

# SELF STUDY REPORT

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

Bangalore, India



**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**(Approved by AICTE, Affiliated to Jawaharlal Nehru Technological University, Kakinada)**

**Tamaram, Makavarapalem, Narsipatnam road, Visakhapatnam District,  
ANDHRA PRADESH, INDIA.**

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**Phone: 08932-222382**

**Website: [www.avanthienggcollege.ac.in](http://www.avanthienggcollege.ac.in)**

January-2017

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## SECTION B: PREPARATION OF SELF-STUDY REPORT

### 1. Profile of the Affiliated/Constituent College

1. Name and Address of the College:

Name:	AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY	
Address:	Tamaram Post, Makavarapalem Mandal, Visakhapatnam District	
City:	Pin: 531113	State: Andhra Pradesh
Website:	www.avanthienggcollege.ac.in	

2. For Communication:

Designation	Name	Telephone With STD	Mobile	Fax	Email
Principal	Dr. C. P. V. N. J. Mohan Rao	O: 08932- 222382 R:	9849147304	08932- 222453	<a href="mailto:principal_alet@yahoo.com">principal_alet@yahoo.com</a>
Vice Principal		O: R:			
Steering Committee Co-ordinator	Dr. Ch Srinivasu	O: 08932- 222453	9493425808	08932- 222453	vasuch145@gmail.com

3. Status of the Institution: Affiliated College

4. Type of Institution:

- By Gender : **Co-education**
- By Shift : **Regular**

5. It is a recognized minority institution? - **NO-**

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

6. Sources of funding: **Self-financing**

7. a. Date of establishment of the college: 20/12/1999

b. University to which the college is affiliated/or which governs the college (If it is a constituent college)

**Jawaharlal Nehru Technological University Kakinada, Kakinada**

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i.2(f)	30 <sup>th</sup> Sep, 2013	NIL
ii.12(B)	30 <sup>th</sup> Sep, 2013	NIL

(Enclosed the Certificate of recognition u/s2(f) and 12(B) of the UGC Act)

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

Under Section/ Clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	South-Central/1- 2813229462/2016/EOA	25 <sup>th</sup> Apr, 2016	<b>One year</b>	
ii.				

(Enclosed the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC),on its affiliated colleges?

Yes  No

If yes,has the College applied for availing the autonomous status?

Yes  No

9. Is the college recognized

a. byUGCasaCollegewithPotentialforExcellence(CPE)?

Yes  No

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

b. for its performance by any other governmental agency?

Yes  No

If yes, Name of the agency.....and

Date of recognition:.....(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location*	Tamaram village, Makavarapalem Mandal, Narsipatnam Revenue Divn., Visakhapatnam District
Campusareainsq.mts.	31.23 acres
Builtupareainsq.mts.	17427 Sq. M.

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

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities- Available -
- Sports facilities
  - \* playground - Available -
  - \* swimming pool - NIL -
  - \* gymnasium - Available -
- Hostel
  - \* Boys' hostel
    - i. One Number ii. 150 inmates
    - iii. Telephone, Xerox, Wi-Fi, Sports, Gym, Library Facilities
  - Girls' hostel
    - i. One Number
    - ii. 50 inmates
    - iii. Telephone, Xerox, Wi-Fi, Sports, Gym, Library Facilities
  - \* Working women's hostel - NIL -
    - i. Number of inmates
    - ii. Facilities (mention available facilities)
- Residential facilities for teaching and non-teaching staff
  - Teaching staff : 10 Asst. Professors; Non-teaching staff - 15 Nos.
- Cafeteria— Available
- Health centre- Available

First aid, Inpatient, Out patient, Emergency care, Ambulance - Available

Health centre staff-

Qualified doctor

Fulltime

Part-time

Qualified Nurse

Fulltime

Part-time

- Facilities like banking, post office, book shops - Available
- Transport facilities to cater to the needs of students and staff - Buses
- Animal house - NOT APPLICABLE
- Biological waste disposal NOT APPLICABLE
- Generator or other facility for management/regulation of electricity and voltage - 85 KVA, 30 KVA & 10 KVA Generators available
- Solid waste management facility
- Waste water management
- Water harvesting - Yes -

