subsidy from the Jawaharlal Nehru National Solar Mission from the Ministry of New and Renewable Energies and State Government The plant would generate approximately 1.5 Lakh units every year to that extent the electricity board gets relief.

**Tracking Solar PV Plant (40kW) on roof top of Main Block:** As a part of social responsibility and to set up icon for coming generations, besides a 120 kWp 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 kWp 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. 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.

**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 5000Lts 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 CO<sub>2</sub> emissions. This shows our dedication towards the dependency on green power harvesting which will send a positive sign to the students.

#### **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 nearby 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 14<sup>th</sup> 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. Recently college started fixing LCDs almost in all class rooms.
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:

- 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.
- 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.
- Encouragement for publication of papers in the CVR Journal: Selected papers will be rewarded with Rs.10,000.
- 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.
- There are about 35 teachers doing Ph.D registering with Osmania University, JNTUH, and UOH too.
- Six 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.

9. Providing adequate tutorial and remedial coaching for slow learners.
10. Administrative system is transparent and non-interfering.
11. Close monitoring and frequent Heads meetings.

**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.
- 120 kW 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.

### 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 referred 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:

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 are 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. Partial relief from teaching when teachers get funding from R&D agencies.
6. 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: 30+5 submitted thesis

No.of international publications by the faculty: More than 40

No.of national publications by the faculty: More than 25

No.of funding projects: 08

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.

Dr. T.Esther Rani, Professor of ECE has submitted for patent and got approved and listed. She got selected as UGC Professor for 2 years, paying total salary by UGC and a contingency grant of Rs. 3 lakhs.

Management has encouraged by starting centre for RFID spending about Rs. 18 lakhs during 2009-2011.

DRDO sanctioned Research Project releasing about Rs. 17.8 lakhs during 2006-2009.

DRDO, Hyderabad has sanctioned 3 projects for a total of Rs. 26 lakhs and they have been successfully completed recently.

#### 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 doing Ph.D. 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. K.S. Nayanathara  
Name of the Institution: CVR College of Engineering  
City: Hyderabad  
Pin Code: 501510  
Accredited Status: Reaccredited by NBA  
Work Phone : 8414252369  
Website: E-mail : [www.cvr.ac.in](http://www.cvr.ac.in)  
Mobile: 9502335871

**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**

Many 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 may 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 value added courses 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 borned 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.

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: 8414252369

Website: E-mail: [www.cvr.ac.in](http://www.cvr.ac.in)

Mobile: 9502335871

**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/groups (Electronics Club, IEEE, IETE, ISTE students chapter) Sports competitions and many cultural programmes such as CIENCIA, IEEE day, etc., are conducted. 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 nearby village Kongar kalan and conducted Swachh Bharat Activity.
4. Students of Electrocrise conducted guest lectures on Moral values, communication skills, computer education, awareness on swine flu, etc for the school students in nearby 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.

**Infrastructure:** The Placement Officer of the College, Mrs. Vijaya Mair is very experienced in Training & Placement activities. Got appreciation and awards from many HRS. College has provided one entire floor of student support block. It has 20 individual interviewing cubicles, four group discussion chambers, big dining cum conference hall. It has necessary office cubicles. This has become additional advantage for companies to prefer off campus and pool campus at CVR. There is an Auditorium of 1000 capacity for PPT sessions.

## 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 Ph.D. 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. Institution is now preparing for the revision of the curriculum which will be effective from the academic year 2015-16 onwards.

For the current academic year 2014-15, the interdisciplinary courses and departments involved are listed as below.

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		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	Mech. 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	CSE	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	12EG181CV	English Language and Communication skills Laboratory II	I - II	Humanities & Sciences	2
16	12ME182CV	Workshop Practice	I - II	Mech. Engineering	2
17	12CS181CV	Data Structures through 'C' Laboratory	I - II	Computer Science and Engineering	2
18	12MT201CV	Probability & Statistics	II-I	Humanities & Sciences	3
19	12EE201CV	Basic Electrical & Electronics Engineering	II-I	EEE	4
20	12EG231CV	Verbal Ability Lab	II-I	Humanities & Sciences	1
21	12ES251CV	Environmental Studies	II-II	Humanities & Sciences	3
22	12EG281CV	Reasoning & Logic Lab	II-II	Humanities & Sciences	1
23	12MG301CV	Managerial Economics and Financial Analysis	III-I	Humanities & Sciences	3
24	12MT331CV	Data Interpretation Lab	III-I	Humanities & Sciences	1
25	12EG381CV	Advanced English Communication and soft skills Laboratory	III-II	Humanities & Sciences	2
26	12MT381CV	Quantitative Ability Lab	III-II	Humanities & Sciences	1
27	12MG40CCV	(Interdisciplinary elective)-Intellectual Property Rights	IV-I	Humanities & Sciences	3
28	12CS40FCV	(Interdisciplinary elective)-Data Base Management Systems	IV-I	Computer Science and Engineering	3
29	12MG40ACV	(Interdisciplinary elective)-Entrepreneurship	IV-I	Mech. Engineering	3
30	12CS40ECV	(Interdisciplinary elective)-Object Oriented Programming using C++	IV-I	Computer Science and Engineering	3
31	12CS131CV	Management Science	IV-II	H & S	3

**4. Annual/Semester/choice based credit system:**

B.Tech.- program follows semester system from I year to IV year 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 follows semester based 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	12CE/ME401CV	Elements of Civil & Mech. Engineering	IV & I	CSE,IT & EIE	3
2	2011-2012	Engineering Drawing I / Engg. Drawing II	I – I I - II	CSE,ECE,EEE,EIE &IT	4
3	2011-2012	Engg. Workshop	I-I I-II	CSE,ECE,EEE,EIE &IT	4

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Assistant Professors)****B.Tech. Programme:**

Faculty Designation	Required as per Norms	Filled
Professors	1	2
Associate Professors	4	2
Assistant Professors	11	13
Total	16	17

**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. There are two core faculty members for the program.

Faculty Designation	Required as per norms	Filled
Professors	1	1
Assistant Professors	1	1
Total	2	2

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.)**

Name of Faculty	Qualification	Designation	Specialization	No. of years of Experience Teaching / Industry	No. of Ph.D. Students guided
Dr.T.Muralidhara Rao	B.Tech., M.E., Ph.D.	Professor & Head	Structural Engineering	21	-
Dr. B. Srinivas Reddy	B.E., M.E., Ph.D.	Professor	Structural Engineering	33	-
Dr.N.Narayana	M.Sc., Ph.D.	Professor	Engg. Geology	30	-
Mrs.B.Uma Radha	B.E.,M. Tech.	Associate Professor	Structural Engineering	13	-
Mr.S.Hari Kiran	B.E., M.S.(USA)	Associate Professor	Env. Engineering	9	-
Mr.N. Ramanjaneyulu	B.E., M. Tech.	Assistant Professor	Structural Engineering	07	-
Mr.K.Rajendra Prasad	B.E., M. Tech.	Assistant Professor	Structural Engineering	02	-
Mr.S.Praveen	B.E.,M. Tech.	Assistant Professor	Transportation Engineering	1.5	-
Mr.B.H.M.Chandra Kanth	B.E.,M. Tech.	Assistant Professor	Transportation Engineering	06	-
Mr.A.Vamshihaitanya	B.E.,M.S (USA)	Assistant Professor	Transportation Engineering	03	-
Mr.D.Yugandhar	B.Tech., M. Tech	Assistant Professor	Geotechnical Engineering	02	-
Ms. J.Sandhya Rani	B.Tech.,M.E.	Assistant Professor	Structural Engineering	01	-
Mrs.Neeraja Pannala	B.Tech., M.E.	Assistant Professor	Structural Engineering	8	-
Mrs.D.Durga Nagalaxmi Devi	B.Tech., M.Tech.	Assistant Professor	Geo-technical Engineering	6	-
Ms.Shruthi Laya	B.Tech.,M.Tech	Assistant Professor	Highway Engineering	02	-
Ms.Raja Rajeshwari	B.E., M.Tech.	Assistant Professor	Structural Engineering	01	-
Mr.B.Mallikarjun	B.Tech., M.Tech.	Assistant Professor	Structural Engineering	01	-
Mr.Yashwanth Pamu	B.E., M.E.	Assistant Professor	Construction Engineering & Management	4	-
Mr.K.Ravi Chandra Reddy	B.E.,M.S.(USA)	Assistant Professor	Civil & Environmental Engineering	3	-

**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) : 14.1:1

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 are in final year second semester. All the required state-of-art laboratories are established. In addition, equipment beyond the academic curriculum requirements also have been established to carry out research in Structural Engineering, Environmental Engineering, Transportation Engineering, Geotechnical Engineering. Department is in the process of preparing project proposals to submit to various funding agencies such as AICTE, DST, APCOS, FIST, DBT, ICSSR.

**12. Departmental projects funded by DST, FIST, DBT, ICSSR, etc.**

With the first batch coming to final year in the present academic year 2014-15, all the laboratories are established. Department is eligible to apply for projects from funding agencies from now onwards.

**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.

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	No. of publications in the journals / conference
1	Dr.T.Muralidhara Rao	17
2	Dr.N.Narayana	16
3	Mr.S.Hari Kiran	4
4	Mr.N. Ramanjaneyulu	1
5	Mr.K.Rajendra Prasad	1
6	Mr.S.Praveen	2
7	Mr.D.Yugandhar	1
8	Mrs.Neeraja Pannala	1

\* **Monographs**

Civil Engineering department prepares printed Course files and lab manuals for every semester and distributes to all students. Course file contains Programme Educational Objectives, Programme Outcomes, Detailed lesson plan, Learning objectives 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
<b>II B.Tech. I Semester</b>		
1	Surveying Lab-I	N.Ramanjaneyulu & B.H.M.Chandra kanth
2	Strength of Materials	P.Neeraja & Sandya Rani
<b>II B.Tech. II Semester</b>		
1	Surveying Lab-II	N.Ramanjaneyulu / P.Shruthilaya
2	Engineering Geology Lab	Dr.N.Narayana/S.Praveen
3	Computer Aided Design of Buildings Lab	K.Rajendra Prasad / B.Mallikarjun
<b>III B.Tech. I Semester</b>		
1	Fluid Mechanics & Hydraulic Machines Lab	N.Siva Naga Venkat / P.Yashwanth
2	Geotechnical Engineering Lab	D.Yugandhar
<b>III B.Tech. II Semester</b>		
1	Computer Aided Structural Drafting Lab	K.Rajendra Prasad
<b>IV B.Tech. I Semester</b>		
1	Environmental Engineering Lab	A.Vamshi Chaitanya / Mr.S.Hari Kiran
2	Concrete & Highway Materials Engg. Lab	S.Praveen / N.Ramanjaneyulu

**List of Year wise Course Files:**

S.No.	Name of the Course File	Name of Faculty
<b>II B.Tech. I Semester</b>		
1	Surveying - I	N.Ramanjaneyulu & B.H.M.Chandra kanth
2	Strength of Materials	Mrs.B.Uma Radha/N.Ramanjaneyulu
3	Building Materials, Construction and Planning	Ms.Raja Rajeshwari & Ms.Shruthi laya
4	Fluid Mechanics	S.N.Venkat/P.Yeshwanth
<b>II B.Tech. II Semester</b>		
1	Surveying - II	P.Shruthilaya/ B.H.M.Chandra kanth
2	Engineering Geology	Dr.N.Narayana/P.Neeraja
3	Structural Analysis-I	B.Mallikarjun/ Dr.T.Muralidhara Rao
4	Hydraulics and Hydraulics Machinery	S.N.Venkat/P.Yeshwanth



<b>III B.Tech. I Semester</b>		
1	Design and Drawing of Reinforced Concrete structures	Mrs.B.Uma Radha / K.Rajendra Prasad
2	Geotechnical Engineering-I	D.Yugandhar / D.D.N.L.Devi
3	Water Resources Engineering -I	B.H.M.Chandrakanth/Mr.K.Ravi Chandra Reddy
4	Environmental Engineering	Mr.Vamshi Chaitanya / Mr.S.Hari Kiran/
5	Structural Analysis -II	K.Rajendra Prasad/B.Mallikarjun
<b>III B.Tech. II Semester</b>		
1	Design and Drawing of Steel structures	Mr.N.Ramanjaneyulu/Mrs.B.Uma Radha
2	Geotechnical Engineering-I	D.Yugandhar / D.D.N.L.Devi
3	Water Resources Engineering -II	B.H.M.Chandrakanth/ Mr.S.Hari Kiran/
4	Transportation Engineering	Mr.S.Praveen/ B.H.M.Chandrakanth
5	Concrete Technology	J.Sandya Rani/Raja Rajeshwari
6	Advanced Structural Analysis	K.Rajendra Prasad/ B.Mallikarjun
7	Waste Management	Mr.K.Ravi Chandra Reddy
<b>IV B.Tech. I Semester</b>		
1	Estimation and Costing	N.Ramanjaneyulu
2	Pavement Analysis and Design	A.Vamshi Chaitanya
3	Retrofitting and rehabilitation of structures	J.Sandya Rani / Mrs.B.Uma Radha
4	Remote Sensing and GIS	N.Siva Naga Venkat / P.Neeraja
5	Pre stressed concrete	Dr.B.Srinivas Reddy / K.Rajendra Prasad
<b>IV B.Tech. II Semester</b>		
1	Construction Technology and Planning Management	D.D.N.L.Devi
2	Airport Planning and Design	A.Vamshi Chaitanya
3	Advanced Structural Design	Dr.B.Srinivas Reddy / K.Rajendra Prasad

**Books Published:** Dr.N.Narayana was co-author for few of the code books which are published by National Council for Cement and Building Materilas a government agency and are revised only at times when it is required.

<b>S.No.</b>	<b>Title of the Book</b>	<b>Name of the Author/Year of publication/ Name of Publisher ISBN Number</b>
1	Status of Limestone Availability and Potential Sites for Setting up Large Cement Plants (SP-14-91, Second Edition)	Dr. N. Narayana (Co-Author) / 1991/ National Council for Cement and Building Materials, New Delhi.
2	Norms for Proving Limestone Deposits for Cement Manufacture (SP-9-03 November 2003 , Third Edition Copyright 2003)	Dr. N. Narayana (Co-Author) National Council for Cement and Building Materials, New Delhi.
3	Progress in Cement and Concrete – Testing and Quality Control in Cement Industry	Dr. N. Narayana (Co-Author) Akademia Books International, New Delhi (ISBN No. 81-85522-14-6, 1997)

**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	Journal of Structural Engineering	0.14	0.1	6	0970-0137
2	A Critical Comparative Study of IS: 800-2007 and IS: 800-198	International Journal of Civil Engineering & Technology		7.929		0976-6308
3	Size Effect of Plain Concrete Beams-An Experimental Study	International Journal of Research in Engineering and Technology		1.962		2321-7308
4	Performance Evaluation And Efficiency Assessment Of A Waste Water Treatment Plant–A Case Study	International Journal of Engineering Research & Technology		1.76		2278-0181
5	High Volume Fly Ash-A Boon for Preventing Reinforcement Corrosion	International Journal of Civil Engineering and Applications		-		2249-426X
6	Settlement due to uniform circular load on finite two layer system	Geotechnical & Geological Engineering, Springer Journal	0.64	0.91	25	15731529 09603182

**15. Details of patents and income generated : NIL****16. Areas of consultancy and income generated :**

Civil Engineering department has been established in the year 2011 and the first batch of students is in fourth year first semester. 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.

**17. 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.
- The department has organized a 2-day National level workshop on Finite Element Formulations in Civil Engineering applications on 30<sup>th</sup> & 31<sup>st</sup> January 2015. The following is the list of various recharging activities taken up by the department.
- 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 present papers in national/ international journals and conferences.

The following is the list of recharging strategies adopted by the department since its inception:

**Guest Lectures attended by the faculty members:** In addition to attending Guest Lectures organized by the department, faculty has attended the following guest lectures at other reputed institutes.

S.No	Topic	Date	Delivered by	Venue	Attended by
1	Structure-Foundation Interaction Analysis in Reservation & Reconstruction of Historical Monuments	13-12-2012	Dr.Michael Lisyuk	IIT,Hyderabad	Mrs.B.Uma Radha
2	Seismic Energy Dissipation Systems	9-5-2013	Prof.Anil Agarwal, Professor, City College of New York	IIT, Hyderabad	Mrs.B.Uma Radha & Mr.K.Rajendra Prasad

**National and International Workshops attended by the faculty members:**

S.No	Name of the workshop	Dates	Organized	Venue	Attended by
1	Structural Engineering Convention 2014	22 <sup>nd</sup> to 24 <sup>th</sup> Dec 2014	IASE, IIT, Delhi	IIT Delhi	Mrs.B.Uma Radha
2	International workshop on Earthquake engineering and Structural Dynamics	20 <sup>th</sup> & 21 <sup>st</sup> Dec 2014	IASE, IIT, Delhi	IIT Delhi	Mrs.B.Uma Radha

3	Open House	3 <sup>rd</sup> to 11 <sup>th</sup> Nov 2014	NICEE	IIT, Kanpur	Mrs.B.Uma Radha
4	Developments in Earth Sciences and Earthquake Engineering	25 <sup>th</sup> April 2014	CBIT	CBIT, campus	Ms.J.Sandhya Rani
5	Recent Advances in Civil Engineering	3 <sup>rd</sup> & 4 <sup>th</sup> January 2014	ACE Engineering College	ACE Engineering College	Mr. N. Ramanjaneyulu
6	Research Methodology		R&D Cell, JNTUH	JNTUH	Mrs.B.Uma Radha
7	Advanced surveying and mapping using total station - hands on practice	18 <sup>th</sup> & 19 <sup>th</sup> January 2013	VNR VJIET	VNR VJIET Campus	Mr. N. Ramanjaneyulu
8	Geopractices-2013	4 <sup>th</sup> Oct, 2013	IGS, JNTUH	JNTUH	Mr.D.Yugandhar
9	Meeting Infrastructure challenges	23 <sup>rd</sup> to 26 <sup>th</sup> Oct, 2013	ICI-IWC-2013	Hitex, Madhapur	Mr. N. Ramanjaneyulu
10	Learning Outcomes	16 <sup>th</sup> March 2013	CVR College of Engineering	CVR Campus	Mr. K. Rajendra Prasad
11	1D-Workshop on Manufactured sand- its utilization	6 <sup>th</sup> Sep, 2012	Dept. of Mines of Geology Govt. of AP	Vishakhapatnam	Dr. N. Narayana
12	Earthquake Engineering literature survey workshop	7 <sup>th</sup> to 16 <sup>th</sup> July 2011	NICEE	IIT, Kanpur	Mr.B.Mallikarjun
13	1D-Workshop on New products – ACC Blocks	25 <sup>th</sup> Feb, 2011	Ultratech Cements Ltd.	Hyderabad	Dr. N. Narayana
14	1D-Workshop on Concrete day Programme	7 <sup>th</sup> Oct, 2011	ICI	Hyderabad	Dr. N. Narayana
15	12 <sup>th</sup> NCB International Seminar	15 <sup>th</sup> to 18 <sup>th</sup> Nov, 2011	NCB, Delhi	NCB, Delhi	Dr. N. Narayana

16	1D-Workshop on Transition to ISO:9001-2008	10 <sup>th</sup> Oct, 2009	Engineering Staff College of India	ESCI Hyderabad	Dr. N. Narayana
17	1D-Workshop on Green Building concepts	11 <sup>th</sup> Sep, 2009	CII	Hyderabad	Dr. N. Narayana
18	1D- Seminar on road map to quality of ready mixed concrete	9 <sup>th</sup> Oct, 2009	Ultratech Cements Ltd.	Hyderabad	Dr. N. Narayana

**Short term courses attended by the faculty members:**

S.No	Name of the short term course	Dates	Organized	Venue	Attended by
1	Finite Element Methods and Applications in Civil Engineering	5 <sup>th</sup> to 9 <sup>th</sup> May 2014	IIT ,Bombay (CE&QIP)	IIT, Bombay	Mr.N.Ramanjaneyulu& Mr.K.Rajendra Prasad
2	Entrepreneurship Development	11 <sup>th</sup> Sept 2013	National Small Industries Corporation Ltd	Nalla Malla Reddy Engineering College	Mr.K.Ravichandra Reddy
3	Formwork for Concrete Structures	17 <sup>th</sup> to 21 <sup>st</sup> June 2013	IIT Delhi	IIT Delhi	Mr. N. Ramanjaneyulu & Mr. K. Rajendra Prasad
4	Faculty Development program in Entrepreneurship	20 <sup>th</sup> June to 3 <sup>rd</sup> July 2012	Center for Entrepreneurship Development	ACE Engineering College	Ms.P.Shruthilaya
5	Introduction to Forensic Engineering and Failure analysis	9 <sup>th</sup> to 13 <sup>th</sup> Jan 2012	NIT, Tirchirappalli	NIT, Tirchirappalli	Mr.K.Rajendra Prasad
6	Symposium on selected topics in Geo-technical Engineering	4 <sup>th</sup> Nov 2010	IGS, Hyderabad & JNTU Hyderabad	JNTU, Hyderabad	D.D.N.L.Devi
7	National Level Technical Symposium in Civil Engg.	18 <sup>th</sup> & 19 <sup>th</sup> March 2005	Satyabhama Institute of Science and Technolgy	SIST, Chennai	Mr.K.Ravichndra Reddy

**National / International Conferences attended by the faculty members:**

S.No	Name of the conference	Dates	Organized	Venue	Attended by
1	International conference on Transportation Planning and Implementation Methodologies for developing countries	10 <sup>th</sup> to 12 <sup>th</sup> Dec 2014	Transportation System Engineering	IIT, Bombay	Ms.P.Shruthilaya
2	One day Seminar on “Green Cities” on the occasion of World Earth Day – 2014	22 <sup>nd</sup> April 2014	The Institute of Engineers India. (IEI)	IEI Main Building, Hyderabad	Mr.S.Hari Kiran
3	One day seminar on Leadership in Energy and Environmental Design	Sep 2013	IEI, Bhuwaneshwar	Bhuwaneshwar, Orissa	Mr.S.Hari Kiran
4	Recent Trends in Structural Engineering	6 <sup>th</sup> & 7 <sup>th</sup> Jan-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

Dr.Narayana in the capacity of Joint Director, National Council for Cement and Building Materials organized and attended over several seminars and workshops totaling up to 17 in addition to listed above.

In addition to the above the following is the year wise list of faculty members attended Faculty development program organized by the institution.