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
	B. TECH						
1		ECE	4 yrs	10+2	English	180	79
2		CSE	4 yrs	10+2	English	180	75
3		EEE	4 yrs	10+2	English	60	31
4		MECH	4 yrs	10+2	English	180	141
5		AE	4 yrs	10+2	English	60	0
6		CE	4 years	10+2	English	60	6
	M. TECH						

7		VLSI System Design	2 yrs	B. Tech	English	18	6
8		D E C S	2 yrs	B. Tech	English	18	6
9		Power Electronics	2 yrs	B. Tech	English	24	15
10		Power Systems	2 yrs	B. Tech	English	18	12
11		Computer Science & Engg.	2 yrs	B. Tech	English	24	1
	MBA						
12		MBA	2 yrs	Degree	English	120	72
	UGDiploma						
13		DECE	3 yrs	Xth	English	60	34
14		DEEE	3 yrs	Xth	English	60	54
15		DME	3 yrs	Xth	English	60	60

13. Does the college offer self-financed Programmes?

Yes  No

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	6
-----	-------------------------------------	----	--------------------------	--------	---

15. List the departments: ( respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes  
Like English, regional languages etc.)



Faculty	Departments	UG	PG
Engg.	Electronics & Communications	1	2
Engg.	Computer Science &Engineering	1	1
Engg.	Electrical & Electronics Engineering	1	2
Engg.	Mechanical Engineering	1	0
Engg	Agricultural Engineering	1	0
MBA	Management Studies	0	1

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. annual system
- b. semester system
- c. trimester system

17. Number of Programmes with

- a. Choice Based Credit System
- b. Inter/Multi disciplinary Approach
- c. Any other (specify and provide details)

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes No

If yes,

a. Year of Introduction of the programme(s).....  
(dd/mm/yyyy)

and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.: ..... Date:

.....(dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes  No

19. Does the college offer UG or PG programme in Physical Education?

Yes  No

If yes,

a. Year of Introduction of the programme(s).....(dd/mm/yyyy)  
and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.:.....Date:

.....(dd/mm/yyyy) Validity:.....

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?  Yes  No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government <i>Recruit</i>										
<i>Yet to</i>										
Sanctioned by the Management/ society or other authorized bodies	15	0	24	5	139	22	58	13	22	4
<i>Recruited</i>	15	0	24	5	139	22	58	13	22	4
<i>Yet to</i>										

\*M-Male \*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	14	Nil	nil	nil	nil	nil	14
M.Phil.	--	--	--	--	--	--	--
PG	1	nil	24	5	139	22	191
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--

22. Number of Visiting Faculty/Guest Faculty engaged with the College. NII

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year1		Year2		Year3		Year4	
	Male	Femal	Male	Femal	Male	Femal	Male	Femal
SC	22	2	12	4	49	4	45	15
ST	4	0	2	3	9	3	13	4
OBC	218	61	162	46	244	66	235	66
General	100	50	78	28	112	47	129	47
Total	344	113	254	81	414	120	422	132

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the college is	324	112	nil	nil	436
Students from other states of	1	nil	nil	nil	1
NRI students	Nil	Nil	Nil	Nil	0
Foreign students	nil	nil	nil	nil	0
Total	325	112	0	0	437

25. Drop out rate in UG and PG( average of the last two batches)

UG  PG

26. Unit Cost of Education

*(Unitcost=total annual recurring expenditure (actual) divided by total number of students enrolled)*

(a) **including the salary component**   
 (b) **excluding the salary component**

27. Does the college offer any programme/s in distance education mode(DEP)?

Yes  No

If yes,

a) is it a registered centre for offering distance education programmes of another University

Yes  No

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes  No

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

S. No.	Name of the program	Teacher Student Ratio
1	B. Tech (ECE)	1:15
2	B. Tech (CSE)	1:15
3	B. Tech (EEE)	1:15
4	B. Tech (MECH)	1:15

5	M. Tech (VLSI System Design)	1:12
6	M. Tech (Digital Electronics & Communication Systems)	1:12
7	M. Tech (Computer Science & Engg.)	1:12
8	M. Tech (Power Electronics)	1:12
9	M. Tech (Power Systems)	1:12
10	Master of Business Administration	1:15

29. Is the college applying for

Accreditation: Cycle1  Cycle2  Cycle3  Cycle4

Re-Assessment:

**(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refers to re- accreditation)**

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

Cycle1:.....(dd/mm/yyyy) Accreditation Outcome/Result....  
.....

Cycle2:.....(dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle3:..... (dd/mm/yyyy)

AccreditationOutcome/Result.....

**\*Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**

31. Number of working days during the last academic year.

292 days

32. Number of teaching days during the last academic year

*(Teachingdaysmeansdaysonwhichlectureswereengagedexcludingtheexaminationdays)*

250 days

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC  
05/01/2016(dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports(AQAR) to NAAC

AQAR (i) .....(dd/mm/yyyy)

AQAR (ii) .....(dd/mm/yyyy)AQAR (iii).....

(dd/mm/yyyy)AQAR (iv) .....(dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include.

( DoNot include explanatory/descriptive information)

## **CRITERIA I: CURRICULAR ASPECTS**

### **1.1 Curriculum Planning and Implementation**

#### **1.1.1 State the Vision, Mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders**

##### **Vision**

To develop highly skilled professionals with ethics and human values

##### **Mission**

To produce competent and highly motivated engineers and management professionals

To encourage innovation and instill ethical practices

To impart quality education with industrial exposure and professional training

To exhort the spirit of professional beyond academic excellence

##### **Objectives of the Institution:**

1. The students will be guided to meet the requirements of the Industry and take up social responsibilities.
2. To develop the institution such that it attains the academic excellence in imparting professional education comparable to prime institutions.
3. The institution and the surrounding rural environment will be given a face lift.
4. The students will be encouraged in interdisciplinary activities and synergy solutions.
5. The personality of the students will be enhanced by imbibing professional, ethical and moral training.
6. Special emphasis is given on training the rural students to improve their communication skills.

##### **Communication to Students, Staff and Other Stakeholders:**

Institute takes every effort to ensure that the above objectives are communicated effectively to all the students, faculty, staff, parents, employers and regulatory authorities through:

- (a) Published
  - Principal Chamber
  - HOD Rooms
  - College Reception

- Department Staff Rooms
  - Department Notice Boards
  - College Canteen
  - Library
  - Hostels
  - Brochure
  - College Website
  - Through Electronic & Print Media
- (b) Dissemination
- Parents meet
  - Alumina Meet
  - Students, Staff and HODs meet
  - Conference and Workshops

**1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s)**

Avanthi Institute of Engineering & Technology (hence forth termed as AIET) meticulously develops action plans for effective implementation of the curriculum. At the outset, the college academic committee of the college conducts protracted meetings with the heads of various departments to develop various strategies for effective implementation of the curriculum.

Thereafter, the staff members of various teaching departments conduct their internal meetings and develop academic plans for the coming academic year. Keeping in view, the number of working days available, the syllabus is divided into units which are to be finished by a given deadline. Each Department of the college follows the academic calendar issued by the affiliating university.

Faculty are encouraged to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, computer aided tools or other means apart from regular/traditional teaching methods and develop course file. Course file which contains lesson plan, assignments, tutorials, previous question papers, lecture dairy and lecture notes is maintained by each faculty for their respective subjects allotted. These course files are reviewed on continuous basis.



Thereafter, the college plans the College Calendar as per the university academic calendar which includes the details like the topics to be taught and number of working days allocated to the respective topics, the amount of syllabus to be covered in various classes by conducting mid exams and end semester examinations and also co-circular activities. The implementation of curriculum is monitored through various means that include Student Representatives, Heads of the Departments and Principal at regular intervals.