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

**18. Student projects :**

- Percentage of students who have done in-house projects including inter-departmental
- Major Projects: Civil Engineering Department was established in 2011 and the first batch is in fourth year second semester. 100% students are doing in house final year Major Project work with 15 credits during 4<sup>th</sup> year – II semester
- Students doing projects in collaboration with Industries/Institutes: will be taken up next year
- **Mini Projects:** 100 % first batch students have done Industry oriented Mini projects during III year II semester vacation period for a 3 week duration at reputed industries such as Hyderabad Metro Development Authority (HMDA), Outer Ring Road (ORR) Projects, Penna Cements, Hyderabad Municipal Water Supply and Sewerage Board (HMWSSB), Irrigation Department and other Major construction companies. The students submit the report in the 4<sup>th</sup> year 1<sup>st</sup> semester and are evaluated by a committee as per the academic regulations and marks are awarded during 4<sup>th</sup> year 1<sup>st</sup> semester end examination under title Industry oriented Mini Project for 2 credits

**19. Awards / recognitions received at the national and international level by**

- Faculty:
- Doctoral / post doctoral fellows : Post Doctoral Fellowship under CSIR, New Delhi
- Students: First batch is now in final year

**20. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.**

A 2-day National Workshop has been conducted on “**Finite Element Formulations in Civil Engineering Applications**”, during 30-31 Jan 2015. Invitation letters along with the program brochure have been sent to various universities, other institution and government organizations for participation. Sources of funding for organizing event are from registration fee and funding by the Management of the College.

Photo shown below is part of events in Two Day Workshop:



**21. Student profile course-wise:**

Name of the Course (refer question no. 2)	Academic Year	Applications received	% Selected		Pass percentage	
			Male	Female	Male	Female
<b>B.Tech. Program</b>	2014 - 15	Admission made by state level EAMCET Convener	79.2	20.8	First batch will be passing out in 2015.	
	2013 - 14		73.3	26.7		
	2012 - 13		73.3	26.7		
	2011 - 12		75	25		

Name of the Course (refer question no. 2)	Academic Year	Applications received	% Selected		Pass percentage	
			Male	Female	Male	Female
<b>M.Tech. Program</b>	2014 - 15	State wise centralized admission based on PGECET & GATE	70	30	Ist batch is admitted in 2015	

**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	-	100 %	-	-
M.Tech	-	100 %	-	-

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

As the first batch of Civil Engineering students are in fourth year second semester, they are yet to appear for the competitive exams like Civil Services, Engineering Services, Defense Services, NET, SLET, GATE and other competitive examinations.

**24. Student progression**

Student progression	Percentage against enrolled
UG to PG	N/A as the first batch is in 4 <sup>th</sup> year
PG to M.Phil.	-
PG to Ph.D.	N/A as the first batch is I <sup>st</sup> year
Ph.D. to Post-Doctoral	N/A as the first batch is in 4 <sup>th</sup> year



Student progression	Percentage against enrolled
Employed through Campus selection	10 %
Employed other than campus recruitment	N/A as the first batch is in 4 <sup>th</sup> year
Entrepreneurs	N/A as the first batch is in 4 <sup>th</sup> year

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	26 %
from other universities within the State	37 %
from other universities from other States	37%

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Mrs.B.Uma Radha has registered for Ph.D at JNTU, Hyderabad and has completed Ph.D course work and Pre Ph.D examination after joining CVR college of Engineering. Few other faculty members are in the process of applying for doctoral programs at State Universities.

## 27. Present details about infrastructural facilities

**a) Library-**Main library has 392 Titles and 2168 volumes text books towards B.Tech. Civil Engineering programme and 59 Titles and 376 volumes towards M.Tech. Structural Engineering programme. Main library also has 12 National level Journal subscriptions to update faculty and students about the recent developments in the thrust areas of Civil Engineering.

**b) Internet facilities for staff and students** – The civil engineering faculty are provided with 09 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 06 class rooms for B.Tech. programme , 01 class room for M.Tech. programme and additional tutorial rooms.

**d) Class rooms with ICT facility** (Information and Communication Technology) – Class rooms have LCD & OHP facility.

### e) Students' Laboratories

S.No.	Name of the Laboratory
B.Tech. Programme	
1	Surveying Laboratory
2	Strength of Materials Laboratory
3	Engineering Geology Laboratory
4	Computer Laboratory
5	Fluid Mechanics & Hydraulic Machines Laboratory

6	Geotechnical Engineering Laboratory
7	Environmental Engineering Laboratory
8	Cement and Concrete Laboratory
9	Highway Materials Testing Laboratory
<b>M.Tech. Programme</b>	
1	Structural Engineering Laboratory
2	Computer Aided Drafting Laboratory

- g) **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 and B.Tech project works.

**Photos shown below illustrate typical Civil Engineering Laboratories:**



Environmental Engineering Laboratory



Computerised Compression Testing Machine for Concrete Testing

**28. Number of students of the department getting financial assistance from College.**

Course	Course Year	No.of students Aailed Financial Assistance from State Govt. year wise			
		2014-15	2013-14	2012-13	2011-12
M.Tech	I Yr	8	-	-	-
B.Tech	I Yr	47	49	27	28
	II Yr	48	27	29	-
	III Yr	26	27	-	-
	IV Yr	26	-	-	-

**29. Was any need 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 and insufficient number of qualified and eligible candidates for State and Central government organizations such as Irrigation & CAD, Panchyatraj , Roads and Buildings etc.
- Need for qualified engineers to meet the demand in housing sector based on 12<sup>th</sup> five year plan.

**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 coverage of the syllabus and the academic achievements of the students are assessed through mid examinations, slip tests, 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 being 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.

**31. List the distinguished alumni of the department (maximum 10)**

Presently, the first batch students are in the final year second semester and hence there are no alumni from the department

**32. 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 activities.



Felicitating Dr.E.Sai Baba Reddy, Professor & Rector, JNTUH, in the inaugural function of Civil Engineering Association

**The following is the list of Guest Lectures organized by CESA**

S.No.	Topic of Guest Lecture	Date	Name of the Guest Speaker	Designation	Organization
1	Planning & Construction of Hydro Power Projects	27-12-2013	Sri.M.V.Ramana Murthy	Executive Engineer	APGENCO, Hyderabad
2	Latest Developments in Concrete Technology	23-01-2014	Dr.M.V.Seshagiri Rao	Professor	JNTU,Hyderabad
3	Recent Developments in Water Resources Engg.-Case Studies	12-08-2014	Dr.K.Srinivasa Raju	Professor	BITS Pilani, Hyderabad
4	Career Opportunities & Employable Skills for Civil Engineers	22-09-2014	Sri.M.Sridhar	Vice President	SEW Infrastructure, Hyderabad
5	Shuttering Systems & Their Significance in Construction Sector	14-10-2014	Sri.P.D.Varadarajan	Vice President	VASCON Engineers Ltd, Pune
6	Behavior of Continuous Structures & Segmentally Constructed Bridges	17-10-2014	Sri.Krishna Sandepudi	Vice President	Aarvee Associates Pvt. Ltd, Hyderabad

- The department also organizes one day industrial visit to the students.  
Department has organized visit to Nagarjun Sagar Dam, Visit to Outer Ring Road, Effluent treatment plant and *L&T Construction Skills Training Institute*.
- 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.

**33. List the teaching methods adopted by the faculty for different program.**

- Regular class work (chalk board, OHP, LCD Projector wherever necessary)
- Tutorials
- Assignments
- Quiz programmes
- Provision of additional laboratory equipment in addition to the equipment as prescribed in the syllabus.
- Industry oriented mini projects : Projects have been done in the following areas  
Construction of underpass  
Study of Cement manufacturing process – Case study – Penna industries  
Asphalt Mix design  
Construction challenges in high rise buildings.

**34. 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 course files and lab manuals. 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 selected topics in addition to the prescribed syllabus.
- Introducing value added courses in the curriculum.
- Assessment of Students evaluation in the assignments, technical seminars, mid exams, final exams etc.

College has attained Autonomous status from 2011-12 to 2019-20 accorded by JNTUH for 3 years followed by UGC for 6 years. This has given scope for faculty to participate in drafting course structure and syllabus. Paper setting and evaluation of end exam paper is partially done by faculty. This has enabled the faculty for direct review of the performance of the students and helps us to evaluate whether learning outcomes are met with or not and necessary actions to be taken in case of any short falls.

**35. 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 Tech Fest organized by the institution.
- Faculty and students participate in 5k run promoting social themes like HIV Awareness.
- Students and faculty liberally participate in the event “street cause” a drive taken up to provide books for needy orphan children.
- Around 15 students from each class and 6 faculty members participated in the SWATCHH BHARAT PROGRAMME an initiation taken by the institution.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Conducting Industrial tours for 2<sup>nd</sup> year and 3<sup>rd</sup> year B.Tech students every year.
- Organizing training classes for campus recruitment for pre-final and final year students.
- Organizing technical seminars.
- Faculty participation in various seminars and workshops
- Participation of our students in the technical events organized at other reputed institutes.

**37. State whether the program/ department is accredited/ graded by other agencies.****Give details.**

As the first batch of Civil Engineering students are in fourth year second semester, the department requires two more years (i.e., in 2016-2017 academic year) to get eligibility to apply to NBA.

**38. 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-the-art laboratories.
- Committed faculty with efficient teaming up skills.
- Eminent Professors/Scientists from the reputed Universities/Organisations associated with the Department.
- Frequent organization of Guest lectures and Workshops on on-going projects by Academicians from IITs, NITs, BITS, Universities 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 candidates as per norms.

**Opportunities:**

- To offer quality education and improve the work productivity of the students to make them better employable.
- Encouragement to pursue research by working on 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 within the state.
- Industry and Institution interaction.
- Attracting candidates with Ph.D. for faculty position.

**39. 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 centres 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.
- Testing the water bodies polluted by discharging industrial wastes, untreated sanitary Wastewater & agricultural runoff.
- Initiate public awareness programs on the construction of safe home against natural hazards and living safe against air pollution, land pollution and water contamination.
- To strengthen R&D activities.
- To improve academic qualification of the faculty
- To have MOUs with construction industries.

## E.2. COMPUTER SCIENCE & ENGINEERING

### 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. :

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:

i) B. Tech – Semester system with prescribed number of credits for each subject - Four years program.

ii) M. Tech – Semester system with prescribed number of credits for each subject – Two years program.



**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 Yr.	I SEMESTER	3
2	Data Structures through 'C' (Core Subject)	CIVIL/EEE/MECH	I Yr.	II SEMESTER	3
3	Computer Networks (Core Subject)	ECE	III Yr.	II SEMESTER	3
4	Computer Organization (Core Subject)	ECE / EIE	III Yr.	II SEMESTER	3
5	Operating Systems (Core Subject)	ECE	III Yr.	II SEMESTER	3
6	Computer Architecture (Core Subject)	EEE	III Yr.	II SEMESTER	3
7	Advanced Computer Architecture (Elective)	ECE	IV Yr.	I SEMESTER	3
8	Artificial Neural Networks (Elective)	ECE	IV Yr.	I SEMESTER	3
9	Network Security (Elective)	ECE	IV Yr.	I SEMESTER	3
10	Object Oriented Programming using C++(Elective)	EEE/EIE/MECH/CIVIL	IV Yr.	I SEMESTER	3
11	Database Management Systems(Elective)	EEE/MECH/CIVIL	IV Yr.	I SEMESTER	3
12	Object Oriented Programming Through Java(Elective)	EIE/ECE	IV Yr.	I SEMESTER	3
13	Artificial Neural Networks(Elective)	EIE	IV Yr.	II SEMESTER	3
14	Advanced Computer Architecture (Elective)	EEE	IV Yr.	II SEMESTER	3

**6. Number of teaching posts sanctioned and filled (Professors / Associate Professors / Asst. Professors)**

	B.Tech		M.Tech	
	Sanctioned (as per norms)	Filled	Sanctioned (as per norms)	Filled
Professors	4	3	1	1
Associate Professors	8	8	5	5
Assistant Professors	24	25	-	-

**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 (2014-15)**

S. 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.V. Chalapathi Rao	Ph.D. 1973	Professor & Dean Research	Real Time Operating Systems, Software Engineering	44	10
2	Prof. L.C. Siva Reddy	M. Phil UoH 1981 (Ph.D) OU	Professor & Head, CSE Dept. & Vice-Principal	Computer Networks	33	-
3	Dr. Raghava V Cherabuddi	Ph D (USA) M. S,( USA)	Professor CSE & Incharge of Placement	VLSI	15	-
4	Dr. N.V. Rao	PhD(CSE) JNTU-2008	Professor CSE	Image Processing	42	2
5	Mr.K.Venkateswara Rao	M. Tech JNTU 1993 Ph.D. Thesis submitted	Associate Prof.	Data Mining	21	-
6	Mr. C. Ramesh	M. Tech JNTU 2005 (Ph.D)	Associate Prof.	Data Mining Symantic Web	13	-
7	Mr. Raghava .M	M.Tech (CST) UoM 2003 (Ph.D)-HCU	Associate Prof.	Image Processing	12	-
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)-JNTU	Associate Prof.	Image Processing	19	-
10	Mr. Ch. Ram Mohan	Mr. Ch. Ram Mohan M. Tech 2006 (Ph.D)	Associate Prof.	Mobile Adhoc Networks	15	-
11	Smt. Sujana Cherabuddi	M.S (USA)	Associate Professor	Networks	12	

12	Mr. B. Ram Babu	M. Tech OU 2010 (Ph.D)	Associate Prof.	Sensor Networks	13	-
13	Mr. V. Dattatreya	M. Tech 2004 (Ph.D)	Associate Prof.	Software Engineering	15	-
14	Mr.V.Anand	M.S, M.Tech(CSE)20 14	Associate Prof.	Design Patterns	12	-
15	Mr. Suhail Afroz	M. Tech JNTU 2010	Sr. Asst. Prof.	Big Data	14	-
16	Mrs. S. Suguna Mallika	M. Tech JNTU 2012	Sr. Asst. Prof.	Software Engineering	6	-
17	Ms. V. Sowjanya	M. Tech JNTU 2010	Asst. Prof.	Data Mining	9	-
18	Mr. M.Hanimi Reddy	M. Tech JNTU 2013	Asst. Prof.	Web Services	9	-
19	Mr. Syed Muqthadar Ali	M. Tech JNTU 2013	Asst. Prof.	Software Engineering	11	-
20	Mrs. N. Vanaja	M. Tech JNTU 2012	Asst. Prof.	Network Security	9	-
21	Mr.D. Sujan Kumar	M. Tech JNTU 2010	Asst. Prof.	Data Mining	20	-
22	Mr. Sahith R	M. Tech JNTU 2012	Asst. Prof.	Software Engineering	9	-
23	Ms. G.Swetha	M. Tech JNTUH 2011	Asst. Prof.	Computer Architecture	9	-
24	Mrs. CH. Sarada	M. Tech	Asst. Prof.	Data Mining	10	-
25	Mr. N.Satyanarayana	M. Tech JNTUH 2010	Asst. Prof.	Data Mining	6	-
26	Mr.Ch. Ramalinga Swamy	M. Tech IIT Gwalior 2011	Asst. Prof.	Network Security	4	-
27	Mrs.Ch.Bhavani	M. Tech 2012	Asst. Prof.	Software Engineering	6	-
28	Mr.B.Ashwin Kumar	M. Tech 2011	Asst. Prof.	Network Security	5	-
29	Mr. N.Srihari Rao	ME(Ph.D)CSE	Asst. Prof.	Data Mining	8	-
30	Mr.R.Satya Prakash	M. Tech 2011	Asst. Prof.	System Programmin g	5	-
31	Ms.K.Baby Janaki	M. Tech 2009	Asst. Prof.	Software Engineering	3	-

32	Mrs.P.Madhavi	M. Tech 2009	Asst. Prof.	System Programming	11	-
33	Mrs.A.Harika	M. Tech 2011	Asst. Prof.	Software Engineering	3	-
34	Ms.Neeharika	M. Tech 2014	Asst. Prof.	Network Security	2	-
35	Mr.R.Arun Kumar	M. Tech 2012	Asst. Prof.	System Programming	5	-
36	Mrs.V.N.V.L.S. Swathi	M. Tech 2012	Asst. Prof.	Data Bases	9	-

**ii) Master of Technology. (M.Tech) CSE – Faculty list (2014-15)**

S. 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	20	-
2	Mrs. Sunitha Maddhi	M. Tech JNTU 2009	Sr. Asst. Prof.	Sensor Networks	10	-
3	Mrs.M. Sathya Devi	M. Tech JNTU 2011	Asst. Prof.	Cloud Computing	10	-
4	Mrs. S. Bharathi Priya	M. Tech UOM 2008	Asst. Prof.	Cloud Computing	10	-
5	Mrs. G. Ramya	M. Tech UOH 2010	Asst. Prof.	Artificial Intelligence	5	-
6	Mrs. Priti S 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) : 15:1  
 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>B.Tech</b>	12	12	1	1
<b>M.Tech</b>	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/- for 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:**

Nil

**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):

	2013-14	2012-13	2011-12	2010-11
International Journal	3	6	6	2
National Journals	4	8	6	2
International Conference	3	1	1	2
National Conference	1	1	2	1
International Workshop	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:**

- i) 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.
- ii) Liberal sanction of study leave for those doing PhD per six months with salary, two times during Ph.D. work.
- iii) Conducting short term seminars / workshops by inviting industry experts, researchers and Alumni.
- iv) Organizing Guest lecturers.
- v) Deputing faculty to attend workshops in other colleges.
- vi) Offering financial incentives for completing M.Tech in part time programme.

**18. Student projects**

Department of CSE is enriched with good academicians, Teachers with Industry experience and highly 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: Sri K Narender Reddy received his PhD from JNTU-A during 2012-13 while serving as Associate Professor in the Dept of CSE.
- 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 1<sup>st</sup> 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 Big Data	Self Support	Mr. CVS.Satya Murthy	16 <sup>th</sup> and 17 <sup>th</sup> Jan, 2014	Prof T. Eshwar, Professor CSE	Faculty from CVRCE
14 day work shop Android Application Development	Self Support	Mr.Suhail Afroz	18 <sup>th</sup> Jan to 07 <sup>th</sup> Feb 2012	Mr.K.Rama Krishna ( Alumni CSE)	Faculty from CVRCE
1 Day workshop on Cloud Computing	Self Support	K Venkateswar Rao	4 <sup>th</sup> Jan 2012	Dr Rajkumar Buyya , Univ. of Melbourne Rajeev Wanker, UoH	Faculty from CVRCE

**21. Student profile course-wise:**

Name 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
2009-11(M.Tech)		4	5	4	5
2010-12(M.Tech)		9	6	9	6
2011-13(M.Tech)		18	11	18	11
2012-14(M.Tech)		2	12	2	12



**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
No of Students	6	12	6	5	6

**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 <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	60% 18%
6	Entrepreneurs	2%

## Details of CSE GATE Toppers:

Year	Name	All India Rank	Higher Degree
GATE - 06	SSV Ravi Sri Ram	30	M.E, IISc- Bangalore Microsft. (PhD)-CMU
GATE - 08	B. Varun Reddy	54	M.E, IISc- Bangalore Goldman Sachs
GATE -10	V. Krisna Teja	75	M.Tech, IIT- Mumbai CISCO

GATE - 10	P. Rami Reddy	75	M.Tech, IIT- Mumbai EMC
GATE - 11	R Shashank	85	M.Tech, IIT- Mumbai Adobe
GATE - 10	Mr. Arun Kumar	93	M.Tech, IIT- Chennai Oracle
GATE - 10	Mr. Ashok Reddy	213	M.Tech, IIT- Roorkee Samsung
GATE - 11	B. Bala Murali Krishna	195	M.Tech, IIT- Mumbai Microsoft
GATE - 11	K Amarnath	831	M.Tech, IIT- Delhi

### 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 Ananthapuram AP in 2012-13
2	Mr.K.Venkateshwar Rao	Associate Professor	Submitted thesis to JNTU Hyderabad 2014
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
  - No of books:
  - Volumes: 7744
  - Titles : 1454
  - Internal Journals: 14
  - National Journals: 08

- Department Library: No of books/volumes: 468
  - Digital Library
  - DELNET :
  - E-Journals : 490
  - E-Book: 1296
  - DELNET - IESTC: 1577
- ii. Internet facilities for staff and students:
- |                                  |                                   |                 |               |
|----------------------------------|-----------------------------------|-----------------|---------------|
| ○ Name of the Internet provider: | <b>Apollo</b>                     | <b>Vaisnavi</b> | <b>BSNL</b>   |
| ○ Available bandwidth:           | <b>25Mbps</b>                     | <b>15Mbps</b>   | <b>10Mbps</b> |
| ○ Access speed:                  | <b>2Mbps (max) for individual</b> |                 |               |
- iii. Total number of class rooms:
- For B.Tech No. of class rooms 14 of 72 sqm. each. Tutorial rooms 4 of 35 sqm and Seminar hall of 150 sqm.
  - 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:

**B.Tech - Program:**

SNo	Lab Venue	Sqm / # of Students	Utilization
1	Computer Centre	215/60	Two sessions Per day( during college hours) 4.00 pm-6.00pm on request ( after class hours)
2	Computer Lab –I (Cellar CB)	194/60	
3	Computer Lab- II (112 CB)	224/60	
4	Computer Lab – III (204 CB)	212/60	
5	Projects Lab (Lab-IV) (202 Library Block)	215/65	
6	M.Tech Lab I (102 CB)	69/18	
7	Research Lab I (110 CB)	69/18	

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
  - ii) M.Tech Research Lab – Computer Block 110

Typical Computer Laboratory and Lady Faculty Room are shown in Photographs:



CSE Laboratory



Lady Faculty Room

28. Number of students of the department getting financial assistance from College/ GOVT:

SNo	Course	Course Year	No. of Students Aailed Financial Assistance				
			2014-15	2013-14	2012-13	2011-12	2010-
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 JNTUH, 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 session's 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.

- 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.

**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:**

- 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.
- Employers are involved as members of Governing Body, Academic Council and Board of Studies. 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 Seethepalli	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 lectures 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 tables display the list of students, who have participated in various events.