Following is the sample academic calendar published by the affiliating university:

Grams: "TECHNOLOGY"  
Email:dapjntuk@gmail.com



Phone: 0884-2300991  
Mobile: +91 9618522555

**Directorate of Academics & Planning**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA-533003, Andhra Pradesh, INDIA**

Lr. No. JNTUK/DAP/Aca.Cal/B.Tech/IV Year/2016-17

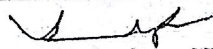
Date: 12-05-2016

**Prof. K. Padma Raju**  
**B.Tech, M.Tech, Ph.D.**  
**Professor of Electronics and Communication Engineering &**  
**Director, Academics & Planning**

**To**  
**The Principals of Affiliated Colleges,**  
**JNTUK, Kakinada**

**ACADEMIC CALENDAR FOR B.TECH 2013 BATCH**

<b>B.TECH IV YEAR I Semester</b>			
<b>Description</b>	<b>From</b>	<b>To</b>	<b>Weeks</b>
<b>Commencement of Class Work</b>	<b>27-06-2016</b>		
<b>I Unit of Instructions</b>	<b>27-06-2016</b>	<b>20-08-2016</b>	<b>8W</b>
<b>I Mid Examinations</b>	<b>22-08-2016</b>	<b>27-08-2016</b>	<b>1W</b>
<b>II Unit of Instruction</b>	<b>29-08-2016</b>	<b>22-10-2016</b>	<b>8W</b>
<b>II Mid Examinations</b>	<b>24-10-2016</b>	<b>29-10-2016</b>	<b>1W</b>
<b>Preparation &amp; Practicals</b>	<b>31-10-2016</b>	<b>05-11-2016</b>	<b>1W</b>
<b>End Examinations</b>	<b>07-11-2016</b>	<b>19-11-2016</b>	<b>2W</b>
<b>Commencement of Class Work</b>	<b>05-12-2016</b>		
<b>B.TECH IV YEAR II Semester</b>			
<b>Commencement of Class Work</b>	<b>05-12-2016</b>		
<b>I Unit of Instructions</b>	<b>05-12-2016</b>	<b>28-01-2017</b>	<b>8W</b>
<b>I Mid Examinations</b>	<b>30-01-2017</b>	<b>04-02-2017</b>	<b>1W</b>
<b>II Unit of Instruction</b>	<b>06-02-2017</b>	<b>01-04-2017</b>	<b>8W</b>
<b>II Mid Examinations</b>	<b>03-04-2017</b>	<b>08-04-2017</b>	<b>1W</b>
<b>Preparation &amp; Practicals</b>	<b>10-04-2017</b>	<b>15-04-2017</b>	<b>1W</b>
<b>End Examinations</b>	<b>17-04-2017</b>	<b>29-04-2017</b>	<b>2W</b>

  
**Director Academics and Planning**  
**JNTUK Kakinada**

Copy to the Secretary to the Hon'ble Vice Chancellor  
Copy to the Rector  
Copy to the Registrar  
Copy to the Director of Evaluation  
Copy to Director Institute of Science and Technology  
Copy to all Directors  
Copy to Principals of University Colleges of Kakinada and Vizianagaram  
Copy to Controller of Examinations, JNTUK and ACEs, JNTUK  
Copy to Principals of all Affiliated Colleges of JNTUK Kakinada

Following is a sample academic calendar developed by the institution based on the published university calendar:

**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**ACADEMIC CALANDER**

Commencement of Class Work for IV B.Tech - I Sem: 27.06.2016

Description	From	To	Weeks
<b>Commencement of Class Work</b>	<b>27.06.2016</b>		
I Unit of Instructions	27.06.2016	20.08.2016	8W
I Mid Examinations	22.08.2016	27.08.2016	1W
II Unit of Instructions	29.08.2016	22.10.2016	8W
II Mid Examinations	24.10.2016	29.10.2016	1W
Preparation & Practicals	31.10.2016	05.11.2016	1W
End Examinations	07.11.2016	19.11.2016	2W
<b>B.TECH IV YEAR II Semester</b>			
<b>Commencement of Class Work</b>	<b>05.12.2016</b>		
I Unit of Instructions	05.12.2016	28.01.2017	8W
I Mid Examinations	30.01.2017	04.02.2017	1W
II Unit of Instructions	06.02.2017	01.04.2017	8W
II Mid Examinations	03.04.2017	08.04.2017	1W
Preparation & Practicals	10.04.2017	15.04.2017	1W
End Examinations	17.04.2017	29.04.2017	2W