S.No.	Student name	Paper title/ Workshop	venue	Month & Year
1.	V omkareshwar, a pavan bharadwaj	Near field communication	MGIT, HYD	March , 2013
2.	V omkareshwar, a pavan bharadwaj	Near field communication	OU, HYD	March , 2013
3.	K dhikshit, ambati madhu	Smart quill	JNTU-HYD	March , 2013
4.	Ambati giridhar, D hitesh kumar,	Smart auto rickshaw meter	IIIT-HYD	March , 2013
5.	Krishna nikhil, K arun reddy	Face recognition using photometric technology	MGIT, HYD	March , 2013
6.	Krishna nikhil	Face recognition using photometric technology	JBIT, HYD	March , 2013
7.	K sandeep nair, Y sweta narayani	Gi-fi	VJIT, HYD	March , 2013
8.	A pavan bharadwaj,	Smart auto rickshaw meter	CBIT, HYD	Feb, 2013
9.	K poojitha, P neetha reddy	Red tacton	OU, HYD	March , 2013
10.	Ambati giridhar, D hitesh kumar	Magic finger	OU, HYD	March , 2013
11.	Srilatha nara, Susmita bompada	Health care system	MGIT, HYD	March , 2013
12.	Y sumana, P srija	Transfer jet	SNIST, HYD	March , 2014
13.	R. Nagalaxmisravva,	Silent sound technology	OU, HYD	March , 2014
14.	N.nikitha reddy	Outreach rounds - robo gravity	CVRCE	March , 2014

### Technical Talks Arranged by Department of CSE by industry people and Alumni:

1. 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.

2. 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.



3. 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.
4. Mr R Raghuvver -Alumni CSE, IBM has presented a technical talk “Internet of Things” to B.Tech IV- CSE on 18-10-2014.
5. Ms Preethi Ghalke, Project Manager, IBM addressed the B.Tech III- CSE students on Websphere on 18-10-2014.
6. 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.

Similar programmes were conducted in previous years also

### **33. List the teaching methods adopted by the faculty for different programmes.**

Department of CSE persuades the teaching community upon black 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 involved 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, and MIT etc.

Nevertheless 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 Applications 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:**

- Performance in the Mid and End semester exams.
- Technical Paper presentations
- Industry oriented mini projects
- Job Placement Data

**Indirect Assessment Tools are:**

- Alumni Survey
- Employer Survey
- Input from Department Advisory Committee
- Graduate Exit survey

Keeping in view the advise 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:

- Four Soft Skill Courses are introduced in each semester, with 2 periods per week to improve the performance of students in Campus Selections.
- Drawing and lab content has been increased in the revised regulations.
- 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.
  - Social awareness and responsibility enhancement talk organized for II B. Tech. students in the College campus on 6<sup>th</sup> November, 2013. Mr.Azmath Ali, Project Manager, Adult Literacy Programme, TCS, addressed 400 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 2<sup>nd</sup> 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 6<sup>th</sup> 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**

- Identify 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.

**Learning beyond the syllabus**

SNo	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.) III Prize M.N.Srikanth ( III Yr B. Tech.)
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 <sup>th</sup> 19 <sup>th</sup> 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, Hyderabad.	5 <sup>th</sup> &6 <sup>th</sup> 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

**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

<b>III-I</b>	Principles of Programming Languages	Case studies for different languages will be covered
<b>III-II</b>	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 <b>Task-aware computing: A new computing paradigm</b>

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.

<b>List of Students undergoing the training</b>	<b>Facilitators</b>
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 Adobeflex 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-2012to2-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 modules, 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
	<b>NBA-AICTE Accreditation visits and accreditation granted, if any . . .</b>
<b>2006-07</b>	* The Accreditation Team has visited the College during 25 <sup>th</sup> to 27 <sup>th</sup> 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.
<b>2012-13</b>	*The Accreditation Team has visited the College during 13 <sup>th</sup> to 15 <sup>th</sup> July, 2012. NBA-AICTE has issued order in Order File No.11-40/2010/NBA, Dt: 29-01-13, accrediting B.Tech.CSE, EEE, ECE, IT & EIE branches for a period of 2 years.
<b>2011-12 to 2013-14 (3 Years)</b>	JNTUH has accorded autonomous status for a period of 3 years
<b>2014-15 to 2019-20 (6 Years)</b>	UGC, New Delhi has accorded Autonomy for 6 years
<b>2012-13</b>	UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC act dated 19 <sup>th</sup> June 2012.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department:****Strengths:**

- CSE Department is NBA accredited twice earlier.
- The Department has 5 Professors, 9 Associate Professors and 29 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 Professors drawn with experience in Research labs, Industries like ECIL and Universities like Osmania University and JNTU.
- The Department has 14 programmers to assist students in the laboratories with either MCA, B.Tech or M.Tech., qualification.
- The Department has well equipped laboratories and infrastructure, with intranet and internet facilities.
- The Department has a good Department Library with sufficient number of latest text books covering different areas. It has good digital library collection.
- The Department has a spacious AC Seminar Hall with a capacity of 150 students with LCD Projector.
- More than 50% of students are being placed in the IT and ITES sectors every year. Some of them in product development companies.
- A large number of students are pursuing higher education in reputed Universities in India and abroad.
- About 10 faculty members have registered for Ph.D and two of them have submitted their theses and three more of them are in their submission stage, others all have completed their pre Ph.D exams.
- 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:**

- 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:**

- Open source software platforms are becoming available for Technology-Enhanced Learning, for widening the reach, and improving the effectiveness of Engineering Education
- Many alumni are offering substantial support to their Alma Maters.
- Establishing Excellency centers in collaboration with industry for exposing students to learn latest methodologies of software development techniques in the industry.
- UGC/DRDL is encouraging to carry out projects by sponsoring.

**Challenges:**

- In the emerging GATS scenario, Quality concerns need to be addressed urgently.
- Competition from international players and premier institutes.
- Increasing the research output and increasing the quality level of the students.

**39. Future plans of the Department:**

- Establishing an Computer Vision research lab which is a thrust area for research.
- Acquiring a Multi Core Rackserver along with tools to work in the area of parallel processing and parallel algorithms.
- Establishing a laboratory with routers switches and network tools to enable students get hands on experience on networking and network management.
- Establishing a Private and Hybrid Cloud environment exposing teachers and students to the problems of cloud applications and security issues.
- 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.)**

**UG (B.Tech):** Electronics and Communication Engineering

**PG (M.Tech):** VLSI System design,  
Embedded Systems,  
Wireless & Mobile Communication

**3. Names of Interdisciplinary courses and the departments/units involved:**

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):**

UG (B.Tech): semester based four year program with credit system

PG (M.Tech): semester based two year program with credit system

**5. Participation of the department in the courses offered by other departments:**

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(2014-15)**

	Sanctioned (As per AICTE Norms)	Filled (As per AICTE Norms)
Professors	7	7
Associate Professors	10	10
Asst. Professors	38	38

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
<b>Program: B.Tech ECE</b>		-	-			
1	Prof..C.VenkatRao	M.E., MBA	Emeritus Professor	VLSI&ES	Teaching 11 Industry 25	NIL
2	Dr. K.S. Nayanathara	B.E., M.E., Ph.D.	Professor of ECE & Principal	Microwave & Radar Engg.	Teaching 26 Industry 3	3
3	Wg Cdr Varghese Thattil	M.Tech, MBA	Professor & Head	Wireless Communications	Teaching 12 Industry 24	NIL
4	Prof.S.Sengupta	M.Tech, MBA	Professor & Dean Projects	IT & Communications	Teaching 11 Industry 24	NIL
5	Dr.P.Subrahmanyam	Ph.D	Professor	Embedded Systems	44	3
6	Mr.G.Ravi Shankar Reddy	M.E.	Assoc. Prof.	Systems & Signal Processing	11	NIL
7	Mr.P.Srinivasa Rao	M.Tech	Assoc. Prof.	Digital Systems & Computer Electronics	15	NIL
8	Mr. Karrar Hussain	M.Tech	Assoc. Prof.	VLSI	12	NIL
9	Mr. B. Ravinder	M.S	Assoc. Prof.	Communication Engg. Microwave Engg.	15	NIL
10	Mr. S.L. Narsimha Reddy	M.Tech	Assoc. Prof.	Digital Systems & Computer Electronics	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.	VLSI System Design	11	NIL
14	Ms.P.Kavitha	M.Tech	Assoc. Prof.	Micriwave & Radar Engg	11	NIL
15	Mrs.Dhruva R.Rinku	M.Tech	Assoc. Prof.	Digital Systems & Computer Electronics	11	NIL
16	Mrs.T. Padmavathi	M.Tech	Sr. Asst. Prof	Systems & Signal Processing	11	NIL
17	Mr. Shakeel Ahmed	M.Tech	Sr. Asst. Prof	Wireless Communication, Computer Networks, ES	16	NIL
18	Mrs.V. SreeLakshmi	M.Tech	Sr. Asst. Prof	VLSI System Design	9.5	NIL
19	Mr.M.Ashok	M.Tech	Sr. Asst. Prof	VLSI System Design	8.4	NIL
20	Mrs.Athira G.Krishna	M.Tech	Asst. Prof.	VLSI System Design	13	NIL
21	Mrs.A.Anitha	M.Tech	Asst. Prof.	Digital Systems & Computer Electronics	13	NIL
22	Mrs.M. V.Sushumna	M.Tech	Asst. Prof.	VLSI System Design	10	NIL
23	Mr.R.Prakash Kumar	M.Tech	Asst. Prof.	Digital Systems & Computer Electronics	7	NIL
24	Mr.K.Bapayya	M.Tech	Asst. Prof.	Digital Electronics Communication Systems	9	NIL

25	Mr.B.Janardhana Rao	M.Tech	Asst. Prof.	Communication & Radar Systems	8	NIL
26	Ms. A. Malleswari	M.Tech	Asst. Prof.	Digital Electronics And Communication Systems	7	NIL
27	Ms. P.Naga Malleswari	M.Tech	Asst. Prof.	Communication & Signal Processing	9	NIL
28	Mr. S Ravi Kanth	M.Tech	Asst. Prof.	Communication Systems	6	NIL
29	Mr. B. Shankar	M.Tech	Asst. Prof.	VLSI & Embedded System	5	NIL
30	Mr. M.Vinod Kumar Reddy	M.Tech	Asst. Prof.	ES	4	NIL
31	Mr. Mohd. Abdul Nasar	M.Tech	Asst. Prof.	Systems & Signal Processing	5	NIL
32	Mr. Suresh Raju	M.Tech	Asst. Prof.	VLSI Design	6 months	NIL
33	Mr. S. Naveen Kumar	M.Tech	Asst. Prof.	Systems & Signal Processing	11	NIL
34	Mr. Jail Singh	M.Tech	Asst. Prof.	Digital Techniques & Instrumentation	5	NIL
35	Ms. B.Rajani	M.Tech	Asst. Prof.	VLSI System Design	5	NIL
36	Ms. T. Subha Sri Lakshmi	M.Tech	Asst. Prof.	VLSI System Design	1	NIL
37	Ms. M. Santhoshi	M.Tech	Asst. Prof.	Systems & Signal Processing	2	NIL
38	Ms. G. Swapna Sri	M.Tech	Asst. Prof.	VLSI & Embedded System	4	NIL
39	Mr. P. Sreekanth	M.Tech	Asst. Prof.	Systems & Signal Processing	4	NIL

40	Ms.Shakira Begum Shaik	M.Tech	Asst. Prof.	Systems & Signal Processing	6	NIL
41	Mrs. Aditi Malhotra	M.Tech	Asst. Prof.	Communication Systems	3	NIL
42	Mrs.V.Rama Devi	M.Tech	Asst. Prof.	ES	8	NIL
43	Ms. P. Sahaya Asline	M.Tech	Asst. Prof.	Communication Systems	2 months	NIL
44	Ms. Varuna R T V	M.E.	Asst. Prof.	Applied Electronics	4	NIL
45	Mr.S. Shailesh R Somani	M.Tech	Asst. Prof.	VLSI	3	NIL
46	Mr.G. Ravi Kumar Reddy	M.Tech	Asst. Prof.	VLSI &ES	2	NIL
47	Mr. K. Arun Kumar	M.Tech	Asst. Prof.	ES	6	NIL
<b>M.Tech VLSI System design (Core faculty)</b>						
48	Dr.T.Esther Rani	Ph.D	Professor	Low Power VLSI	15	NIL
49	Mr.R.Ganesh	M.Tech	Sr. Asst. Prof.	VLSI System Design	6	NIL
50	Mrs.V.Silpa Kesav	M.Tech	Asst. Prof.	VLSI Design	6	NIL
51	Mrs. K.Venkata Lakshmi	M.Tech	Asst. Prof.	Digital Systems	17	NIL
52	Ms. Ch. Hema Latha	M.Tech	Asst. Prof.	Electronics & Communication	8	NIL
53	Ms. G. Vijaya Nirmala	M.Tech	Asst. Prof.	Communications & Signal Processing	4	NIL
<b>M.Tech Embedded System design (Core faculty)</b>						
54	Dr. G.V.Maha Lakshmi	Ph.D	Professor	Digital Image Processing	20	NIL
55	Ms.S. Sailaja	M.Tech	Asst. Prof.	ES & VLSI Design	9	NIL

56	Ms. T.Sravanthi	M.Tech	Asst. Prof.	Digital Electronics And Communication Systems	9	NIL
<b>M.Tech Wireless &amp; Mobile Communication (Core faculty)</b>						
57	Dr.Humaira Nishat	Ph.D	Professor	Wireless Communications	14	NIL
58	Mr. M. Srinivas	M.Tech	Asst. Prof.	Visual Information & Embedded Systems	3	NIL
59	Mr. P.Bhaskara Rao	M.Tech	Asst. Prof.	Communication Engg.	6 months	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 me-wise Student Teacher Ratio

SINO	Program	Student Teacher Ratio
1	B.Tech	15:1
2	M.Tech	12:1

### 10. Number of academic support staff (technical) and administrative staff: sanctioned and Filled

	Sanctioned	Filled
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.

#### RFID PROJECT

The ECE department had established a centre for RFID in the year 2007, headed by Prof. Sengupta, Director Projects, CVR. 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. Mrs. Nayanathara S
3. Prof. Wg Cdr Varghese Thattil
4. Ms. Dhruva R Rinku
5. Mr. Shakeel Ahmed

**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:

1. Prof. S.Sengupta
2. Dr. S Venkatachalam (Late)
3. Dr. Mrs. Nayanathara S
4. Dr. LVAR Sharma
5. Prof. Wg Cdr Varghese Thattil
6. Ms. Dhruva R Rinku
7. Ms. A. Bharahi
8. Ms. Humaira Nishath
9. Mr. P Srinivasa Rao
10. Ms. T. Ester Rani
11. Ms. T. Padmavathi
12. Ms. G. Mamatha
13. Mr. R. Prakash Kumar
14. Mr. B. Janardhan Rao
15. Ms. V. Sree Lakshmi
16. Mr. M. Ashok
17. Mr. M. Srinivas
18. Mr. R. Ganesh
19. Mr. B. Shankar
20. 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

#### **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.

### **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).

### **12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received.**

The following information provides the details of AICTE funded MODROBS and IIPC projects along with total grants received:

#### **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 Communication laboratory established in the department of ECE and the equipments is continually being upgraded. Wireless mobile communication in M.Tech course 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.

#### **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 6<sup>th</sup> and 7<sup>th</sup> 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.



**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:**

- \* Number of papers published in peer reviewed journals (national / international)

S.No	Year	Number of Publication
1	2013-14	12
2	2012-13	18
3	2011-12	23
4	2010-11	07
5	2009-10	03

(Details are available in the Department files.)

**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 And Devices	Mrs. K.A.Jyotsna
II YEAR I SEM	Basic Simulation	Mr. B. Janardhan Rao
III YEAR I SEM	Analog Communication	Mrs. Humaira Nishat/ Mr. R Prakash Kumar
III YEAR I SEM	IC Applications	Mrs. K.Venkata Lakshmi
IV YEAR I SEM	ECAD & VLSI	Mrs. V.Silpa Kesav
IV YEAR I SEM	Micro Wave & Digital Communications	Mrs. P.Kavitha

**Lab Manuals- II Semester**

Branch & Year	Name of the Laboratory	Lab Manual Prepared By
II Year II Sem.	Electronic Circuit Analysis	Mrs. K.A.Jyostna
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**

Prof. Dr. T. Esther Rani has a patent published in Official Journal of the patent office, issue number 22/2014 with application number 2376/CHE/2013 and publication date as 30/05/2014.

**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 around Rs. 9 lakhs was generated for the following Project as part of DRDO consultancy work.

Title	Amount	Sponsoring Agency
Development of Orthogonal Frequency Division Multiplexing (OFDM)	9.0 Lakhs	DRDO, Hyderabad

**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.

### 17. Faculty recharging strategies

The Department organizes the following activities under recharging strategies:

- i) New faculty- two week orientation and communication skills
- 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 colleges.
- 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.

### 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

#### ➤ **Doctoral / post doctoral fellows:**

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

Dr. T. Esther Rani- 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”

#### ➤ **Faculty**

Wg Cdr Varghese Thattil – Fellow member of IETE

Mrs. K.A.Jyotsna – IEEE Member

Mr. G.Ravishankar Reddy-IEEE Member

#### ➤ **Students**

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.

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

S.No.	Workshop Organized / Course conducted	Source of Funding	Dates
<b>2013-2014</b>			
1	Robotics Workshop on Android Mobile Controlled Robot	CVRCE	21 <sup>st</sup> -22 <sup>nd</sup> September,2013
2	Short term course on VLSI Design using Xilinx and Cadence tools	CVRCE	2 <sup>nd</sup> -5 <sup>th</sup> December,2013
3	Conference on Computer Vision Industry Institute Partnership Cell(IIPC)	AICTE	6 <sup>th</sup> -7 <sup>th</sup> March, 2014
4	Three day training on Cadence tools (Installation & Practice) in association with Cadence Design systems, Bangalore.	CVRCE	10 <sup>th</sup> -12 <sup>th</sup> November, 2014
<b>2012-2013</b>			
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	31 <sup>st</sup> March 2013
<b>2011-2012</b>			
1	Workshop on Semicustom design flow using Cadence tools	CVRCE	29 <sup>th</sup> June - 01 <sup>st</sup> July 2011
2	One day seminar on ASIC Design Verification at IETE Hall OU Campus	CVRCE	13 <sup>th</sup> November 2011
3	Eight Day Workshop on ASIC Physical Design Using Cadence Tools	CVRCE	6 <sup>th</sup> Aug to 3 <sup>rd</sup> 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

<b>2010-11</b>			
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 29 <sup>th</sup> –July 01 <sup>st</sup> , 2011
<b>2009-10</b>			
1	Workshop on Emerging trends in Wireless & Mobile Communications	CVRCE	Dec 2 <sup>nd</sup> -4 <sup>th</sup> , 2009
2	One day seminar on Embedded Systems	CVRCE	Dec-1, 2009

### 21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected For 2014-15 Admissions		Pass percentage Passed in May 2014	
		Male	Female	Male	Female
B.Tech ECE	Admissions are made by state level convener appointed by govt. based on EAMCET Rank / PGECET Rank	148	92	95	98
M.Tech VLSI		14	13	100	100
M.Tech ES		4	10	100	100
M.Tech WMC		5	4	100	100

### 22. Diversity of Students

A.Y 2014-15	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**

S.NO	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

**24. Student progression**

Student progression	YEAR				Percentage against enrolled			
	2011	2012	2013	2014	2011	2012	2013	2014
UG to PG	14	21	32	34	11	17.55	17.78	28.33
PG to M.Phil.	0	0	0	0	0	0	0	0
PG to Ph.D.	0	0	0	0	0	0	0	0
Ph.D. to Post-Doctoral	0	0	0	0	0	0	0	0
<b>Employed</b> Campus selection Other than campus recruitment	99	89	49	84	82.5	74.17	27.22	46.67
<b>Entrepreneurs</b>	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	(31)53.44	8.62 (5)	15.51(9)	0
PG	(28)48.27	(6)10.34	(10)17.24	(1)1.72
Ph. d	(6)10.34	(2) 3.44	0	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.

S.No.	Name	Specialization	Year of award
1.	Dr. G.V. Maha Lakshmi	Digital Image Processing	2014
2.	Dr. Esther Rani	VLSI	2014
3.	Dr. Humaira Nishat	Communications	2014

**27. Present details about infrastructural facilities****i) Library**

Total no. of titles-11516
Total no. of volumes-52277
Total no. of national journals-135
Total no. of international journals-34
Total no. of e-journals-2075
Seating capacity-350
Working hours-9AM -6PM

**ii) Internet facilities for staff and students**

Name of the Internet provider:	Apollo	Vainavi	BSNL
Available bandwidth:	25Mbps	15Mbps	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 for whole campus

**iii) Total number of class rooms:**

15 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	13	Good	Available
Pulse & Digital Circuit Lab	206MB	13	Good	Available
VLSI Lab& ECAD lab B.Tech Projects	217MB	12	Good	Available
Simulation Lab	314MB	13	Good	Available

Microwave & Communication Lab	Digital	303MB	12	Good	Available
IC Applications Lab		206MB	13	Good	Available
Embedded Systems Lab		320MB	12	Good	Available
MP& MC Lab		219MB	12	Good	Available
Electronic Analysis/Basic Simulation Lab	Circuit	314MB	13	Good	Available
Electronic Devices & Circuits Lab-1&2		223 & 224MB	13	Good	Available
Electronic Devices & Circuits Lab-3		207MB	13	Good	Available
WMC Lab for projects		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.

**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 Received)	2013-14 (Aailed)	2012-13 (Aailed)	2011-12 (Aailed)	2010-11 (Aailed)	2009-10 (Aailed)
I Yr.	99	101	115	74	48	56
II Yr.	99	114	72	48	56	49
III Yr.	114	73	50	57	43	41
IV Yr.	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.	I Yr.	12	5	10	0	6	8
	( VLSI Design	II Yr.	5	10	10	5	6	9



2	M. Tech.	I Yr.	6	7	8	0	0	0
	( WMC )	II Yr.	7	8	5	0	0	0
3	M. Tech.	I Yr.	4	3	7	0	2	10
	( E.S )	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.

**29. Was 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 4weeks 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.
- Demand of the course by examining number of colleges offering such a course and seats filled over last three years.
- Employment potential.
- 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 direct involvement of faculty in preparing 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 in charge 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 – The 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 like. Following are some of the corrective measures:

1. Suggestion on the method of preparation
2. Possible pedagogy that can be adopted
3. Methods of improving interaction with students
4. Arranging special classes for the students
5. Reduction in teaching load
6. 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)**

Sl. No.	Name	Company
1	Nagarjun Chakilam	MathWorks
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

**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.**

The following tables display the list of students, who have participated in various events in the academic years.

**Academic Year (2013 – 2014)**

S 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.Ramyasri Seema. 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 Sysyem	OU
12	B.Srujana G.Sravya	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

There are similar programs attended/published technical papers in the previous years.

### 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

**Indirect Assessment Tools:**

- Alumni Survey
- Employer Survey
- Course Exit Survey

With the College having Autonomous Status, teacher had direct scope to

- i) Frame syllabus
- ii) Stress on important topics and their relevance
- iii) Learning by student is monitored through performance in internal examination
- iv) Quiz assignment and internal tests 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) Project guidance, Mini Project guidance, Industry related Mini Project are continuously done under the guidance of teacher.
- vii) 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.

**35. Highlight the participation of students & faculty in extension activities?**

**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.

**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.
- The Special Camp At Mangalpalli (V) During 2<sup>nd</sup> December 2011 To 9<sup>th</sup> 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 6<sup>th</sup> 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 6<sup>th</sup> 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 2<sup>nd</sup> Jan 2014. 25 trainers from B.Tech 3<sup>rd</sup> year, participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.

#### LIST OF ACTIVITIES CONDUCTED IN THE CAMP.

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 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> 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

#### 36. Give the details of “beyond syllabus scholarly activities” of the Dept.

The ability of learning beyond syllabus is more encouraging in B.Tech. 3<sup>rd</sup> and 4<sup>th</sup> 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.

#### List of Mini-Projects carried out:

S.No.	Title of the Project
1	Automatic Cup Filler
2	Microcontroller based DC Motor
3	Wireless Data Encryption and Decryption for secured communication using RF
4	Interplanetary Module Driven Rover
5	Mobile Bug Project
6	Home Automation using LDR and Temperature sensors
7	Interfacing a Graphical LCD to Controller
8	Under Vehicle Scanner
9	Wireless Mobile operated fire extinguisher robot using Bluetooth (via Android mobile)
10	Contactless Tachometer using Microcontroller
11	Measurement of S-parameters of a Microwave component using VNA
12	Security integrated system based on Wireless Access Protocol for industrial Applications with SMS Alert system using GSM Modem
13	Automatic Battery Charger
14	Automatic Wireless Health Monitoring system in hospitals for patients
15	Child safety system using RF based intelligence
16	Haptic Walking Stick
17	RFID concept based Paid Car Parking
18	Automatic Water level indication and overflow avoidance system
19	Rain water Alarm system
20	Modern Agricultural system using RTC
21	Three dimensional digital image skeletonisation
22	Soil moisture and temperature based irrigation water pump control system
23	RF ID based patient information system
24	PIR and GSM based home security system
25	Gas leakage detector with Auto On-off gas system
26	Design of operational transconduction amplifier using 90nm technology
27	Propeller Display



28	Atomized car parking lot
29	Ultrasonic distance measure
30	Android based electronic notice board
31	Detection of Defects in Capsules
32	DTMF based wireless notice board
33	DTMF based telephone operated calling system
34	Bi-directional visitor counter
35	Speaker Recognition by using biometric authorization technique
36	Automatic Railway gate controller
37	Virtualization of Piano
38	Automatic Car parking slot indicator
39	Bluetooth based home automation
40	Fire detector with automatic water sprinkler
41	PING Transmission Using AT89S52 Microcontroller
42	Using TV Remote as a Cordless Mouse for the PC
43	Ambulance Route Clearing System using Zigbee technology
44	Auto Intensity Control of Street Lights
45	Heart Rate Monitor Using 8051 Microcontroller
46	Image Processing of Digital Radiographic Films using Matlab
47	Simulation of electromagnetic Wave Propagation Using FDTD Method
48	Automated Control System for Air Pollution Monitoring
49	Design & Implementation of Automatic Flight system with Enhanced Ground Proximity and Collision Avoidance
50	Electronic Result Automation(ERA)
51	Password based Door Lock System using 8051 Microcontroller
52	RF based Station Name Display & Announcement System
53	CAN based Accident Avoidance System
54	High Secure Biometric System based on Feature Level Fusion
55	Hand movement based fan speed controlling system
56	Over Speed Detection & Oversampled Warning using 8051 Family Microcontroller
57	Foot Step Power Generation using Piezoelectric Crystal
58	Automatic Temperature Controlled Fan
59	Implementation of Portable Automobile Exhaust Analyser
60	Street Light that Glows on Detecting Vehicle Movement using 8051 MCU

**B.Tech 1- year**

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
C programming and data structures	Inadequate lab sessions as per university time table	Extra labs are conducted

**B.Tech II Year**

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
Signals & Systems	The coverage of Fourier Transform	Introduction to short-time Fourier Transform
PDC Lab	Implementation of Multivibrators using FETs	Multivibrators using FETs

**B.Tech III Year**

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
Digital Communication	Exposure to OFDM & CDMA	Orthogonal FDM, CDMA
Digital Signal Processing	Word length effects in Digital Filters	Finite word length effect in FIR & IIR filters, and lattice structure realizations of FIR & IIR, Computer Aided FIR filter design

**B.Tech IV Year**

Course Name	Deficiency identified	Additional efforts/content beyond syllabi
Computer Networks	Lagging of coverage of Internet Protocols	Internet Protocols
Embedded & Real Time Systems	Gap of OS fundamentals	Basics of Operating Systems, More number of Models of Computations.
Radar Systems	Application part of Radar	X band active radar for Marine Applications, & Radar Jammers
Digital Image Processing	Gap of advanced transforms on Images	Wavelet Transform
MW & Optical Comm. Lab.	Importance of Antenna Pattern Measurement	Antenna Pattern Measurement

**37. State whether the program/department is accredited/graded by other Agencies. Give details.**

<b>2006-07</b>	The Accreditation Team has visited the College during 25 <sup>th</sup> to 27 <sup>th</sup> 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.
<b>2012-13</b>	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 .

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

UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC Act dated 19<sup>th</sup> 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. The Department has a treasure of qualified faculty with right blend of industry expertise and academic experience.
3. The Accreditation initiatives of NBA are serving to promote quality improvement in delivering education in various disciplines of the Department.
4. The recognition of the role of Electronics and Communication in several sectors relevant for National development sparks up the efforts of the Department.
5. The P.G courses offered by the Department cover important areas of the department ; VLSI System Design, Wireless and Mobile Communication and Embedded Systems.
6. After becoming an Autonomous institution; the overall student development and their placements in reputed private sectors have increased substantially.
7. 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.

#### **Opportunities:**

1. Industry standard tools (Cadence tools, Xilinx etc.) are 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. Very effective interaction with reputed resource persons and their availability helps the department for guidance and expert lectures.
4. A highly encouraging Management that promotes 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's students intake.
2. Lack of availability of job opportunities in the core sector.
3. Tendency of research scholars to prefer computer based research over experimental research

### 39. Future development of the department

From the very beginning, the ECE Department has taken the lead in establishing well-equipped and modern Lab facilities as well as initiating Ph.D programs and Research and Development in the Institute. The Department is set on to develop the Department into a full-fledged centre of learning in various fields of Electronics and Communication Engineering, keeping in view of the latest academic and industrial developments and also to create technical manpower for meeting the current and future demands of industry & academia.

#### Research and Development

- 1) This department has entered into prestigious contracts with **ECIL and DRDO** for developing high end products. Presently work is going on for the development of sophisticated circuitry for MRI scanning and related projects. The department plans to get into more such consultancies and developmental activities in collaboration with industries situated in and around Hyderabad.
- 2) The department plans to submit proposals for research work in respect of faculty members pursuing research to funding agencies like UGC, AICTE, DST and CSIR etc;
- 3) Department plans to ensure that most of the faculty members involve in research activity leading to award of Ph.D Degree.
- 4) It is proposed to realize a centralized platform, to conduct R & D work in the area of Unmanned Aerial Vehicles (UAV), involving the relevant departments of our college.
- 5) Building a common **UAV** Test Center in the campus and creating a sophisticated
- 6) To set up a (software Defined Radio) **SDR** research laboratory: Given an RF front end capable of converting desired range of frequencies to and from raw digital samples at a rate useful 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 etc. can all be done from the same computer without any digital signal processing hardware specific to any particular scheme.

## 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 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-II	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

B. Tech/M. Tech: Semester system with credits specified for each subject

### 5. Participation of the department in the courses offered by other departments.

EEE Department participates by handing 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)**

	Sanctioned as per AICTE norms	Filled
Professor	03	03
Associate Professors	07	07
Asst. Professors	18	18

**7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)**

S. No	Name of the Faculty	Designation	Qualification	Specialization	No. of Years Exp.	No. of Ph.D. Students guided in the last 4 years
1	Dr. A. D. Raj Kumar	Prof & Dean academics	Ph. D	Power systems	35	04
2	Dr.S.Venkateshwarlu	Prof. & Head	Ph. D	Power Electronics	21	04 (Guiding)
3	Dr. K. Dhanvanthri	Emeritus Professor	Ph. D	Power systems	40	2 <sup>0</sup>
4	Dr.N.N.V. Surendra Babu	Professor	Ph.D	Power Electronics	14	-
5	Mrs. G. Sree Lakshmi	Associate Prof.	M.Tech (Ph. D Thesis submitted)	Power electronics & Industrial drives	12	-
6	Mr. G. Manohar	Associate Prof.	M.E (Ph. D)	Industrial drives & control	16	-
7	Mr. B. Kalyana Chakravarthy	Associate Prof.	M.E (Ph. D)	Industrial drives & control	10	-
8	Mrs. R. Naveena Bhargavi	Associate Prof.	M.Tech (Ph. D)	Power Systems	13	-

9	Mr. A. Naveen Kumar	Associate Prof.	M.Tech	Power systems	8	
10	Mr.Ch. Lokeshwar Reddy	Associate Prof.	M.Tech (Ph. D)	High Voltage engineering	12	-
11	Mr. P. Rajesh Kumar	Associate Prof.	M.E	Power Systems	10	-
12	Mr. Rajib Kumar Kar	Sr. Asst. Prof.	M.E	Power Systems	27	-
13	Mrs. Vimala Gupta	Asst. Prof.	M.E	Industrial drives & control	11	-
14	Mr. P. Vinodh Kumar	Asst. Prof.	M. Tech	Power Electronics	7	-
15	Ms. E. Hima Bindu	Asst. Prof.	M. Tech	Power Electronics & Industrial Drives	7	-
16	Mr. G.Janardhan	Asst. Prof.	M.E	Industrial drives & control	4	
17	Mr.K.Suman	Asst. Prof.	M.Tech	Power Electronics & Industrial Drives	4	
18	Mrs.M.Rajasree	Asst. Prof.	M.Tech	Embedded Systems	5	
19	Ms.M.Rajitha	Asst. Prof.	M.Tech	Power Systems	3	-
20	Mr. D. Sreenadh Reddy	Asst. Prof.	M.Tech	Power Systems	3	-
21	Ms. P. Sudeepika	Asst. Prof.	M.Tech	Power Industrial Drives	5	-
22	Mr. C. Krishna Reddy	Asst. Prof.	M.Tech	Power Electronics	5	-
23	Mr. Santosh Kulkarni	Asst. Prof.	M.Tech	Power Electronics	1	
24	Ms.Ch. Shravani	Asst. Prof.	M.Tech (Ph.D)	Power Electronics	6	-

25	Mr. S Raja Saraswatiram	Asst. Prof.	M.Tech	Power Systems	2	-
26	Mr.Sravan Kumar Kotha	Asst. Prof.	M.Tech	Measurements & instrumentation	3	-
27	Mr. Ravi Teja	Asst. Prof.	M.Tech	Power Electronics	1	-
28	Ms. K. Deepika	Asst. Prof.	M.Tech	Power Systems	1	-
29	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: 15:1

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., total grants received Design and installation of 120 KW solar power plant: Cherabuddi educational society, Hyderabad.**

**Solar Power Plant:**

With the increasing energy demands we took an initiative to generate and utilize eco-friendly energy in our college campus.

Solar Power Plant of 120 KW is installed in the college on roof top of PG block and is operational from the last 10 months.

- 2×60 KW units with 6 string inverter are installed to generate the required power.
- No. of panels are 480 with each rated at 250W.



- There is an investment of Rs.114 Lakhs for this solar plant with a subsidy of Rs.30 Lakhs Govt. of India Company. PEC (P) Ltd installed the solar plant.
- Plant is installed in the month of March, 2014 and able to save Rs 1 lakh per month approximately so far.

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 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.

- Moreover, an additional 240 KW solar plant is being installed in the campus.
- There is an innovative project of the Department, completely funded by the Management of the College and the benefit is realized continuously.

### 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. A.D. Rajkumar	45
2	Dr.S.Venkateshwarlu	7
3	Dr. K. Dhanvanthri	10
4	Dr. N.N.V. Surendra Babu	6
5	Mrs. G. Sree Lakshmi	14
6	Mr. G. Manohar	4
7	Mr. B. Kalyana Chakravarthy	1
8	Mrs. R. Naveena Bhargavi	2
9	Mr. A. Naveen Kumar	2
10	Mr.Ch. Lokeshwar Reddy	5
11	Mr. P. Rajesh Kumar	4
12	Mr. Rajib Kumar Kar	2
13	Mrs. Vimala Gupta	-
14	Mr. P. Vinodh Kumar	1
15	Ms. E. Hima Bindu	1
16	Mr. G.Janardhan	-
17	Mr.K.Suman	7
18	Mrs.M.Rajasree	-
19	Ms.M.Rajitha	-
20	Mr. D. Sreenadh Reddy	1

21	Ms. P. Sudeepika	4
22	Mr. C. Krishna Reddy	1
23	Mr. Santosh Kulkarni	1
24	Ms.Ch. Shravani	4
25	Mr. M.Apparao	1
26	Mr. S Raja Saraswati Ram	-
27	Mr.Sravan Kumar Kotha	-
28	Mr. Ravi Teja	-
29	Ms. K. Deepika	-

**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: Available in Department files. However lists for 2012-13 & 2013-14 are furnished hereunder:

**Publications in National / International Journals in the year 2012-13:**

1. **Mr. Ch. Sunil Kumar**, Assoc. Prof of EEE Dept. published a paper titled **“Available Transfer Capability Based Transmission Loading Relief (TLR) in Deregulated Power System”**, in the International Journal ICGST – ACSE Journal Vol. 12, Issue 1, in June, 2012.
2. **Mr. Ch. Sunil Kumar**, Assoc. Prof of EEE Dept. published a paper titled **“Determination of Spot Price and Optimal Power Flow in Deregulated Power System”**, in the International Journal of Innovative System Design and Engineering, Vol.3, No. 3, in June, 2012.
3. **Mr. Ch. Sunil Kumar**, Assoc. Prof of EEE Dept. published a paper titled **“Available Transfer Capability Calculations with Contingencies for Andhra Pradesh State Grid”**, in the International Journal of Scientific and Engineering Research, Vol. 3, Issue 6, in June, 2012.
4. **Mr. P. Nagaraju Mandadi**, Assoc. Prof of EEE Dept. published a paper titled **“Power System Transient Stability Analysis with SSSC Controller”**, in CVR Journal of Science and Technology, Vol. 2, in June, 2012.
5. **Dr. Sasikala**, Professor of EEE Dept. published a paper on **“An Over View Of Dynamic Voltage Restorer for Voltage Profile Improvement”**, in an International Journal of Engineering and Advanced Technology Vol.2, Issue.2. in December, 2012.

- 6 **Mrs.M.Sasikala**, Professor .EEE Dept presented a Paper on “**Impedance Spectroscopic studies on PANi/CeO<sub>2</sub> Composites**” in International Journal Of Electrical Engineering and Technology, Volume no.4,Issue no.1,Page nos.1-8,2013.
- 7 **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., published a paper on “**Multilevel Inverters Fed PMSM drive using Carrier Based Space Vector Pulse Width Modulation** “in the CVR journal of Science & Technology, Vol. No. :3, December ,2012, ISSN 2277-3916.
- 8 **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., published a paper entitled “**Closed loop control of five level Diode Clamped inverter fed PMSM drive using sinusoidal pulse width modulation(SPWM)** ”in 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**, Associate Professor, EEE Dept., published a paper entitled “**Analysis of two and three level diode clamped multilevel inverter fed PMSM drive using space vector pulse width modulation** “in 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**, Associate Professor, EEE Dept., published a paper titled “**A control Approach for Distributed Power Flow Controller**” in 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**, Associate Professor, EEE Dept., published a paper titled A paper titled “**Design and Control of Distributed Power Flow Controller(DPFC)**”got published in CVR Journal of Science & Technology, Vol.No.3,December 2012,ISSN 2277-3916.

#### **Publications in National and International Conferences in the year 2012-13:**

1. **Mr. G. Manohar**, Assoc. Prof of EEE Dept. presented a paper titled “**HVDC Connection of OffShore Power Plants**”, in an International Conference on “Electrical and Electronics Engineering”, at Tirupathi, in June, 2012.
2. **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 29<sup>th</sup> -30<sup>th</sup> September, 2012.
3. **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 29<sup>th</sup> – 30<sup>th</sup> September, 2012.
4. **Dr. M. Sasikala**, Professor of EEE Dept. presented a paper titled “**Studies on Dc Conductivity and LPG Sensing Behaviour of PANI/CCO<sub>2</sub> Composites**”, in an International Conference on Recent Advances in Material Science (RAMS-2012) organized by Karnataka State Higher Education Council at Bangalore from 6<sup>th</sup> – 8<sup>th</sup> November, 2012.

5. **Mr. K. Suman**, Asst. Prof of EEE Dept. presented a paper titled “**Direct Torque Controlled Induction Motor with Space Vector Modulation Fed with a Three-Level Inverter**”, in IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES-2012) conducted by CPRI- Bangalore, from 16<sup>th</sup>-19<sup>th</sup> December, 2012.
6. **Mr.P.Ravibabu**, Professor .EEE Dept presented a Paper on “**New Heuristic Search approach to enhance the distribution sytem load balance**” under ‘oral presentation category’ from 6<sup>th</sup> -8<sup>th</sup> Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013.
7. **Mr.P.Ravibabu**, Professor .EEE Dept presented a Paper on “**Maximum Demand Limiter For Reliable Supply by Reducing the Power Cuts to Domestic Loads**” under ‘oral presentation category’ from 6<sup>th</sup> -8<sup>th</sup> Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013.
8. **Mr. 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 6<sup>th</sup> -8<sup>th</sup> Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.
9. **Mr. P.Ravibabu**, Professor .EEE Dept presented a Paper on “**Application of Novel DSM Techniques for Industrial Peak Load Management**” under ‘oral presentation category’ from 6<sup>th</sup> -8<sup>th</sup> Feb,2013 at IEEE International Conference on Power Energy and Control(ICPEC)-2013 in PSNA College Of Engineering & Technology, DINDIGUL, Tamilnadu.
10. **Mr. P.Ravibabu**, Professor .EEE Dept presented a Paper on “**Fuzzy Controlled Intelligent Water Cooler for Energy Conservation and Customer Satisfaction**” under ‘oral presentation category’ from 6<sup>th</sup> -8<sup>th</sup> Feb, 2013 at IEEE International Conference on Power Energy and Control (ICPEC)-2013.
11. **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 10<sup>th</sup> March, 2013.
12. **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., contributed a paper entitled “**Multilevel Inverters Fed PMSM drive using SPWM**” in two days International Conference held in Jawaharlal Nehru University(J.N.U), New Delhi,16<sup>th</sup> & 17<sup>th</sup> March, 2013.
13. **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., published a paper on “**Closed loop PI control of PMSM for Hybrid Electric Vehicle using three level diode clamped inverter for optimal efficiency**” in the proceedings of IEEE International Conference on Energy Efficient Technologies for Sustainability, Nagercoil, Tamilnadu, India, on April 10<sup>th</sup> & 12<sup>th</sup>, 2013.
14. **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., presented a paper entitled “**Analysis of two & three level diode clamped multilevel inverter fed PMSM drive using space vector pulse width modulation (SVPWM)** ” in 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<sup>th</sup> & 28<sup>th</sup> April, 2013.
15. **Mrs. G. Sree Lakshmi**, Associate Professor, EEE Dept., presented a paper entitled “**Closed loop control of five level Diode Clamped inverter fed PMSM drive using sinusoidal pulse width modulation (SPWM)**” at the 2<sup>nd</sup> International Conference on Recent Advances in Sciences and Engineering at Hyderabad (ICRASE), India on 29<sup>th</sup> & 30<sup>th</sup> April, 2013.
  16. **Mr. Ch. Sunil Kumar**, Associate Professor, EEE Dept., presented the research manuscript entitled “**Available Transfer Capability Computations-A case study of Andhra Pradesh State Grid**” in the IEEE International Conference on Advanced Research in Engineering and Technology (IEEE ICARET-2013), Organized by KL University, Vaddeswaram, Guntur District during 8<sup>th</sup> & 9<sup>th</sup> February 2013.
  17. **Mr. Rajib Kumar Kar**, Sr. Asst. Professor, EEE Dept., presented the research manuscript entitled “**Analysis Of Doubly Fed Induction Generator Connected to grid**” in the IEEE International Conference on Advanced Research in Engineering and Technology (IEEE ICARET-2013), Organized by KL University, Vaddeswaram, Guntur District during 8<sup>th</sup> & 9<sup>th</sup> February 2013.

#### **Participation in Workshops in 2012-2013:**

1. **Ms. E. Hima Bindu**, Asst. Prof of EEE Dept. participated in a two-day workshop on “**Matlab Applications**”, organized by GITAM UNIVERSITY, Hyderabad on 21<sup>st</sup> and 22<sup>nd</sup> September, 2012.
2. **Ms. G. Sree Lakshmi**, Assoc. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**” organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
3. **Mr. G. Manohar**, Assoc. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
4. **Mr. Ch. Sunil Kumar**, Assoc. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
5. **Mr. B. Kalyan Chakravarthy**, Assoc. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
6. **Ms. R. Naveena Bhargavi**, Assoc. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
7. **Mr. Rajib Kumar Kar**, Sr. Asst. Prof of EEE Dept. participated in a three day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
8. **Mr. A. Naveen Kumar**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
9. **Ms. Vimala Gupta**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
10. **Mr. Vinodh Kumar**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
11. **Ms. Y. Sudha Rani**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.

12. **Ms. E. Hima Bindu**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
13. **Mr. K. Lokeswar Rao**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
14. **Mr. G. Janardhan**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
15. **Mr. K. Suman**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
16. **Ms. M. RajaSree**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
17. **Mr. J. Praveen Kumar Reddy**, Asst. Prof of EEE Dept. participated in a three-day workshop on “**MATLAB**”, organized by CVRCE, Hyderabad from 13<sup>th</sup> – 15<sup>th</sup> December, 2012.
18. **Mr. P. Nagaraju Mandadi**, Assoc. Prof of EEE Dept. attended a National Level workshop on “**Quality and Reliability in Engineering**”, conducted by Sreenidhi Institute of Science and technology under TEQIP-II from 29<sup>th</sup> – 31<sup>st</sup> December, 2012.