\* Mid examinations are to be conducted without effecting the regular class work

**IV B.Tech I Semester**

Week No	Date		No of Working Days	Reports to be submitted	Target Date
	From	To			
1	27.06.2016	02.07.2016	06	Monthly Attendance and Syllabus Completion report up to 23.07.2016 and student counselling	On or before 26.07.2016
2	04.07.2016	09.07.2016	06		
3	11.07.2017	16.07.2016	06		
4	18.07.2017	23.07.2016	06		
5	25.07.2017	30.07.2016	06	Monthly Attendance and Syllabus Completion report up to 20.08.2016 and student counselling	On or before 23.08.2016
6	01.08.2016	06.08.2016	06		
7	08.08.2016	13.08.2016	06		
8	15.08.2016	20.08.2016	05		
9	22.08.2016	27.08.2016	I - Mid & Online Examinations	Submission of Absentee statement and Result Analysis	On or Before 30.09.2016
10	29.08.2016	03.09.2016	06	Monthly Attendance and Syllabus Completion report up to 24.09.2016 and student counselling	On or before 27.09.2016
11	05.09.2016	10.09.2016	06		
12	12.09.2016	17.09.2016	06		
13	19.10.2016	24.09.2016	06		
14	26.09.2016	01.10.2016	06	Monthly Attendance and Syllabus Completion	On or before 25.10.2016
15	03.10.2016	08.10.2016	06		

16	10.10.2016	15.10.2016	06	report up to 22.10.2016 and student counselling	
17	17.10.2016	22.10.2016	06		
18	24.10.2016	29.10.2016	II - Mid & Online Examinations	Submission of Absentee statement and Result Analysis	On or Before 31.10.2016
19	31.10.2016	05.11.2016	Practical Examinations	Submission of Lab OMR's & Scripts	On or Before 07.11.2016
20	07.11.2016	19.11.2016	End Examinations		
Submission of all Academic Documents Maintained by Faculty					15.11.2017

Total No. of Working Days: 95

Expected Total No. of Periods per subject: 66

IV B.Tech-II Semester

Week No	Date		No of Working Days	Reports to be submitted	Target Date
	From	To			
1	05.12.2016	10.12.2016	06	Monthly Attendance and Syllabus Completion report up to 31.12.2016 and student counselling	On or before 03.01.2017
2	12.12.2016	17.12.2016	06		
3	19.12.2016	24.12.2016	06		
4	26.12.2016	31.12.2016	06		
5	02.01.2017	07.01.2017	06	Monthly Attendance and Syllabus Completion report up to 28.01.2017 and student counselling	On or before 31.01.2017
6	09.02.2017	12.01.2017	04		
7	13.01.2017	15.01.2017	Pongal Holidays		
	16.01.2017	21.01.2017	06		
8	23.01.2017	28.01.2017	05		
9	30.01.2017	04.02.2017	I - Mid & Online Examinations	Submission of Absentee statement and Result Analysis	On or Before 07.02.2017
10	06.02.2017	11.02.2017	06	Monthly Attendance and Syllabus Completion report up to 04.03.2017 and student counselling	On or before 07.03.2017
11	13.02.2017	18.02.2017	Two Day Technical Symposium		
12	20.02.2017	25.02.2017	05		
13	27.02.2017	04.03.2017	06		
14	06.03.2017	11.03.2017	06	Monthly Attendance and Syllabus Completion report up to 01.04.2017 and student counselling	On or before 04.04.2017
15	13.03.2017	18.03.2017	06		
16	20.03.2017	25.03.2017	06		
17	27.03.2017	01.04.2017	06		
18	03.04.2017	08.04.2017	II - Mid & Online Examinations	Submission of Absentee statement and Result Analysis	On or Before 10.04.2017
19	10.04.2017	15.04.2017	Practical Examinations	Submission of Lab OMR's & Scripts	On or Before 17.04.2017