#### **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 22<sup>nd</sup> September 2012.

#### **Publications in National / International Conferences / Journals in the year 2013-14:**

1. **Ms. G. Sree Lakshmi**, Assoc. Prof. of EEE Dept. published a paper on “**Closed Loop Control of Three – Level Diode Clamped Inverter Fed IPMSM with Different Modulation Techniques**”, in an 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**, Assoc. Prof. of EEE Dept. has published a paper on “**Simulation Analysis of IPMSM with Three and Five Level DCML Inverter Using CBSVPWM Technique**”, in an International European Scientific Journal, Vol 9, No 21, in July, 2013.
3. **Ms. E. HimaBindu**, Asst. Prof. of EEE Dept. with Sujatha Dhanorkar, student (M.Tech) of CVR College of Engineering, published a paper on “**Voltage Sag Mitigation Analysis Using DSTATCOM Under Different Faults in Distribution System**”, in the International Journal of Emerging Trends in Electrical and Electronics IJETEE, Vol 9, Issue 1, in November, 2013.
4. **Mr. Ch. Lokeshwar Reddy**, Assoc. Prof. of EEE Dept. presented a paper on “**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**, Assoc. Prof. of EEE Dept. presented a paper on “**Fuzzy Logic PID Controller for Three-Level DCML Inverter Fed IPMSM using SVPWM**”, at 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**, Assoc. Prof. of EEE Dept. presented a paper on “**An Efficient Multilevel- Synthesis Approach and its Application to a 27-Level Inverter**”, in the World Congress on Engineering and Computer Science 2013, in San Francisco, USA, from 23rd - 25th October, 2013.

7. **Ms. G. Sree lakshmi**, Assoc. Prof of EEE Dept. presented a paper on “**Three –Level DCML Fed PMSM Using SPWM & CBSVPWM Varying Modulation Index**”, at 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**, Assoc. Prof. of EEE Dept. presented a paper on “**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<sup>th</sup> & 31<sup>st</sup> March 2014.
9. **Dr. N.N.V. Surendra Babu**, published a paper on IEEE transactions on power delivery titled “Cascaded two level inverter based multilevel STATCOM for high power applications”, Vol.29, Iss:3, Pages:993-1001, June, 2014.
10. **S.Venkateswarlu**, KSV.Phani kumar, Divya.G “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.

### **(C) Participation in Workshops in 2013-2014:**

1. **Mr. G. Manohar**, Assoc. Prof. of EEE Dept. attended a one day National Level Workshop on “**Advanced Power System Protection**”, **APSP 2013**, conducted by Vignan Institute of Technology and Science, Deshmukhi, in Hyderabad, on 27th July, 2013.
2. **Ms. G. Sree lakshmi**, Assoc. Prof, **Ms. R. Naveena Bhargavi** Assoc. Prof, **Mr. Rajib Kumar Kar**, Sr. Asst. Prof and **Ms. M. Rajasree**, Asst. Prof of EEE Dept. attended a two week faculty development programme on “Recent Trends in Automation and Control”, in CVR College of Engineering from 11<sup>th</sup> - 22nd November, 2013.
3. **Ms. G. Sree lakshmi**, Assoc. Prof. of EEE Dept. attended an ISTE sponsored STTP-Refresher Course on “**Applications of Power Electronics in Power Systems**”, organized by Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology from 25th November - 6<sup>th</sup> December, 2013.
4. **Ms. G. Sree lakshmi**, Assoc. Prof. of EEE Dept. attended a two day training programme on “**Maintenance of 33/11 KV sub-station, PTR’s and DTR’s, Distribution Network and SCADA**”, at Central Power Training Institute/APCPDCL/Hyderabad on 4th and 5th December, 2013.
5. **Mr. Ch. Lokeshwar Reddy**, Assoc. Prof. of EEE Dept. attended a “Research Methodology Course “,conducted by JNTUH from 16th - 21st December, 2013.
6. **Mr. P.Rajesh Kumar**, Associate Professor of EEE Department attended workshop on “Engineering Research methodologies 17<sup>th</sup> ,18<sup>th</sup> Jan 2014 in CVRCE
7. **Mr. Rajib Kumar Kar** , Sr. Assistant Professor of EEE Department attended workshop on “Engineering Research methodologies 17<sup>th</sup> ,18<sup>th</sup> Jan 2014 in CVRCE
8. **Ms. G. Sree lakshmi**, Assoc. Prof. of EEE Dept. attended workshop on “Engineering Research methodologies 17<sup>th</sup> ,18<sup>th</sup> Jan 2014 in CVRCE
9. **Mr. Rajib Kumar Kar** , Sr. Assistant Professor of EEE Department attended Faculty development programme “Recent trend in automation & control” from 11<sup>th</sup> to 22<sup>nd</sup> Nov 2013
10. **Mr. P.Rajesh Kumar**, Associate Professor of EEE Department attended one day workshop on “Energy conservation & Management “ 20<sup>th</sup> December 2013 in JNTU Hyderabad

**11. Mr. Ch. Lokeshwar Reddy** , Attended one week Faculty Development program on “**Advances in Power Electronics and Drives**” organized by Department EEE, College of Engineering, Osmania University from 12<sup>th</sup> May to 17<sup>th</sup> May 2014.

### 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- Expert panel member of AICTE, UPSC, Executive council member of JNTUH
- Students :V. Harini, (12B81A0227) selected for internship at IIT Bombay during the summer of 2014

### 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
01	Advances in power electronics for power generation & power system operation	09.12.2009-11.12.2009	CVR college of engineering
02	Recent solutions of power quality problems	12.03.2010-13.03.2010	CVR college of engineering
03	Power electronics & drives	30.12.2010-31.12.2010	CVR college of engineering
04	Advances in electrical engineering	21.10.2011-23.10.2011	CVR college of engineering
05	Recent trends in power electronics & power systems	03-12-14 to 05-12-14	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
2010-2014	Admissions are filled through EAMCET	78	28	92.86%	93.33%
2009-2013		79	36	95.18%	100%
2008-2012		69	37	90.79%	90.24%



Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2007-2011	counseling, A.P	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
2010-2012	Admissions are filled through GATE and PG CET	14	4	100%	100%
2011-2013		11	5	100%	100%
2012-2014		11	6	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	-	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	GATE 5000
6	09B81A02A7	Ms. Ch. Sruthi Reddy	897 GATE
7	09B81A0243	Mr. B. Kiran kumar	2030 GATE

8	10B81A0218	Mr. Eshwar Reddy Pasula	316 GRE score
9	10B81A0219	Ms. Gayathri Nagavali	304 GRE score
10	10B81A0223	Lave Hemanth	302 GRE score
11	10B81A0229	Kanuganti karthik reddy	317 GRE score
12	10B81A0212	Chetan reddy	290 GRE score
13	10B81A0215	dileep kishan.U	298 GRE score
14	10B81A0251	G.Navya	298 GRE score
15	10B81A0252	Nikhil Jonnalagadda	311 GRE score
16	10B81A0253	S.Nithish Bharadwaj	300 GRE score
17	10B81A0209	chandrakanth reddy	298 GRE score
18	10B81A0211	charishma reddy.T	296 GRE score

#### 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

Mrs. G. Sree Lakshmi, Associate Professor EEE Department, submitted Ph.D Thesis in September, 2014.

The following teaching faculty have registered for Ph.D. and successfully completed pre-Ph.D. exam.

S. No	Faculty name	University
1	N. Bhargavi	Osmania University
2	Kalyan Chakravarthy	Osmania University
3	Lokeshwar Reddy	JNTUH

**27. Present details about infrastructural facilities**

**a) Library**

- In the main library, the EEE department has 6811 volumes and 890 titles.
- The department library has 402 volumes, 264 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                      Vainavi                      BSNL

Available bandwidth:                      25Mbps                      15Mbps                      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 for whole campus

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: 02

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 manuals are given to all the students

**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 Received)	2013-14 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)	2009-10 (Availed)
I Yr.	99	101	115	74	48	56
II Yr.	99	114	72	48	56	49
III Yr.	114	73	50	57	43	41
IV Yr.	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 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)	2009-10 (Availed)
1	M. Tech.	I Yr.	12	5	10	0	6	8
	( VLSI Design )	II Yr.	5	10	10	5	6	9
2	M. Tech.	I Yr.	6	7	8	0	0	0
	( WMC )	II Yr.	7	8	5	0	0	0
3	M. Tech.	I Yr.	4	3	7	0	2	10
	( E.S )	II Yr.	3	7	4	2	9	0

**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 4<sup>th</sup> week of commencement of semester and at 15<sup>th</sup> 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 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.

**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 Steel Plant)
2	08B81A0256	Nikhil Bajjuri	RESEARCH CENTRE IMARAT Research & Development Organization
3	08B81A0282	Bingi Sai Goutham	L&T Technologies Services Limited
4	09B81A0232	G. Harish	HAL, Bengaluru
5	09B81A02A8	Syamanth Naga Vivek Bezavada	Cognizant Technology solutions Private Limited
6	09B81A0245	R. Madhu Kumar	Cadence, Bengaluru
7	10B81A0213	K. Dharma Teja	Virtusa, Hyderabad
8	10B81A0252	Nikhil Jonnalagadda	TATA consultancy services Limited
9	10B81A0253	S. Nitish	Cognizant Technology solutions Private Ltd.
10	10B81A0299	Siddarth Konkimalla	INTO University of South Florida
11	10B81A02A1	P Sneha Priya	HSBC software Development(india) Private Limited
12	10B81A02B7	B. Vijay	Amazon Development Center India Pvt Ltd

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

The guest lecturers/workshops for the academic year 2013-14 are as follows:

1. A lecture on “Signal Processing Applications in Power Electronics and Control Systems,” by Mr. Chamarthi Srinivas CEO , CYME Solutions pvt. Ltd. for II & III year EEE students on 9<sup>th</sup> Jan 2014.
2. A lecture on “Smart Grid” by Mr. Mahesh , Executive Engineer Power grid Corporation, India for II EEE students on 17<sup>th</sup> Feb 2014.

3. A lecture on “Power Electronics and Applications” for II,III,IV EEE Students by Dr.V.T.Soma Sekhar, Professor, NIT Warangal on 5<sup>th</sup> Feb 2014.
4. A workshop on “PCB making & circuit design” by Insignia Labs, Bengaluru for II EEE students on 19<sup>th</sup> Feb 2014.
5. A workshop on “Embedded systems Design” by Insignia Labs, Bengaluru during 3-5 March, 2014
6. A lecture on “Role of STATCOM in Power systems” by S.Eswar rao, Sr.Manager BHEL R&D on 22<sup>nd</sup> Sept. 2014. in commemoration of Michael Faraday.
7. A lecture on " In to The Future " for IIInd III rd year students by K.Phani Vasista, M.S in Boston University.
8. A lecture on “Renewable energy potential in India,” for III and IV year students by Prof. K. Bangara Raju, HOD, EEE of TKR College of Engineering.

#### **Industrial Visits:**

- III EEE- B students visited **CPRI**, Uppal, Hyderabad on 27.12.2013.
- Students of III year EEE visited **Nagarjuna Sagar power house**, Nagarjuna Sagar on 25<sup>th</sup> Jan 2014 (EEE III A) and on 1<sup>st</sup> Feb 2014 (EEE III B) as an Industrial Visit,
- Students of III year EEE visited **KTPS, Kothagudem** as an Industrial Visit during 21<sup>st</sup> and 22<sup>nd</sup> March 2014. (both A & B)
- Students of II year EEE visited **KRK power industries**, R&D and Manufacturing Unit of Transformers as an industrial visit on 21<sup>st</sup> feb 2014 and 25<sup>th</sup> April 2014 in Two batches.
- III EEE- A students visited **Mamidipally 400Kv** substation on 11.09.2014.
- III EEE- B and IV EEE-A students visited **CPRI**, Uppal,Hyderabad on 12.09.2014.
- II EEE A and B students visited **BHEL**, Hyderabad on 31.10.2014.

#### **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 <sup>st</sup> prize Dattatreya Naik III year & Anjana III year 2 <sup>nd</sup> prize Shruthi Reddy III year & Lavanya III year
2.	Technical Paper Presentation at National level Student Technical Symposium, ACE Engineering College, Hyderabad.	5 <sup>th</sup> & 6 <sup>th</sup> March, 2012	P.Ratnakar Babu III Year Won 2 <sup>nd</sup> Prize
3.	Presented paper on the topic name “Wireless Power Transmission” in CIENCIA-2K12(National level Technical Symposium ) at C.V.R college of Engineering.	16 <sup>th</sup> and 17 <sup>th</sup> of march 2012	A.Guna Shekar Reddy, P.Mallikarjuna, P.V.L.Manaswitha of II 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 <sup>th</sup> and 17 <sup>th</sup> of march 2012	C.Sruthi
5.	International Conference on Electrical Engineering and Computer Science (ICEECS), Goa, India	May, 2012	P.Deepak Reddy Won 1 <sup>st</sup> Prize K.Bala Subramanyam IV Yr



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 <sup>th</sup> -8 <sup>th</sup> 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 <sup>th</sup> and 15 <sup>th</sup> 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 <sup>th</sup> and 17 <sup>th</sup> 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 CVR College of Engineering.	16 <sup>th</sup> and 17 <sup>th</sup> 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 <sup>th</sup> and 17 <sup>th</sup> 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 <sup>st</sup> and 2 <sup>nd</sup> 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 <sup>st</sup> and 2 <sup>nd</sup> 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 <sup>st</sup> and 2 <sup>nd</sup> of March 2013
5	11B81A0244	P.M. Samyuktha	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 <sup>st</sup> and 2 <sup>nd</sup> of March 2013
6	11B81A0243	Y.Mounika	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 <sup>st</sup> and 2 <sup>nd</sup> of March 2013

7	1181A0249	B. Poojitha	Participated in Loophole Ethical Hacking workshop Conducted by Kyrion Digital Securities (p) Ltd , at C.V.R college of Engineering on 1 <sup>st</sup> and 2 <sup>nd</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> of March 2013
15	10B81A02A9	G.Suman Prathyusha Preetham	Participated in the one day workshop on Embedded Linux Device Drives held on 31 <sup>st</sup> 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 <sup>nd</sup> 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

<b>Guest Lectures conducted by the department for the students in 2012-2013:</b>					
<b>S.No.</b>	<b>Event</b>	<b>Topic</b>	<b>Month-year</b>	<b>No. of participants</b>	<b>Remarks</b>
1	Guest Lecture under ISTE Students Chapter	Recent Advances in Electrical Engineering	26 <sup>th</sup> Oct.,2012	Faculty,III and IV year students	Dr. N. K Kishore, Prof,EEE,IIT Kharagpur.
2	Guest Lecture under ISTE Students Chapter	Recent Advances in Power Systems	5 <sup>th</sup> March,2013	Faculty,III and IV year students	Prof. K. B. Raju Ex.AGM BHEL R & D
3	Guest Lecture under ISTE Students Chapter	Energy and Environmental problems facing third world and solutions	6 <sup>th</sup> March,2013	Faculty,III and IV year students	Dr. D. P Kothari Retd. Professor, IIT Delhi, Ex.V.V. VIT Vellore

**Participation of students in internship in 2012-13:**

<b>S.No.</b>	<b>Roll Number</b>	<b>Name of Student</b>	<b>Details</b>
1	11B81A02B5	k. Vishal	Internship done in Nagarjuna sagar power House ,APGENCO During period 21 <sup>st</sup> may 2013 to 3 <sup>rd</sup> june 2013.
2	11B81A0296	c. Sruthi	Internship done in KTPS (Stage –VI) ,APGENCO During period 13 <sup>th</sup> june to 28 <sup>th</sup> june 2013.
3	10B81A02B7	B. Vijay	Internship done in “Central Power Training Institute” APCPDCL, Hyderabad. During period 13 <sup>th</sup> august and 14 <sup>th</sup> august
4	11B81A02B1	V.V.S. kartheek	Internship done in “BHEL”, Hyderabad. During period 2 <sup>nd</sup> 342ecember to 17 <sup>th</sup> December 2013
5	11B81A0221	P. Durga	Internship done in “BHEL”, Hyderabad. During period 2 <sup>nd</sup> 342ecember to 17 <sup>th</sup> December 2013
6	12B81A0227	V. Harini	Fellowship to work in IIT MUMBAI has been approved for a future date during period of two months(may and june).

**Participation of Students conferences in 2012-2013**

S.No.	Name of the Event	Title	Place	Month-year	No. of participant	Winner
1.	Paper Contest	“Auto dirt sensor and cleaner in overhead tank”	International conference on Advanced Research in Renewable Energy and Power system(ICARREPS -2013) Marudhar Engg. College	7 <sup>th</sup> and 8 <sup>th</sup> of August 2013.	50	K. Vishal, 11B81A02B 5 Participated certificate
2.	Paper Contest	“Microlevel non-conventional Electricity Generation”	IEEE Gobal Humanitarian Technology Conference –South Asia Satellite2013 in Thiruvananthapuram	23 <sup>rd</sup> and 24 <sup>th</sup> of August 2013.	60	B. Nikhitha Nanda 11B81A0246 Participated certificate
3.	Paper Contest	Hybrid Energy	POTENZIA’13 (a National level Technical symposium) at M.G.I.T	27 <sup>th</sup> and 28 <sup>th</sup> of September 2013.	45	P.Durga 11B81A0221 Participated certificate
4.	Paper Contest	“Prepaid Energy Meters based on MicroControllers”	ATMOS’13 in BITS Pilani	October 5 <sup>th</sup> 2013	50	B.UmaJeevani 12B81A02A 6 M.shirisha 12B81A0279 Participated certificate
5.	Paper Contest		PRAGNYA’13 (a National level Technical symposium) at Gokaraju Rangaraju institute of Engg. and Technology	4 <sup>th</sup> and 5 <sup>th</sup> of October 2013	30	P. Durga 11B81A0221 Presented paper and won Second prize
6.	Paper Contest	“Modern power semiconductors devices”	MEDHAVESH’14 (a National level Technical symposium) at Dr.B.V.Raju IOT in (Hyd campus)	3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014	35	A.Gunasekar Reddy 11B81A022 Mallikarjuna 11B81A0236 Participated certificate

7.	Paper Contest	“Resonant converters”	MEDHAVESH’ 14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus)	3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014	35	G. Karthik 11B81A0230 K. Kedarnath 11B81A0232 Participated certificate
8.	Paper Contest	“Islanding of inverters”	MEDHAVESH’ 14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus)	3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014	35	D. Maninder 11B81A0238 K. Prashanth 11B81A0250 Participated certificate
9.	Paper Contest		SPARDHAA’ 14 (a National level Technical symposium) at Sreenidhi Institute of Science and Technology	25 <sup>th</sup> and 26 <sup>th</sup> of January 2014		C. Archana Kumari 12B81A0215 Presented paper and won first prize
10.	Paper Contest	“A study on the viability of large scale smart grid establishment through case studies of successful ventures”	National conference on Emerging technologies in EEE (ETE_2014) under TEQIP II ,SVECW Bhimavaram	7 <sup>th</sup> and 8 <sup>th</sup> of February 2014		V. Harini 12B81A0227 Participated certificate
11.	Paper Contest		ANUSHTHANA’ 14 at ACE Engineering	14 <sup>th</sup> and 15 <sup>th</sup> of March 2014		R. Kinnera 12B81A0235 P.Nancy Samyukta 12B81A024
12.	Paper Contest	“Piezo Electric Roads”	Adastra’ 14(a National level Technical symposium), Sreenidhi Institute of Science & Tech.	14 <sup>th</sup> to 16 <sup>th</sup> of March 2014		Y.SaiNath Reddy 12B810275 Participated certificate

13.	Event	“ELAN14”	IIT Hyderabad	From 31 <sup>st</sup> January 2014 to 2 <sup>nd</sup> February 2014.		Y.SainathReddy 12B81A0275 Participated & Secured 2 <sup>nd</sup> Position
14.	AAGAMA'14	“Circuit Trix”	ANURAG Group of Institutions	7 <sup>th</sup> and 18 <sup>th</sup> of March 2014		B. Harish Kumar Reddy 12B81A0228 S. Karthik 12B81A0233 Participated certificate
15.	AAGAMA'1	“Invasion”	ANURAG Group of Institutions	7 <sup>th</sup> and 18 <sup>th</sup> of March 2014		B. Harish Kumar Reddy 12B81A0228 S. Karthik 12B81A0233 Participated certificate
16.	AAGAMA'1	“Tech Quiz”	ANURAG Group of Institutions	7 <sup>th</sup> and 18 <sup>th</sup> of March 2014		B. Harish Kumar Reddy 12B81A0228 S. Karthik 12B81A0233 Participated certificate
17.	Event	“ACUMEN CIVIL'14”		4 <sup>th</sup> January 2014		B.UmaJeevani 12B81A02A6
18.	Internship		Nagarjuna sagar power House ,APGENCO	21 <sup>st</sup> may 2013 to 3 <sup>rd</sup> june 2013.		K. Vishal 11B81A02B5
19.	Internship		KTPS (Stage –VI) ,APGENCO	13 <sup>th</sup> to 28 <sup>th</sup> june 2013		C. Sruthi 11B81A0296
20.			“Central Power Training Institute” APCPDCL, Hyderabad	13 <sup>th</sup> and 14 <sup>th</sup> august, 2013		B. Vijay 10B81A02B7
21.	Internship		“BHEL”, Hyderabad	2 <sup>nd</sup> to 17 <sup>th</sup> December 2013		V.V. Karthik 11B81A02B1 P. Durga 11B81A0221

22.	Fellowship		IIT MUMBAI	Has been approved for a future date during period of two months May-June		V. Harini 12B81A0227
23.	Workshop	“Image processing and microcontroller programming”	IIT Hyderabad	14 <sup>th</sup> & 15 <sup>th</sup> September 2013.		B.UmaJeevani 12B81A02A6 M.Shirisha 12B81A0279 P.SaiSnehith Reddy 12B81A0274

**Participation of students in conferences in 2013-14:**

Sno	Roll number	Name of student	Detail
1	11B81A02B5	k. Vishal	Presented paper on the topic ” Auto dirt sensor and cleaner in overhead tank” in International conference on Advanced Research in Renewable Energy and Power system(ICARREPS-2013) at Marudhar Engineering college held on 7 <sup>th</sup> and 8 <sup>th</sup> of August 2013.
2	11B81A0246	B. Nikhitha Nanda	Presented paper on the topic” Microlevel non-conventional Electricity Generation” at IEEE Gopal Humanitarian Technology CConference –South Asia Satellite2013 in Thiruvananthapuram held on 23 <sup>rd</sup> and 24 <sup>th</sup> of August 2013.
3	11B81A0221	P. Durga	Presented paper on the topic” Hybrid Energy” in POTENZIA’13 (a National level Technical symposium) at M.G.I.T held on 27 <sup>th</sup> and 28 <sup>th</sup> of September 2013.
4	12B81A02A6	B.UmaJeevani	Presented a paper in Electronics paper presentation in event at ATMOS’13 in BITS Pilani on October 5 <sup>th</sup> 2013 on on topic of “Prepaid Energy Meters based on MicroControllers”
5	12B81A0279	M.shirisha	Presented a paper in Electronics paper presentation in event at ATMOS’13 in BITS Pilani on October 5 <sup>th</sup> 2013 on on topic of “Prepaid Energy Meters based on MicroControllers”
6	11B81A0221	P. Durga	Presented paper and won Second prize in PRAGNYA’13 (a National level Technical symposium) at Gokaraju Rangaraju institute of Engineering and Technology held on 4 <sup>th</sup> and 5 <sup>th</sup> of October 2013.

7	11B81A0223	A.Guna shekar reddy	Presented paper on the topic "Modern power semiconductors devices" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014.
8	11B81A0230	G. Karthik	Presented paper on the topic "Resonant converters" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014.
9	11B81A0232	K. Kedarnath	Presented paper on the topic "Resonant converters" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of Jan-14.
10	11B81A0236	P. Mallikarjuna	Presented paper on the topic "Modern power semiconductors devices" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014.
11	11B81A0238	D. Maninder	Presented paper on the topic "Islanding of inverters" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of Jan-14.
12	11B81A0250	K. Prashanth	Presented paper on the topic "Islanding of inverters" in MEDHAVESH'14 (a National level Technical symposium) at Dr.B.V.Raju Institute of Technology (Hyderabad campus) held on 3 <sup>rd</sup> and 4 <sup>th</sup> of January 2014.
13	12B81A0215	C.Archana Kumari	Presented paper and won first prize in SPARDHAA'14 (a National level Technical symposium) at Sreenidhi Institute of Science and Technology held on 25 <sup>th</sup> and 26 <sup>th</sup> of January 2014.
14	12B81A0227	V. Harini	Presented paper titled "A study o the viability of large scale smart grid establishment through case studies of successful ventures" at National conference on Emerging technologies in EEE (ETE_2014) under TEQIP II ,SVECW Bhimavaram held on 7 <sup>th</sup> and 8 <sup>th</sup> of February 2014.
15	12B81A0235	R. Kinnera	Presented paper in ANUSHTHANA'14 at ACE Engineering college, held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014.
16	12B81A0244	P.Nancy Samyukta	Presented paper in ANUSHTHANA'14 at ACE Engineering college, held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014.
17	12B81A0243	Y. Mounika	Presented paper and won Second Prize in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.



18	12B81A0227	V. Harini	Presented paper and won second prize in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
19	12B81A0236	Krishna chaitanya	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
20	12B81A0244	P. N. samyuktha	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
21	12B81A0235	R. kinnera	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
22	12B81A0206	J. Aditya	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
23	12B81A0212	R. Anusha	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
24	12B81A0222	Dharanidhar	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
25	12B81A0256	t. Pravallika	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
26	11B81A02B5	K. Vishal	Organised paper and poster presentation events (EEE) in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
27	11B81A0296	C. Sruthi	Organised paper and poster presentation events (EEE) in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering.
28	12B81A02A6	B.UmaJeevani	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering on topic of "Prepaid Energy Meters based on MicroControllers"
29	12B81A0279	M.Shirisha	Presented paper in CIENCIA'14(a National level Technical symposium) held on 14 <sup>th</sup> and 15 <sup>th</sup> of March 2014 at C.V.R college of Engineering on topic of "Prepaid Energy Meters based on MicroControllers"
30	12B810275	Y.SaiNath Reddy	Presented paper in Adastra'14(a National level Technical symposium) held on 14 <sup>th</sup> to 16 <sup>th</sup> of March 2014 at Sreenidhi Institute of science and technology on topic of "Piezo Electric Roads"

**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.

**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.

- A blood donation camp in the college campus was organized on 16-4-2010 in association with Red Cross society, Vidyanagar. 243 students and staff voluntarily donated blood.
- A blood donation camp in the college campus was organized on 28-3-2011 in association with Red Cross society, Vidyanagar. 179 students and staff donated blood.
- A special camp at Mangalpalli (v) during 2<sup>nd</sup> december 2011 to 9<sup>th</sup> 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 6<sup>th</sup> 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 6<sup>th</sup> 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 2<sup>nd</sup> Jan 2014. 25 trainers from B.Tech 3<sup>rd</sup> year, participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.

- 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., 14<sup>th</sup> 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 14<sup>th</sup> 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.



#### List of activities conducted in the camp:

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 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> 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

#### 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-I<sup>st</sup> Semester**

S. No.	Title	No of periods		Additional topics to meet PEOs
		Theory	Tutorial/ Practical	
1.	Electro Magnetic Fields	4	1	Uniform Plane waves
2.	Electrical Machines-I	4	1	Simple Mathematical Modelling Of DC Machines
3	Fluid Mechanics & Hydraulic Machinery Lab	-	3	Bernouli's Theorem

**B.Tech II-2<sup>nd</sup> Semester**

S. No.	Title	No of periods		Additional topics to meet PEOs
		Theory	Tutorial/ Practical	
1.	Power Systems -I	4	1	Mechanical Design Aspects of Transmission & Distribution Lines
2.	Electrical Machines-II	4	1	Advanced Electrical Machines like Induction Generator
3.	Electrical Machines Lab-I		3	Brake Test on DC Series Motor

**B.Tech III-I<sup>st</sup> Semester**

Sl. No.	Title	No of periods		Additional topics to meet PEOs
		Theory	Tutorial/Practical	
1.	Electrical Machines-III	4	1	Special Machines like SRM, PMSM, BLDC etc.
2.	Power Electronics	4	1	High frequency Switching devices.
3.	Electrical Machines Lab-II		3	1. Load test on Single Phase transformer 2. Separation of core losses of a Single Phase transformer

**B.Tech III-2<sup>nd</sup> Semester**

Sl. No.	Title	No of periods		Additional topics to meet PEOs
		Theory	Tutorial	
1.	Switchgear and Protection	4	1	Protection using Microprocessors.
2.	Instrumentation	4	1	Measurement of R, C, L using bridge circuits. RTD & LVDT characteristics, Various transducers
3.	Power Electronics & Simulation Lab	-	3	Basic simulation circuits using MATLAB

**B.Tech IV-1<sup>st</sup> Semester**

Sl. No.	Title	No of periods		Additional topics to meet PEOs
		Theory	Tutorial	
1.	Power Semiconductor Drives	4	1	Basic concepts of Multilevel Inverters
2.	Electrical Distribution Systems	4	1	Distribution system Reliability
3.	Electrical Measurements Lab	-	3	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 6 year from 2014-15 to 2019-2020

**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 everyday SMS to the parents 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 Science Engg.	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
12EE205CV	Fundamentals 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
12EC256CV	Control Systems	Electronics And Communication Engineering	II-Year,Sem-2
12EC281CV	Electronic Circuits Analysis Lab.	ECE	II-Yr,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.	H&s	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( <b>Elective-1</b> )	Computer science Engineering	III-Year,Sem-2
12MT381CV	Quantitative Ability Lab.	Humanities and science	III-Year,Sem-2
12EC384CV	Microprocessors & Microcontrollers Lab.	Electronics And Communication Engineering	III-Year,Sem-2
12EG381CV	Advanced English Communication Skills Lab.	Humanities and science	III-Year,Sem-2
12EC402CV	VLSI Design	Electronics And Communication Engineering	IV-Year,Sem-1
12EC40GCV	Computer Networks( <b>Elective-2</b> )	Electronics And Communication Engineering	IV-Year,Sem-1
12EC40DCV	Embedded Systems Design( <b>Elective-2</b> )	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( <b>Interdisciplinary Elective</b> )	CIVIL,ME	IV-Year,Sem-1
12CS40ACV	Object Oriented Programming through Java( <b>Interdisciplinary Elective</b> )	Computer science Engineering	IV-Year,Sem-1
12MG40AC V	Entrepreneurship( <b>Interdisciplinary Elective</b> )	Humanities and science	IV-Year,Sem-1

#### 4. Annual/ semester/choice based credit system :

All the four years are semester based credit system

**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
12EI403CV	Instrumentation	3	1		4	3	IV EEE
12EI401CV	Measurement & Control	4	-		4	4	IV ME
12EI431CV	Measurement & Control Systems Lab.	-	-	3	3	2	IV ME
12EI405CV	Robotics & Automation	4	1		5	4	IV ECE
12EI408/453/3	Reliability Engineering	3			3	3	IV ECE

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

Designation	2014-15		2013-14		2012-13		2011-12	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
Professor	2	2	2	2	2	2	2	2
Asso. Prof.	3	3	3	3	3	3	3	3
Asst. Prof.	7	7	7	7	7	7	7	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 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	Controls Systems	11	-
4.Mr.B.Satish	M.Tech, (Ph.D.) JNTUH,	Associate Professor	Digital systems	11	-

Name	Qualification	Designation	Specialization	No. of Years of Experience	Ph.D. guided
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 & Controls 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 & Controls 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
AdmN. 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)**

- i) Journal of Computer Applications(IJCA): 2.52
- ii) International International Journal Of Research in Engineering and Technology (IJRET): 2.375
- iii) International Journal of Science and Engineering Applications: 0.256
- iv) Journal of Health Management : 1.642
- v) ASCI Journal of Management:
- vi) International Journal of Computer Technology & Applications (IJCTA): 2.804
- vii) International Journal of Research in Electronics and Communication Engineering(IJRECE): 2.677
- viii) International Journal on Computer Science and Engineering (IJCSE): 1.251
- ix) International Journal of Engineering Science and Research (IJESR): 2.08
- x) 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				
		2014-15	2013-14	2012-13	2011-12	2010-11
1.Dr.M. S.Bhat	Professor & Head	15	14	12	15	15
2. Professor. S.Narayana	Professor	6	4	1	0	0
3.Ms.S.Harivardhagini	Assoc.Prof	9	8	6	4	2
4.N.Akshay	Assoc. Prof.	8	6	5	4	4
5.Mr.B.Satish	Assoc. Prof	1	1	1	1	1
6.Mr.O.Venkata Krishna	Assoc. Prof	6	6	6	6	6
7.Mr.D.Satish Kumar	Asst. Prof.	1	1	Nil	Nil	Nil
8.Ms.V.Sreelatha Reddy	Asst. Prof.	1	1	1	1	1
9.Mr.G.Venkateswarlu	Asst. Prof.	4	2	0	0	0
10.Mr.P.Choudesh Varma	Asst. Prof.	01	01	Nil	Nil	Nil
11. Mr. P.Venkata Gopi Kumar	Asst. Prof.	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:**

- New faculty- two week orientation and communication skills programme
- 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 college programmes.
- 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.

**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		
			2013-14	2012-13	2011-12
1	Dr.M. S.Bhat	Professor & Head	1	1	2
2	Professor. S.Narayana	Professor	2	2	3
3	Ms.S.Harivardhagini	Assoc.Prof		1	2
4	N.Akshay	Assoc.Prof		2	1

5	Mr.B.Satish	Assoc.Prof			1
6	Mr.O.Venkata Krishna	Assoc.Prof	1	2	1
7	Mr.D.Satish Kumar	Asst. Prof.	1		1
8	Mr. T. Santhosh Kumar	Asst. Prof.			2
9	Ms. Jythirmai Joshi	Asst. Prof.			2
10	Ms. R. Prameela Devi	Asst. Prof.			2
11	Ms. A. Usha Sri	Asst. Prof.	3	1	1
12	Ms. Sampurna lakshi	Asst. Prof.		1	1
13	Ms.V.Sreelatha Reddy	Asst. Prof.	3		
14	Mr.G.Venkateswarlu	Asst. Prof.	1		
15	Mr.P.Choudesh Varma	Asst. Prof.	1		
16	Ms. Y. Divya Reddy	Asst. Prof.	1		
17	Mr. P.Venkata Gopi Kumar	Asst. Prof.	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.No.	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. Has been President of IETE, India during two consecutive terms i.e. 2006- 2007 & 2007 – 2008. Has been Chairman of IETE, Hyderabad Centre during two consecutive terms i.e. 1993-1994 & 1994 – 1995.	2013

		Endowment lecture in honour 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	<p>1. Appointed as a member of scientific advisory committee of National Institute Of Mentally Handicapped (Govt. of India), Hyderabad.</p> <p>2. Successfully Guided 18 Research Scholars resulting in the award of Ph. D. from JNTU, O.U.</p> <p>3. Successfully Guided 10 Research Scholars resulting in the award of M. Phil.</p> <p>4. Two Research Scholars under the guidance of Dr. M.S. Bhat have submitted Ph. D. thesis to JNTUH and awaiting evaluation.</p> <p>5. Had secured and completed successfully AICTE projects such as MODROB, TAPTEC &amp; RESEARCH and also from UGC.</p>	May 2014

Awards / recognitions received at the national and international level by Students

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 <sup>th</sup> and 12 <sup>th</sup> ,2014

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

(2013-2014)

S. No.	Society / Chapter	Event	Date
1	ISTE	Android Mobile Controlled Robot	21 <sup>st</sup> and 22 <sup>nd</sup> Sep. 2013
2	ISTE	Robotics Workshop	27 <sup>th</sup> Sep. 2013



**(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

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 <sup>st</sup> mar 2013	CVR College of Engg
4	IEEE	Workshop on “Linux System programming”	23 <sup>rd</sup> ,24 <sup>th</sup> ,30 <sup>th</sup> march &6 <sup>th</sup> April 2013	CVR College of Engg
5	IEEE	Workshop on “ASIC Physical Design using CADENCE TOOLS”	Feb-March 2013	CVR College of Engg

**(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

S. No.	Society / Chapter	Event	Date	Source of Funding
1	IETE	ASIC Design Verification	13 <sup>th</sup> Nov 2011	CVR College of Engg.
2	IUCEE	Innovation Club	23 <sup>rd</sup> to 30 <sup>th</sup> 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	-----	-----

Name of the Course (refer question no. 2)	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
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 EAMCET counseling	38	22	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(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			
	2013-14	2012-13	2011-12	2010-11
GATE	5	6	1	1
GRE	9	14	6	14
CAT	1	2		2

## 24. Student progression

Student progression	Percentage against enrolled			
	2013-14	2012-13	2011-12	2010-11
UG to PG	30%	40%	12%	30%
PG to M.Phil.	-----	-----	-----	-----
PG to Ph.D.	-----	-----	-----	-----
Ph.D. to Post-Doctoral	----	-----	-----	-----
Employed				
• Campus selection	46%	29%	54%	50%
• Other than campus recruitment				
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.
  - Aailed study leave twice with salary
  - First from November 15<sup>th</sup> 2012 to June 17<sup>th</sup> 2013.
  - Second from November, 25<sup>th</sup>, 2013 to June, 30th, 2014.
  - 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) Library:

Department library of EIE has 270 books with seating facility for the reference. The department library measures 100 sq.m. Department seminar hall is available.

## b) 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	Available bandwidth	Access Speed
Apollo	25 Mbps	2 Mbps (max) for individual
Vainavi	15 Mbps	
BSNL	10 Mbps	

- 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

- c) 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.
- d) Class rooms with ICT facility:  
Each class has over head projector and LCD projector is available in class room & department.
- e) 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
- f) Research laboratories: NIL

**27. Number of students of the department getting financial assistance from College.**

Course	Course Year	No. of students availed Financial Assistance from State Govt.				
		2014-15 (Yet to be Received)	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**

- **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.

**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.

**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

**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 <sup>th</sup> Nov 2011
2	IUCEE	Innovation Club	23 <sup>rd</sup> to 30 <sup>th</sup> 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	CONVERGENCE2K12	VNRVJIT	2012
6	D. Dinesh	10B81A1012	Robotics	CONVERGENCE2K12	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	CONVERGENCE2K12	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	CONVERGENCE2K12	VNRVJIT	2012
18	Mounika	10B81A1022	Fibre Optic Sensors	CONVERGENCE2K12	VNRVJIT	2012
19	K. Vennela	10B81A1054	Robotic Sensors	CONVERGENCE2K12	VNRVJIT	2012
20	P. Akshay Kumar	09B81A1004	Biometrics in Automobile Security	CONVERGENCE2K12	VNRVJIT	2012
21	M.Sirisha	09B81A1041	Vision Based Gesture Recognition	CONVERGENCE2K12	VNRVJIT	2012
22	M.Sirisha	09B81A1041	Poster presentation	UDAAN-12	SREENIDHI	2012
23	A.Pradeep Kumar	09B81A1024	Bluetooth	CONVERGENCE2K12	VNRVJIT	2012
24	Karun Bojja	09B81A1056	Paper Presentation	UDAAN-12	SREENIDHI	2012
25	Kalyan Bojja	09B81A1033	Paper Presentation	CONVERGENCE2K12	VNRVJIT	2012
26	Karun Bojja	09B81A1056	Paper Presentation	CONVERGENCE2K12	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 <sup>st</sup> mar 2013
4	IEEE	Workshop on “Linux System programming”	23 <sup>rd</sup> , 24 <sup>th</sup> , 30 <sup>th</sup> march & 6 <sup>th</sup> 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	Jayasreee Sahu	11B81A1018	Augmented reality	CBIT	March 19&20 <sup>th</sup> 2013

4	K.Lakshmi Sravanthi	11B81A1023	Augmented reality	CBIT	March 19&20 <sup>th</sup> 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 <sup>th</sup> 2013
8	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	BVRIT	March 14&15 <sup>th</sup> 2013
9	Yeleswarapu Sriya	11B81A1046	Piezo Electric Nano Generators to power portable devices	CBIT	March 19&20 <sup>th</sup> 2013
10	Sruthi Pappala	11B81A1048	Piezo Electric Nano Generators to power portable devices	CBIT	March 19&20 <sup>th</sup> 2013
11	Kajal Thakur	11B81A1019	Nano Technology Under Stream carbon Nano tubes	GRIET	March 19&20 <sup>th</sup> 2013
12	Hemanth Kocherlakota	11B81A1017	Nano Technology Under Stream carbon Nano tubes	GRIET	March 19&20 <sup>th</sup> 2013

(2013-2014)

S. No.	Society / chapter	Event	Date
1	ISTE	Android mobile controlled robot	21 <sup>st</sup> and 22 <sup>nd</sup> september 2013
2	ISTE	Robotics workshop	27 <sup>th</sup> september 2013

The following are the contribution in technical festival held in the college called CIENCIA  
2013

Table 4.6: CIENCIA Programmes Year-wise

(2011-12)

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	B.Abhitej a	11B81A1027	Bluetooth	Paper presentation	CINCIA'2K12
2	V. Satvik	11B81A1042	Bluetooth	Paper presentation	CINCIA'2K12
3	S. Sarala	10B81A1040	Video Surveillance Systems	Paper presentation	CIENCIA2K12



**(2012-2013)**

S. No.	Name	Roll No.	Description	Event	Date/Remarks
1	Jayasreee 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 <sup>nd</sup> 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	12B81A102 2	Inside Touch Screen	Paper presentation	CIENCIA'2K1 4
11	Vasudev	12B81A105 2	Control and Instrumentatio n of Power plants	Paper Presentation	CIENCIA'2K1 4 14 <sup>th</sup> ,15 <sup>th</sup> march 2014
12	D.Sai Asrith Reddy	12B81A103 1	Control and Instrumentatio n of Power plants	Paper Presentation	CIENCIA'2K1 4 14 <sup>th</sup> ,15 <sup>th</sup> march 2014
13	A,Venkates h	12B81A105 4	Ethical Hacking	Technical Event	CIENCIA'2K1 4
14	K.Sai Chandra	12B81A103 9	Turbo IIT	Workshop	CIENCIA'2K1 4 14 <sup>th</sup> ,15 <sup>th</sup> march 2014
15	K.Sai Chandra	12B81A103 9	Android controlled robotics	workshop	CVRCE,ISTE Chapter
16	M.Sai Shushma	12B81A103 8	Robogravity	workshop	CIENCIA'2K1 4
17	M.Sai Shushma	12B81A103 8	WIE Inauguration	workshop	CVRCE,7 <sup>th</sup> march,2014
18	M.S. Sushma	12B81A103 8	IEEE Techfest	workshop	IEEE Techfest Sep 28 <sup>th</sup> ,2013
19	A.V. Shravani	12B81A105 3	Robogravity	workshop	CIENCIA'2K1 4
20	A.V. Shravani	12B81A105 3	WIE Inauguration	workshop	CVRCE,7 <sup>th</sup> march,2014
21	A.V. Shravani	12B81A105 3	Cognizence	workshop	IEEE Techfest Sep 28 <sup>th</sup> ,2013
22	A.V. Shravani	12B81A105 3	Instensors	Paper presentation	CIENCIA'2K1 4
23	G.Sowmya	12B81A104 8	Techaura	Paper Presentation	IEEE FEST, Sep 28 <sup>th</sup> ,2013
24	M.Snehitha	12B81A104 6	Techaura	Paper Presentation	IEEE FEST, Sep 28 <sup>th</sup> ,2013
25	K.Yashaswini	12B81A105 7	Cognizence	workshop	IEEE Techfest Sep 28 <sup>th</sup> ,2013
26	K.Somnath	12B81A104 7	Robo gravity	workshop	CIENCIA'2K1 4

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.