20	17.04.2017	29.04.2017	End Examinations
Submission of all Academic Documents Maintained by Faculty			21.04.2017

Total No. of Working Days: 81

Expected Total No. of Periods per subject: 64

Following is the sample time table of EEE department with curricular and co-curricular activities:

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
TAMARAM, MAKAVARAPALEM  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
II B.TECH-II SEM(R13) EEE BRANCH TIME TABLE FOR THE ACADEMIC YEAR 2016-17  
W.E.P: 21.11.2016

DAY	1	2	3	4	12.20 - 01.00	5	6	7
	09.00-09.50	09.50-10.40	10.40-11.30	11.30-12.20		01.00-01.50	01.50-02.40	02.40-03.30
MON	EDC/EM-I LAB			PDC(T)	LUNCH BREAK	CS	EM-II	Internet
TUE	PDC	CS	EM-II(T)	CS		PS-I	STLD	SPORTS
WED	ES	CS	STLD	STLD(T)		PDC	EM-II	PS-I
THU	STLD	PS-I	Dept. Associating Meeting			EM-II	ES	LIBRARY
FRI	EM-I/EDC LAB			Counselling/ Remedial Classes		PDC	ES(T)	STLD
SAT	PS-I	STLD(T)	EM-II	EM-II		CS(T)	PDC	ES
Environmental Studies(ES)	LAKSHMI KANTHA			Electrical Machines-II(EM-II)		M V RAMANA MURTY		
Switching Theory & Logic Design(STLD)	R GANESH			Control Systems(CS)	K TEJESWARA RAO			
Pulse & Digital Circuits(PDC)	R BHARGAV			Electrical Machines-I Lab	M V RAMANA MURTY/ P VARAHALA DORA			
Power Systems-I(PS-I)	P VARAHALA DORA			Electronic Devices & Circuits Lab	P ASHOK KUMAR/ D RAHUL			
Dept. Association Meeting	T Srinivasa Rao/ M V Ramana Murty/ V Staynarayana Murty			Counselling & Remedial Classes	P Varahala Dora			
Internet	R Ganesh			Sports	K Tejeswara Rao			
Library	R Bhargav							

Dept. Time Table In-Charge

Head of the Department  
Electrical and Electronics Engineering  
HOD-EEE  
AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY  
TAMARAM, MAKAVARAPALEM  
MANGALAM ROAD, CHIRAIKURU

Following is the sample course information sheet, that was developed and initiated by faculty:

### COURSE INFORMATION SHEET

Programme: <b>B.Tech EEE Academic Year:2015-16</b>	Degree: <b>B. Tech II Year</b>
Course: <b>Electrical Machines – II</b>	Semester: <b>II</b> Credits: <b>3</b>
Course Code: <b>R13202</b> Regulation: <b>R13</b>	Course Type: <b>Core /Elective / Breadth/S&amp;H</b>

Course Area/Domain: <b>Power Engineering</b>	Contact Hours: <b>3+1</b> (Tutorial) Hours/Week.
Corresponding Lab Course Code (If Any): <b>R31027</b>	Lab Course Name: <b>Electrical Machines – II</b>