**Table 4.8: list of students participated in different Entrepreneurship programmes**

S. No.	Activity	Description	DATE
1	Charms of Entrepreneurship.	Achievement Motivation Technique Marketing Assessment.	2 <sup>nd</sup> -4 <sup>th</sup> Feb 2012
2	Establishment of Entrepreneur	Licences & Clearances	2 <sup>nd</sup> -4 <sup>th</sup> Feb 2012
3	Soft Skills Development	Personality Developed Programme	28 <sup>th</sup> may-16 <sup>th</sup> jun 2012
4	Robotic Work Shop	Robotic Hands on	21 <sup>th</sup> may-31 <sup>th</sup> may 2012
5	Mini Project	Product Design	4 <sup>th</sup> jun-30 <sup>th</sup> jun 2012

**For the academic year 2013-14**

S. No.	Activity	Description	DATE
1	CIENCIA '13	Charms of Entrepreneurship. Achievement Motivation Technique .Marketing Assessment.	March 2014

**For the academic year 2012-2013**

S. No.	Activity	Description	DATE
1	Achievement Motivation Technique	Project Identification Characteristics of an Entrepreneur	20-12-2012
2	Establishment of Entrepreneur	Licences & 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

**For the academic year 2011-12**

S. No.	Student Name	Roll NO.	Venue	Date
1	Y.Pratyusha	08B81A1036	CVRCE	Feb 4 <sup>th</sup> 2012
2	M.Suvidha	08B81A1055	CVRCE	Feb 4 <sup>th</sup> 2012
3	M. Adithya	08B81A1002	CVRCE	Feb 4 <sup>th</sup> 2012
4	V.Ajith	08B81A1004	CVRCE	Feb 4 <sup>th</sup> 2012
5	S. Santosh	08B81A1042	CVRCE	Feb 4 <sup>th</sup> 2012
6	Sunaina Menon	08B81A1054	CVRCE	Feb 4 <sup>th</sup> 2012
7	T. Anush Kumar	09B81A1005	CVRCE	Feb 4 <sup>th</sup> 2012
8	A.Sridhar	09B81A1048	CVRCE	Feb 4 <sup>th</sup> 2012
9	B.Ajit	09B81A1003	CVRCE	Feb 4 <sup>th</sup> 2012
10	G.Durga Ajay Kumar	09B81A1002	CVRCE	Feb 4 <sup>th</sup> 2012
11	R. Kiran Kumar	09B81A1017	CVRCE	Feb 4 <sup>th</sup> 2012

12	J. Badrinath	09B81A1009	CVRCE	Feb 4 <sup>th</sup> 2012
13	K.Rohith Kumar	09B81A1031	CVRCE	Feb 4 <sup>th</sup> 2012
14	Y.Raviteja	09B81A1029	CVRCE	Feb 4 <sup>th</sup> 2012
15	S.Vikram	09B81A1059	CVRCE	Feb 4 <sup>th</sup> 2012
16	V. Abhijit	09B81A1001	CVRCE	Feb 4 <sup>th</sup> 2012
17	Ch. Sudeep Kumar	09B81A1050	CVRCE	Feb 4 <sup>th</sup> 2012
18	K. Prasann	09B81A1035	CVRCE	Feb 4 <sup>th</sup> 2012
19	S. Sathvik Reddy	09B81A1032	CVRCE	Feb 4 <sup>th</sup> 2012
20	G.Rakesh	09B81A1028	CVRCE	Feb 4 <sup>th</sup> 2012
21	B.Bindu	09B81A1010	CVRCE	Feb 4 <sup>th</sup> 2012
22	R. Sphurthi	09B81A1045	CVRCE	Feb 4 <sup>th</sup> 2012
23	N. Sushmitha	09B81A1052	CVRCE	Feb 4 <sup>th</sup> 2012
24	B. Pradeep	09B81A1024	CVRCE	Feb 4 <sup>th</sup> 2012
25	G. Nitin Kumar	09B81A1022	CVRCE	Feb 4 <sup>th</sup> 2012
26	M.Sai Sasidhar	09B81A1034	CVRCE	Feb 4 <sup>th</sup> 2012

**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 adopting 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, Alumnaei, Industry etc.) and placements.

With the College having Autonomous Status, teacher has direct scope to Cover syllabus:

- Prefer additional topics beyond syllabus and their relevance
- Learning by student is monitored through performance in internal examination
- Quiz assignment and internal test 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.

- 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.
- 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 all give ample scope to monitor the learning outcomes.

### **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.
- 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 Telangana State 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.

1. 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.
2. 28-3-2011 Blood donation camp in the college campus with the association of Red Cross society, vidyanagar. 179 students and staff donated blood.
3. Health awareness Talk on 7-04-2011 by Dr.ANIL KUMAR ,Medical officer on occasion of world health day,85 volunteers participated.
4. Save-environment group discussion on 5-06-2011 competition conducted for the volunteers ,25 volunteers participated
5. Tree plantation on 26-08-2011 in the College campus,150 saplings planted by 40 volunteers.

6. THE SPECIAL CAMP AT MANGALPALLI (V) DURING 2<sup>nd</sup> DECEMBER 2011 TO 9<sup>th</sup> DECEMBER 2011.
7. 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.
8. Mega Blood Donation Camp conducted in the College Campus on 6<sup>th</sup> March 2013 with Red Cross Society, Vidyanagar. 415 Students and staff donated blood.
9. Social Awareness and responsibility enhancement Talk organized for II B.Tech student in the college Campus on 6<sup>th</sup> 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.
10. A ONE DAY TRAINING PROGRAMME ON COMPUTER BASED FUNCTIONAL LITERACY (CBFL) conducted in the Campus on 2<sup>nd</sup> Jan 2014. 25 trainers from B.Tech 3<sup>rd</sup> year participated in the training session. At the training, Trainers received software, Primer and learned how to conduct Literacy programs in the Villages.
11. A Campus cleaning Programme was taken up under Swachh Bharat Programme by NSS volunteers on 16<sup>th</sup> October 2014 in the afternoon 2.30pm to 5.30 pm in the College premises.
12. 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.
13. Programme taken up under Swachh Bharat Programme by NSS volunteers of 149 Members on 16<sup>th</sup> 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., 14<sup>th</sup> 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 14<sup>th</sup> 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.Rajkumar, Dean Accademics 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 <sup>th</sup> ,9 <sup>th</sup> and 10 <sup>th</sup> 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.

- i) Students are encouraged to become members of IEEE, IETE, Instrumentation Society and paper writing contests, quiz, competitions etc., are held on regular basis.
- ii) Short internship at Government Laboratories called Industry Oriented Mini Project during 3<sup>rd</sup> year summer vacation is compulsory.
- iii) Technical seminar by students on research based article of IEEE transaction encouraged.
- iv) Students are made to execute mini project.
- v) Students are made to give presentations on technical papers in various conferences and monetary incentives are provided.
- vi) 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 competitions 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.

### 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 an five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department****Strength:**

- Well qualified senior faculty members
- Well equipped laboratories
- Good library
- Well structured curriculum
- Good placement record

**Opportunities:**

- Instrumentation needs are ever expanding across various sectors and diversified
- Sensors, transducer, PLC, SCADA are futuristic cutting edge technologies providing enormous opportunities.
- The department has now only one section of B. Tech. Hence growth opportunity is quite wide.
- 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:**

- Fresh infusion of well qualified teachers in tune with the expansion programme
- Development of curriculum in tune with fast changing dynamics
- Motivating cream of the students to opt for the branch of EIE
- Ensuring that the department remains one of the best EIE dept. in entire Telengana state
- Fostering research culture.

**Weakness:**

- Absence of PG programmes in Instrumentation Engineering at our college
- Absence of full fledged exclusive software system lab for industrial automation
- Absence of intensive research pursuit on full time basics in Instrumentation Engineering

**39. Future plans of the department.**

- Starting M.Tech program in (i) Instrumentation Engineering, (ii) Process Control Instrumentation
- 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
2. **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)
3. **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	Probability and Statistics	H & S	II year/I sem.	3
15	Environmental Studies	H & S	II year/I sem.	3
16	Electronic Devices and Circuits	ECE	II year/I sem.	4
17	Digital Logic Design	ECE	II year/I sem.	3
18	Electrical and Electronics Engineering Lab.	EEE/ECE	II year/I sem.	2
19	Verbal Ability Lab.	H & S	II year/I sem.	1
20	Reasoning and Logic Lab.	H & S	II year/I sem.	1
21	Managerial Economics and Financial Analysis	H & S	III year/I sem.	3
22	Micro Processors & Micro Controllers	ECE	III year/I sem.	4
23	Advanced English Communication & Soft Skills lab.	H & S	III year/I sem.	2
24	Micro Processors & Micro Controllers Lab.	ECE	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

**4 Annual / Semester / choice based credit system:**

B.Tech Semester pattern with prescribed credits for each subject.

**5 Participation of the department in the courses offered by 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
Data Structures Through C	B. Tech I Year – II Semester	ECE	3
Data Structures Through C	B. Tech I Year – II Semester	EIE	3
Operations Research	B. Tech. IV year – I Semester	MECH.	3
Network Security	M. Tech (WMC) II Semester	ECE	3

**6. Number of teaching posts sanctioned and filled (Professors / Associate Professors / Asst. Professors)**

	Sanctioned (As per AICTE Norms)	Filled (As per AICTE Norms)
Professors	2	3
Associate Professors	6	5
Asst. professors	16	17
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 2014-15:

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, 24 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 20 years Teaching 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	15 years	5(Guiding)
4	Mr. C.V.S. Satyamurthy	M. Tech., (PhD), JNTU, 2000	Assoc. Prof., 21-4-2007	Software Engineering	06 years of Industry, 16 years of teaching	-
5	Mr. B. Vikranth	M. Tech, (PhD), OU, 2006	Assoc. Prof., 06.08.2004	Linux Programming	13 years Teaching 5 Years Research	-
6	Mr. K. Brahmanand	M. Tech, HCU, 1993	Assoc. Prof., 01-6-2005	Software engineering	9 years Teaching, 9 years Industry	-
7	Mrs. H. N. Lakshmi	M.S, BITS (PhD) 1998	Assoc. Prof., 30-5-2006	Web Services, Data structures	13 years	-
8	Mrs. E. Jyothikiranmayi	M. Tech., (PhD), JNTU, 2004	Assoc. Prof., 08-6-2009	Wireless Sensor Networks	10 years	-
9	Mr. S. Anupkant	M. Tech, JNTU, 2010	Asst. Prof., 27-10-2004	Embedded Systems	10 years	-
10	Mr. A. Seetharam Nagesh	M. Tech, JNTU, 2010	Asst. Prof., 26-6-2006	Cloud computing	13 years	-
11	Mrs. G. Bhagyasri	M. Tech, OU, 2013	Asst. Prof., 02-6-2008	Web Services, Data structures	9 years	-
12	Mr. Vamsi Vijaya Krishna	M. Tech, JNTU, 2013	Asst. Prof., 04-6-2008	OOPS, Design patterns	7 years	-
13	Mrs. S. Rajitha	M.Tech, JNTU, 2013	Asst. Prof., 12-6-2008	Web usage Mining	9 years	-
14	Mrs. G. Sunitha Rekha	M. Tech, JNTU, 2011	Asst. Prof., 01-6-2010	Data Mining	8 years	-
15	Mrs. A. Sri Chandana	MS, JNTU, 2007	Asst. Prof., 01-6-2010	DBMS	4 years	-
16	Mr. K. V. Sri Harsha	M. Tech, AU, 2006	Asst. Prof., 08-6-2010	Computer Vision	5 years	-
17	Mr. Bhanu Mahesh	M. Tech, JNTU, 2010	Asst. Prof. 14-6-2010	Cloud Computing and Data Mining	10 years	-

18	Mrs. B. Babitha	M. Tech, OU, 2010	Asst. Prof., 06-7-2010	Data Mining	5 years	-
19	Mr. Nayani Sateesh	M. Tech, M. Phil (PhD), 2010, JNTU	Asst. Prof., 01-6-2011	Web technologies	3years-Industry, 3 years-Teaching	-
20	Mrs. S. Jyothsna	M. Tech, JNTU, 2010	Asst. Prof., 01-07-2011	Cloud computing	10 years	-
21	Mrs. N. Pavani	M. Tech, JNTU, 2013	Asst. Prof., 29-06-2006	Design patterns	9 years	-
22	Mr. M. Srinivas	M. Tech, UOM, 2013	Asst. Prof., 10-7-2013	Soft computing	7 years	-
23	Mrs. Priyanka Gupta	M. Tech, JNTU, 2014	Asst. Prof., 24-01-2014	Image Processing	1 year	-
24	Mrs D.Mamatha Rani	M. Tech, JNTU, 2011	Asst. Prof., 02-06-2014	Cloud Computing, Mobile computing	8 years	-
25	Mr.P.Seravana Kumar	M. Tech, JNTU, 2011(Ph.D)	Asst. Prof., 02-08-2014	Bio Data Mining	7 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
11	11	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):39

Type of paper	13-14	12-13	11-12	10-11
International Conference	2	6	1	2
International Journal	1	7	8	-
National Journal	2	7	2	1
National Conference	-	-	-	-
Total	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 Satyamurty
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 and Mrs. H. N. Lakshmi 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
1	Web Services Selection On QoS Parameters	Web Services Web Technologies Database	Eclipse IDE, apache Tomcat 6.0.14, MYSQL Server 5.5
2	Keystroke Dynamics Authentication	Networks Security	Eclipse IDE and Tomcat 7.0
3	Collaboration In Multicloud Computing Environments Framework And Security Issues	CLOUD COMPUTING Network Security	OS : Win XP/7/8 programming language: java
4	Cut Detection In Wireless Sensor Networks	Design and analysis of algorithms, Computer Networks	Eclipse Editor , Java and RMI
5	Continuous Skyline queries for moving Objects	Data Base Management System, Data ware housing &	Eclipse, Oracle database 10g Express, Java,

6	Robust Video Data Hiding Using Forbidden Zone Data Hiding And Selective Embedding	Network Security, Data structures Through C, Object	Tools: JDK 1.6 API: J2se UI: Swings
7	A Mobile Application To Access Remote Database Web Service	Web Services	EclipseIndigo, Phone Gap,Android SDK,Java JDK,JSON
8	Forensic Recovery Of Files From Hard Disk	Operating Systems	Windows XP C++
9	A Tool To Compute Metrics For Assessing The Testability Of Object Oriented Software	Software Engineering Object Oriented	Programming paradigm: Object Oriented
10	An Improved Frequent Pattern Tree Based Association Rule Mining Technique	Data ware housing and Data mining, Object oriented	J2SE API (Swings,I/O,Refinery Utilities),JDK

#### 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
Linux System Programming	Self Supported	Dr. Bipin B. Jayasingh	23 <sup>rd</sup> , 24 <sup>th</sup> , 30 <sup>th</sup> March & 6 <sup>th</sup> 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 <sup>st</sup> 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,Australia,Dr.Rajeev Wankar,Univ of Hyd	Teachers from CVR college of Engg & other Engg Colleges & research org

**21. Student profile course-wise:**

Name of the Course	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
2007-11	Admissions are made by Convener appointed by Govt. based on State Rank and following statutory reservations	53	19	100	100
2008-12		71	48	75	94
2009-13		67	49	93	96
2010-14		53	59	78	95

**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
No of Students for GATE	01	03	02	01	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	56
• Other than campus recruitment	15
Entrepreneurs	-

**25. Diversity of staff**

Percentage of faculty who are graduates of the same parent university	54.2%
From other universities within the State	37.5%
From other universities from other States	8.3%



**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	February-2014

**27. Present details about infrastructural facilities**

a) Library

Volumes: 6335  
Titles: 1190  
Internal Journals: 14  
National Journals: 08

b) Internet facilities for staff and students:

Name of the Internet provider:	<b>Apollo</b>	<b>Vaishnavi</b>	<b>BSNL</b>
Available bandwidth:	<b>25 Mbps</b>	<b>15 Mbps</b>	<b>10 Mbps</b>
Access speed:	<b>2 Mbps (max) for individual</b>		

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 and LCD fixed in 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	14	available with algorithms
IT workshop	Exclusive	IT	I I&II semester	12	available with Examples
Laboratory Description on the Curriculum	Exclusive use/Shared	Handled by (Dept.)	Year	No. of experiments	Lab Manuals
C and Data Structures	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	14	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	18	available with algorithms
Mobile Application Development Lab	Exclusive	IT	IV- I Semester	14	available
Case Tool &Software Testing lab	Exclusive	IT	IV-I semester	17	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

**The following photos show the class room and Laboratory of IT:**



**28. Number of students of the department getting financial assistance from 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.					
			2014-15 (Yet to Received)	2013-14 (Aailed)	2012-13 (Aailed)	2011-12 (Aailed)	2010-11 (Aailed)	2009-10 (Aailed)
1	B. Tech. ( I T )	I Yr.	41	60	45	44	45	54
		II Yr.	58	44	44	44	52	43
		III Yr.	42	39	43	50	40	26
		IV Yr.	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.

Chairmen 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 go for 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 4<sup>th</sup> week of commencement of semester and at 15<sup>th</sup> 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 GB, AC and Bus. Industry Personnel 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**

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 softskills 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 softskills 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
- College is organizing Technical Fest in which workshops seminars etc, will be organized by the students. Few of these are listed below:

S No	Student/f aculty	Event name	Month & Year	Venue	Speakers	Topic	Durat ion
1	Students	Collegiate Cyber Threat Competition — Wave III	Jan,2014	Deloitte	Trainers , Deloitte	Collegiate Cyber Threat Competition	1 day
2	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 to get focused from first year itself.	3 days

3	All Final Years Students	FF2H	10th Sep, 2013	CVR College of Engineering	Pradeep Desu-HR Pocket Gems	Seminar on FF2H	1 day
4	III Year students	SAP Tech university ,2013 seminar	Aug.,2013	CVR College of Engineering	Rahul sachdev. Manager, Industry Academia Alliance	SAP	1 day
5	All third year students	session	August, 2013	CVR College of Engineering	Anil Nair	Addressing CAT / MBA Career opportunities 2015 Pass Outs	1 day
6	Faculty of I.T	Infosys Campus Connect Faculty Excellence Awards -13	Aug 2013	Infosys campus, hyderabad	Dr. Sudheer Mr. Bhanu Prakash	Appreciation for faculties of Infosys and campus connect	1 day
7	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
8	All Third Year Students	Soft Skill Program	May 2012	CVR College of Engineering	Prem Prakash Dayal (Infosys)	Soft skills	1 day
9	All Final Year Students	Career launcher	May/June 2012	Infosys campus	Infosys	Infosys Campus Connect and Quant/Apt	25 days
10	139 Students and 8 Faculty	Workshop	Mar 2012	CVR College of Engineering	IBM TGMC Partner	TGMC	1 day
11	2 <sup>nd</sup> and 3 <sup>rd</sup> year Students (300 No's)	Infosys Spark Program	Feb 2012	Infosys campus	Infosys Trainer	Technical event	1 day
12	All 3 <sup>rd</sup> 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
13	All Final Year Students	Infosys SST by Internal Faculties and Cube G Services	Aug. 2011	CVR College of Engineering	Infosys Trainers	Soft skills	7 days

14	All Final Year Students	Seminar	July 2011	CVR College of Engineering	Suresh – Infosys Trainer	Business Etiquette and Corporate Grooming	1 day
15	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 <sup>th</sup> 2011 to 21 <sup>st</sup> May 2011
16	All Final Year Student	TCS Pre Placement Talk	Nov 2010	CVR College of Engineering	TCS Partner	Pre placement talk	1 day
17	All Final Year Students	Persistent Pre Placement Talk	Oct 2010	CVR College of Engineering	Persistent Partner	Pre placement talk	1 day
19	All Final Year Students	Corporate - Soft Skills Training	Sept – Oct 2010	CVR College of Engineering	Mohd. Sirajuddin Junadi	Soft skills training	15 <sup>th</sup> Sept. 2010 to 28 <sup>th</sup> Oct. 2010

**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 approved by the College Academic Committee. NBA and AICTE recommendations are also considered.



There is annual assessment of PEOs and POs based on information obtained from direct and indirect assessment 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 Pos and COs for each subject.

To illustrate, in B.Tech III year II semester the course name is Linux programming. The related course outcomes (CO) are given below:

CO1	Realize basic system calls and library functions on file operations.
CO2	Design and implement concurrent programs using threads and process with different IPC mechanisms.
CO3	Ability to develop basic web sites with some dynamic content and data base connectivity programs in order to develop client server based applications

The performance in Internal, end examinations together with assessment made in direct and indirect tools are utilized to ensure the programme outcomes (COs) are satisfactorily meant with. Where ever necessary extra effort is put by the departments for improvements of the student's performance. It could be remedial coaching, additional lab instructions, motivating the slow and fast learners for their requirements.

#### 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 <sup>rd</sup> 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 <sup>th</sup> 19 <sup>th</sup> 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 <sup>th</sup> & 6 <sup>th</sup> 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**

S. 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
S. No	Title	Assignments of periods		PEO's and PO	Additional topics to meet PEOs
		Theory	Tutorial		
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 <b>Task-aware computing: A new computing paradigm</b>

**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. Chandrsekhar 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 Googletech 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 4<sup>th</sup> and 5<sup>th</sup> 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 3<sup>rd</sup> module and the other at the end of 5<sup>th</sup> 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
	<b>NBA-AICTE Accreditation visits and accreditation granted, if any . . . .</b>
<b>2006-07</b>	* The Accreditation Team has visited the College during 25 <sup>th</sup> to 27 <sup>th</sup> 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.
	<b>Description</b>
	<b>NBA-AICTE Accreditation visits and accreditation granted, if any . . . .</b>
<b>2012-13</b>	*The Accreditation Team has visited the College during 13 <sup>th</sup> to 15 <sup>th</sup> 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.
<b>2011-12 to 2013-14.</b>	JNTUH has accorded autonomous status for a period of 3 years
<b>201415 to 2019-2020</b>	UGC, New Delhi has accorded Autonomy for 6 years
<b>2014</b>	UGC, New Delhi accorded sanction of 2(f) and 12(B) under UGC act dated 19 <sup>th</sup> 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:**

Laboratories for research work projects / consultancy.

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:**

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 Financial Analysis	III/I	H&S	3
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:**

Semester based credit system

**5. Participation of the department in the courses offered by other departments:**

S.No	Name of the subject	Departments Involved	Credits
1	Engineering Drawing – I	ECE,EEE,CSE,IT,EIE,Civil	2
2	Engineering Workshop lab	ECE,EEE,CSE,IT,EIE,Civil	2
3	Engineering Drawing – II	ECE,EEE,CSE,IT,EIE,Civil	2
4	Workshop Practice lab	Civil	2
5	Mechanics of Fluids & Hydraulic Machines lab	EEE	2
6	Engineering Optimization	ECE,EEE,CSE,IT,EIE,Civil	3

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

	Required as per norms of AICTE	Filled
Professors	1	3
Associate Professors	4	4
Asst. Professors	11	22
Total	16	29*

- Keeping in view 1<sup>st</sup> 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	4
2	Dr.S. Deva Prasad	Ph.D	Professor	Production management	18	-
3	Dr.G.V.Prasanna	Ph.D	Professor	Systems Technology	20	-
4	B. Appalanaidu	M.E	Assoc. Professor	Automation and Robotics	18	-
5	V.S.P Vamsi	M.S	Assoc. Professor	Industrial Engineering	14	-
6	V. Rajender kumar	M.Tech (Ph.D)	Assoc. Professor	Thermal Engineering	24	
7	Mokara Prem Swarup	M.Tech	Assoc. Professor	Industrial Engineering & Management	28	
8	P.V Sai Divya	M.Tech	Asst. Professor	CIM	3.5	-
9	Gayatri Vineela.M	M.E	Asst. Professor	Production engineering	10.8	-
10	G. Mrudula	M.E (Ph.D)	Asst. Professor	Production engineering	7	-
11	S.Rakesh	M.Tech	Asst. Professor	Mechanical systems Design and Dynamics Control	4.6	-
12	P. Sadanandam	M.Tech (Ph.D)	Asst. Professor	Hydropower	8	-
13	D. Rambabu	M.Tech	Asst. Professor	Thermal Engineering	2.5	-
14	G. Bharath Reddy	M.Tech	Asst. Professor	Advance Manufacturing systems	2.5	-
15	G. Naveen Kumar	M.Tech	Asst. Professor	CAD/CAM	3	-
16	P Srinivas Reddy	M.Tech	Asst. Professor	Thermal Engineering	8.8	-

17	V. Sucharitha	M.Tech	Asst. Professor	CAD/CAM	5.6	-
18	K. Chadra Sekhar	M.E	Asst. Professor	CAD/CAM	5	-
19	Mr M Srinivas Reddy	M.Tech	Asst. Professor	Thermal Engineering	20	-
20	J Krishna Chaitanya	M.Tech	Asst. Professor	Thermal Engineering	4	-
21	V Rahul	M.E	Asst. Professor	Manufacturing	2	-
22	T Dinesh Kumar	M.Tech	Asst. Professor	Thermal Engineering	3	-
23	Mr. Jayant Gopal Thakare	M.Tech	Asst. Professor	Manufacturing	5	-
24	Udaya Kiran	M.Tech	Asst. Professor	Applied Mechanics	0.6	-
25	Ch. Lalitha	M.Tech	Asst. Professor	Advanced Manufacturing systems	1	-
26	T Manoj Kumar Dundi	M.Tech	Asst. Professor	Thermal Engineering	1.7	-
27	S Venkata Sai Sudheer	M.Tech	Asst. Professor	Thermal Engineering	4	-
28	M.V.B Krishnam Raju	M.Tech	Asst. Professor	Industrial Metallurgy	20	-
29	P. Lava kumar	M.Tech	Asst. Professor	Materials Engineering	2.5	-

**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: 10:1**

**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. Srinvasa 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

- State Recognition recognitior
- Nnational recognition
- 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

### 14. Publications

The following are the details of publications of the teaching staff in the department.

#### 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	<b>Dr. T. A. Janardhan Reddy</b> Mr. P. Srinivasa Reddy	4 <sup>th</sup> World Congress on Engineering & Technology, at Wuhan University, WUHAN, People's Republic of China.
2	Dynamic Analysis of FRANCIS Runner	<b>Mr. P. Sadanandam</b>	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	<b>Mr. P. Srinivas Reddy</b> 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	<b>Mr. G. Bharath Reddy</b> Mr. G. Naveen Kumar Mr. K. Chandra Sekhar	International Journal of Current Engineering and Technology in June, 2014.
5	Dynamic Response of NACA 0018 FOR Car Spoiler Using CFRP Material	<b>Mr. G. Naveen Kumar</b> Mr. G. Bharath Reddy Mr. K. Chandra Sekhar	International Journal of Current Engineering and Technology in June, 2014.
6	Design of Blade for a Wooden Small Scale Wind Turbine for Domestic Purpose	<b>Mr. K. Chandra Sekhar</b> Mr. G. Naveen Kumar Mr. G. Bharath Reddy	International Journal of Current Engineering and Technology in June, 2014.
7	Investigation of Separator Parameters in Kalina Cycle Systems	K Deepak , A V S S K S Gupta , T Srinivas , S V Prabhakar Vattikuti , <b>S Deva Prasasd</b>	<b>Int J of Current Engineering and Technology, Special Issue-2 (Feb 2014),</b> Pages : 496-500, DOI: <a href="http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.93">http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.93</a> .
8	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 , <b>S.Deva Prasad</b> ,V .Kamala And A.M.K.Prasad	<b>Int J of Current Engineering and Technology, Special Issue-2 (Feb 2014),</b> Pages : 687-691, DOI: <a href="http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.130">http://Dx.Doi.Org/10.14741/Ijcet/Spl.2.2014.130</a> .

**Academic Year: 2012-13**

<b>S No.</b>	<b>Title of publication</b>	<b>Authors as given in the publication</b>	<b>Reference of the publication</b>
1	Effect of Friction Factor on Wrinkling and Fracture Limits in Deep Drawing of Cylindrical Cup	R. V .Reddy. <b>T .A .Janardhan Reddy</b> 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. <b>T .A .Janardhan Reddy</b> G.C.M Reddy	International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol.3, issue 3, March 2013.
3	Studies on Wrinkling and Fracture Limits in Deep Drawing of Cylindrical Cup	R. V .Reddy. <b>T .A .Janardhan Reddy</b> 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 <b>T.A. Janardhan Reddy</b> G. Gopi	RIST, ICAEM-2013 2 <sup>ND</sup> International conference on Advancement in Engineering and Management, 27&28 Feb2013.
5	Supply Chain Management in Indian context	M.V. Ramana Reddy <b>T. Balaji Gupta</b>	6 <sup>th</sup> international conference on Contemporary Business” 8 <sup>th</sup> – 10 <sup>th</sup> November 2012” IIT Delhi
6	Investigation on Mechanical and Micro Structural Behaviour of Friction Stir Weldments of ZE42 Magnesium Alloy	<b>Mrudula. G</b> M.Sreenivasulu Dr. A. Krishnaiah	International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol.2, Issue 8, August-2012
7	RFID: Technology, issues, applications and growth	<b>T. Balaji Gupta,</b> M. Sreenivasa Rao	International Journal of Engineering Research & Technology (IJERT), Vol. 1, Issue 5, July-2012

**Academic Year :2011-12**

<b>S No.</b>	<b>Title of publication</b>	<b>Authors as given in the publication</b>	<b>Reference of the publication</b>
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

<b>S No.</b>	<b>Title of publication</b>	<b>Authors as given in the publication</b>	<b>Reference of the publication</b>
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**

<b>S No.</b>	<b>Title of publication</b>	<b>Authors as given in the publication</b>	<b>Reference of the publication</b>
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
2010-2011	1	1	1
2011-2012	5	5	-
2012-2013	5	-	2
2014-2015	9	-	3

**Text Books**

Academic Year	Title	Status
2013-2014	<b>Production Drawing Practice</b> By P.N Reddy , T.A.J Reddy and C.S Rao	Under Revision for 2 <sup>nd</sup> Edition
2012-2013	Deva Prasad S, <b>Multi-Objective Flowshop Scheduling: A Genetic Algorithmic approach</b> , 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: ---**

- a. Manufacturing for other departments – Rs 6,300/-
- b. 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 writing to 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:**

- a. Invited Guest Lectures
- b. Organizing in house workshops
- c. 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.



**18. 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%

**19. Awards /recognitions received at the national and international level by**

- Faculty
- Doctorial/post doctoral fellows

Department of Mechanical Engineering is a new department with first batch now in final year.

**20. 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/ Internatio nal )	Name of external body involved, if any	Source of funds	Amou nt (Rs)
SAE Club Inauguration & Automotive Mechanics	Automobile Engineering	19/9/14 to 20/9/14	Intra college / Regional	SAE India & Robosapi ens	StudentsContrib ution & College funds	50,000
Entrepreneur ship Awareness Camp	Entrepreneur ship	4/09/20 14 to 6/09/20 14	Intra college	Osmania Universit y	College funds	28,000
ROBO GRAVITY	Robotics	28/02/1 4 to 01/03/1 4	Intra college	IIT, Mandi and ABLab Solutions	Students Contribution & College funds	40,000
The Science of Aircraft	Aerospace	23/01/1 4 to 25/01/1 4	Intra college	TERA INC.	College funds	26,000
Engineering Research Methodology	Research methodologi es	17/01/1 4 to 18/01/1 4	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

### 21. Students profile course-wise for the year 2014 – 2015

Name of the course <b>B.Tech</b>	Applications received	Selected For <b>2014 – 2015</b>		Pass percentage	
		Male	Female	Male	Female
<b>Mechanical</b>	<b>Allotted by EAMCET</b>	197	43	<b>Will receive degree in May 2015 only. Information does not arise now.</b>	

### 22. 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>B.Tech I Year</b>	-	<b>100</b>	-	-
<b>B.Tech II Year</b>	-	<b>100</b>	-	-
<b>B.Tech III Year</b>	-	<b>100</b>	-	-
<b>B.Tech IV Year</b>	-	<b>100</b>	-	-
-	-	-	-	-

**23. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations?**

First batch of B.Tech is now in final year and will be completing by May 2015.

**24. Student progression**

<b>Student progression</b>	<b>Percentage against enrolled</b>
UG to PG	<b>Information does not arise now. First batch will complete B.Tech in May 2015.</b>
PG to M.Phil.	
PG to Ph.D	
Ph.D to Post-Doctoral	
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus selection</li> </ul>	10 as of now
Entrepreneurs	<b>Does not arise now.</b>

**25. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
Of the same parent university	28 %
From other universities within the state	20 %
From other universities from other states	52 %

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period**

**Department started functioning from 2011-12.**

**27. Present details about infrastructural facilities**

- a. Library: Total number of titles:389
- b. Internet facilities for staff and students: 8 terminals for faculty. Lab facility for students
- c. Total number of classrooms **8**
- d. Class rooms with ICT facility **----**
- e. 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)

- f. Research laboratories
  - i. CAD/CAM lab
  - ii. Advanced Manufacturing lab

The following photos show the CNC Machine Centre and Interior view of Machine Tools Lab:



**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 Recived)	2013-14 (Availed)	2012-13 (Availed)	2011-12 (Availed)	2010-11 (Availed)	2009-10 (Availed)
<b>I Yr.</b>	84	52	20	25	-	-
<b>II Yr.</b>	51	20	25	-	-	-
<b>III Yr.</b>	20	25	-	-	-	-
<b>IV Yr.</b>	25	-	-	-	-	-

**29. 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.

**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**  
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 4<sup>th</sup> week of commencement of semester and at 15<sup>th</sup> 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 Bench of mark of 75% grading is adopted. Faculty scoring 65 to 75% are individually counseled by the 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.
- 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 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 more than two subjects in a semester.
- Corrective measure - giving more laboratory classes.
- Any fresh 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? **Not Applicable**

**31. List the distinguished alumni of the department**

Does not arise as the alumni will be from May 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

**Workshops**

S.No	Title of the activity	Date from-to (Latest first)	Name of by external body involved, if any
1	SAE Club Inauguration & Automotive Mechanics	19/09/2014 to 20/09/2014	SAE India & Robosapiens
2	Entrepreneurship Awareness Camp	04/09/2014 to 06/09/2014	Osmania University
3	ROBO GRAVITY	28/02/2014 to 01/03/2014	IIT, Mandi and ABLab Solutions
4	The Science of Aircraft	23/01/2014 to 25/01/2014	TERA INC.
5	Entrepreneurship Awareness Camp	19/09/2013 to 21/09/2013	Osmania University
6	Learning Outcomes	16/03/2013	Ramky group
7	CAD/ CAM for Enhanced Quality	21/02/2013 to 23/02/2013	Osmania University, DRDL, NIT - Warangal
8	Entrepreneurship Awareness Camp	20/12/2012 to 22/12/2012	Osmania University
9	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 -70%
- Audio Visual Presentations - 20%
- Industrial visits - 5%
- Specific lab demos - 5%

**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
  - Skills in presenting seminars
  - Learning aptitude based on mini projects and projects completed
  - 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 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

**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.

#### **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 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 quality testing of farm equipments.
- To increase R&D activities.
- To improve the qualification of the faculty by 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.)**  
B. Tech in CSE, Civil, ECE, EEE, EIE, IT and Mechanical Engineering streams.
- 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.
- 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
1.	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
2.	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

3.	Physics	I-Year/I or II Sem	Engineering Physics/Advanced Physics
		I-Year/I or II Sem	Physics Lab
4.	Chemistry	I-Year/I or II-Sem	Engineering Chemistry
		I-Year/I or II-Sem	Chemistry Lab
5.	Env. Studies	II-Year/I or II-Sem	Environmental Studies
6.	Management Science	III-Year/I-Sem	Managerial Economics & Financial Accounting (MEFA)
		IV-Year/II-Sem	Management Science
		IV-Year/	Entrepreneurship (Elective) Intellectual Property rights (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	Professors	Associate Prof.	Assistant Prof.
English	---	---	15
Mathematics	2	1	14
Physics	2	---	10
Chemistry	---	---	10
Management Science	---	1	5
Environmental Studies	---	---	3
<b>Total:</b>	<b>4</b>	<b>2</b>	<b>57</b>

**7. Faculty Profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

S.No	Name	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.D.Linga Reddy	M	Professor & COE	M.Sc; M.Sc(Tech), Ph.D	Physics	37
3.	Mr.Raghavendra Kulkarni	M	Asst. Professor	M.Sc, M.Phil,B.Ed.(Ph.D)	Physics	14
4.	Ms. Poornima B. Shetty	F	Asst. Professor	M.Sc.	Physics	6
5.	Dr. V. Seetha Rama Raju	M	Asst.Professor	M.Sc, Ph.D.	Physics	8
6.	Mr. Sheik Ahammed	M	Asst.Professor	M.Sc.(Ph.D.)	Physics	6
7.	Mr. R. Subba Rao	M	Asst.Professor	M.Sc.	Physics	5.6
8.	Mr. K. Satish	M	Asst.Professor	M.Sc.	Physics	3
9.	Mr. V. Suryanarayana	M	Asst.Professor	M.Sc.	Physics	10
10.	Ms. G. Alekhya	F	Asst.Professor	M.Sc.	Physics	1
11.	Ms. S. Sindhura	F	Asst.Professor	M.Sc.	Physics	3.5
12.	Mr. G. Ramesh	M	Asst.Professor	M.Sc, M.Tech.	Physics	4
13.	Dr. M. Krishna Reddy	M	Professor	M.Sc, Ph.D.	Statistics	37
14.	Dr. K. Satyanarayana	M	Professor	M.Sc, Ph.D.	Mathematics	40
15.	Dr. Rafiuddin	M	Assoc. Professor	M.Sc, Ph.D.	Mathematics	23
16.	Dr. D. Shankaraiah	M	Asst. Professor	M.Sc,M.Phil,Ph.D.	Mathematics	15
17.	Dr. G. Sreedhar Sarma	M	Asst. Professor	M.Sc,M.Phil,Ph.D.	Mathematics	10
18.	Mr. V. Ramakrishna	M	Asst.Professor	M.Sc,M.Phil.	Mathematics	15
19.	Mr. Y. Srikanth Mahadev	M	Asst.Professor	M.Sc.	Mathematics	15
20.	Dr. G. Mallikarjun Reddy	M	Asst.Professor	M.Sc.,M.Phil.,Ph.D	Mathematics	15
21.	Mrs. P. Meenakshi	F	Asst.Professor	M.Sc.	Mathematics	13
22.	Mr. J. Ramesh Babu	M	Asst.Professor	M.Sc.,M.Phil.,(Ph.D)	Mathematics	13
23.	Mr. M. Nutan Kumar Reddy	M	Asst.Professor	M.Sc	Mathematics	8

24.	Mr. G. Narender	M	Asst.Professor	M.Sc.	Mathematics	11
25.	Dr. T. Sreekanth	M	Asst.Professor	M.Sc.,Ph.D.	Mathematics	1
26.	Mr. R. Gautham Goud	M	Asst.Professor	M.Sc.,(Stat.)	Statistics	12
27.	Mr. B. Vittal	M	Asst.Professor	M.Sc.,(Stat.)	Statistics	6
28.	Mr. P. Sai Shankar	M	Asst.Professor	M.Sc.,(Stat.)	Statistics	1
29.	Mrs.V. Swapna	F	Asst.Professor	M.Sc.	Statistics	9
30.	Ms. Vanitha Singireddy	F	Asst.Professor	M.A.,M.Phil.	English	20
31.	Ms. Kalavathi Mallaiah	F	Asst.Professor	M.A.,M.Phil.	English	9
32.	Ms. Richa Dheer	F	Asst.Professor	M.A.	English	5
33.	Ms.B.Bhawani	F	Asst.Professor	M.A.,M.Phil.	English	20
34.	Mrs. K. Bhanu Rekha	F	Asst.Professor	M.A.	English	16
35.	Mr. Samuel C.	M	Asst.Professor	M.A.	English	6
36.	Mr.K.K.Malhari	M	Asst.Professor	M.A.	English	1.5
37.	Mr. R. Tirumala	M	Asst.Professor	M.A.	English	10
38.	Mr. S. Upendar	M	Asst.Professor	M.A.,B.Ed.	English	1
39.	Ms. G. Sai Lakshmi	F	Asst.Professor	M.A.	English	7
40.	Mr. Lawrence Raj	M	Asst.Professor	M.A.	English	15
41.	Dr. T. Hymavathi	F	Asst.Professor	M.A.,Ph.D.	English	27
42.	Ms. B. Geetha Devi	F	Asst.Professor	M.A., L.L.B.,Ph.D	English	14
43.	Ms. Jaya Verma	F	Asst.Professor	M.A.,M.Phil.,(Ph.D.)	English	7
44.	Mr. K. Murali	M	Asst.Professor	M.A.,B.Ed.	English	10
45.	Dr. Suchi Tiwari	F	Asst.Professor	M.Sc.,Ph.D.	Chemistry	9
46.	Mr. A. Venugopal	M	Asst.Professor	M.Sc.,B.Ed.	Chemistry	20
47.	Ms.P.Saritha	F	Asst.Professor	M.Sc.,M.Phil.	Chemistry	9
48.	Mr. G. Nagaraju	M	Asst.Professor	M.Sc.	Chemistry	6
49.	Mr. P. Bhadraiah	M	Asst.Professor	M.Sc.	Chemistry	12
50.	Ms. B. Vasavi	F	Asst.Professor	M.Sc.	Chemistry	3.5
51.	Mr. N. Hussain Basha	M	Asst.Professor	M.Sc.	Chemistry	5
52.	Ms. G. Hima Bindhu	F	Asst.Professor	M.Sc.	Chemistry	13.5
53.	Dr. K. Venkatesan	M	Asst.Professor	M.Sc.,P.h.D	Chemistry	3
54.	Ms. Madhulika Bhattacharjee	F	Asst.Professor	M.Sc.	Chemistry	2.6
55.	Mr. S. Sambasiva Sarma	M	Assoc.Professor	M.Phil.,(Ph.D.)	Mgt.Science	15
56.	Mr.M.Narender Reddy	M	Sr.Asst.Prof.	M.Com.	Commerce	7
57.	Mr. E. Uma Reddy	M	Asst.Professor	M.F.A,M.B.A,(Ph.D)	Mgt.Science	15

58	Mr.P.V.S.H. Sastry	M	Asst.Professor	M.B.A, M.Com.,M.F.M	Mgt.Scienc e	18
59	Dr.(Ms.)P. Vanishree Sah	F	Asst.Professor	M.B.A.,Ph.D	Mgt.Scienc e	6
60	Ms. Asifa Tazeem	F	Asst.Professor	MBA	Mgt.Scienc e	5.6
61	Ms. A. Rohini	F	Asst.Professor	M.Sc	Env. Studies.	7
62	Ms. K.T.Padma Priya	F	Asst.Professor	M.Sc.(Ph.D.)	Env. Studies	12
63	Dr. K. Navatha	F	Asst.Professor	M.Sc.,Ph.D.	Env. Studies	10

### 8. Percentage of classes taken by temporary faculty – programme-wise information

There are no temporary faculty members in this Department and all are full time 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** : N/A

**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. G. Mallikarjun Reddy	Osmania University	2014	Mathematics
06.	Dr. T. Srikanth	Institute of Mathematical Sciences	2014	Mathematics
07.	Mr. E. Uma Reddy	JNTU, Hyderabad	2014 submitted Thesis	Management Sciences
08.	Dr. G. Sreedhara Sarma	SV University, Tirupathi	2014	Mathematics
09.	Dr. J. Ramesh Babu	Charan Singh University, Meerut	2015	Mathematics

**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
Mathematics	3352	549	621
Physics	1014	125	206
Chemistry	470	56	198
Environmental Science	551	42	97
English	3030	585	761
Management Science	6019	2983	203
Total	14436	4340	2086

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 <sup>th</sup> October, 2013
“Application of Statistics in Real Life”	Dr. M. Krishna Reddy Prof. In Statistics	1 <sup>st</sup> February, 2014
“Physics and Applications of Nanostructures and Advanced Materials”	Prof. M. S. Rama Chandra Rao IIT Madras	6 <sup>th</sup> June, 2014

**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 two faculty members are designated to council them.
- Students are asked to make presentations in English Communication Lab.
- 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**

- The Department has faculty members who are very well experienced in teaching.
- Maximum number of Ph.D. qualified faculty members (13) are working in this Dept.
- There is an excellent academic atmosphere for teaching-learning-process to take place
- The laboratories in the Department are all very well equipped in spacious halls and that is an advantage.
- Sufficient number of faculty members is available to handle each subject so that no member is unduly loaded.

**Weaknesses**

- 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.
- Lack of recognized supervisors to guide Ph.D. Scholars in the College.
- Research Journals are to be strengthened.

**Opportunities**

- 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.
- Incentives offered by sanctioning leave for six months with salary and twice during Ph.D. work is a great advantage.
- Faculty members are in a position to make suitable modifications of the syllabus to make their teaching more effective, making use of Autonomous structure.
- College has the opportunity to excel in academics in view of the congenial atmosphere for teaching-learning process.

**Challenges**

- The Department has a challenge to provide necessary guidance and training in English language communications to students from rural back ground.
- The Mathematics faculty have to train the students with weaker background in necessary mathematical techniques to enable them to master engineering subjects.
- Since the students in first year of B.Tech are fresh in College, it is a challenge to orient them properly towards Engineering education.
- 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.

**39. Future plans of the Department.**

Department should be in a position to offer M.Sc. courses when situation permits. That will give better satisfaction of teaching.

**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 lost 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