**SYLLABUS:**

UNIT	DETAILS	HOURS
I	<b>Single Phase Transformers: Types &amp; Construction details, Principle Of Operation Of Single Phase Transformers-Emf Equation - Operation On No Load And On Load – lagging, leading and Unity Power factors loads - Phasor Diagrams of transformers-Equivalent Circuit –Regulation – Losses And Efficiency - Effect Of Variations Of Frequency &amp; Supply Voltage On Iron Losses-- All Day Efficiency.</b>	15
II	<b>Single Phase Transformers Testing:</b> Test on Single Phase Transformers -OC And SC Tests - Sumpner’s Test -Separation Of Losses -Parallel Operation With Equal And Unequal Voltage Ratios - Auto Transformers-Equivalent Circuit - Comparison With Two Winding Transformers.	10
III	<b>Three Phase Transformers:</b> Polyphase Connections - Y/Y, Y/ $\Delta$ , $\Delta$ /Y, $\Delta$ / $\Delta$ And Open $\Delta$ -- Third Harmonics In Phase Voltages-Three Winding Transformers - Determination Of Zp, Zs And Zt -- Transients In Switching - Off Load And On Load Tap Changers -- Scott Connection.	8
IV	<b>3-Phase Induction Motors:</b> Construction Details Of Cage And Wound Rotor Machines-Production Of A Rotating Magnetic Field - Principle Of Operation - Rotor Emf And Rotor Frequency - Rotor Current And Pf At Standstill And During Running Conditions -Rotor Power Input, Rotor Copper Loss And Mechanical Power Developed And Their Inter Relationship-equivalent circuit – Phasor diagrams	10
V	<b>Characteristics, Starting and testing methods Of Induction Motors:</b> Torque Equation-Expressions For Maximum Torque And Starting Torque - Torque Slip Characteristic -Double Cage And Deep Bar Rotors - Crawling And Cogging- No Load And Blocked Rotor Tests- Circle Diagram For Predetermination Of Performance-Methods Of Starting And Starting Current And Torque Calculations – Induction generator operation	12
VI	<b>Design of Transformer &amp; Three – Phase Induction Motor:</b> <b>Transformer:</b> Design concepts-output equations-choice of windings-calculation of number of turns-length of mean turn of winding-calculation of resistance and leakage reactance. <b>Three Phase Induction Motor:</b> Design Concept – choice of specific electric and magnetic loadings – output equation – stator design - number of slots – conductor dimensions – type of winding – number of rotor slots – conductor dimensions	10
TOTAL HOURS		65

**TEXT/REFERENCE BOOKS:**

T/R	NAME
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1	Electrical Machines By J.B Gupta, S.K Kataria& Sons
2	Electrical Machines By D.P Kothari, I.J. Nagarath, Mc Graw Hill Publications, 4 <sup>th</sup> Edition
3	Electrical Machines By R.K. Rajput, Lakshmi Publications, fifth edition
4	Electrical Machine Design By Sawhney, Dhanpath Rai Publications.
5	Electrical Machines By smarajit Ghosh, Pearson Publications

**COURSE PRE-REQUISITES:**

C.CODE	COURSE NAME	DESCRIPTION	SEM
R21029	Electro Magnetic Fields	Field Theory	II-I

**COURSE OBJECTIVES:**

1	Appreciate the concept of operation and performance of Single-Phase Transformers
2	Understand the methods of testing of Single-Phase Transformers
3	Distinguish between Single-Phase and Three-Phase Transformers
4	Understand the concept of operation and performance of Three-Phase Induction Motor
5	Appreciate the relation between torque and slip, performance of induction motor and induction generator
6	Understand the basic concepts of design of transformers and Three-Phase Induction Motors

**COURSE OUTCOMES:**

S.NO	DESCRIPTION
1	Able to explain the operation and performance of single phase transformer
2	Able to explain the regulation and efficiency of single phase transformer
3	Able to explain types of three phase transformer connection, tap changing methods and three phase to two phase transformation
4	Able to explain the operation and performance of three phase induction motor
5	Able to analyze the torque-speed relation, performance of induction motor and induction generator
6	Able to explain design procedure for transformers and three phase induction motor

**GAPS IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS:**

SNO	DESCRIPTION	PROPOSED ACTIONS
1	Synchronous Induction Motor	Lecture By an Expert
2	Separation Of Losses In The Induction Motor Using No-Load & Blocked Rotor	Lecture By an Expert

	Tests	
3	Speed Control of Three-Phase Induction Motor	NPTEL Video

PROPOSED ACTIONS: TOPICS BEYOND SYLLABUS/ASSIGNMENT/INDUSTRY VISIT/GUEST LECTURER/NPTEL ETC

**TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:**

1	Vector Identification In Three Phase Transformers Using Clock Notation
2	Effect On 3 <sup>rd</sup> Harmonic On Transformer Operation

**WEB SOURCE REFERENCES:**

1	<a href="http://nptel.ac.in/courses/IIT-MADRAS/Electrical_Machines_II/pdf/1_7.pdf">nptel.ac.in/courses/IIT-MADRAS/Electrical_Machines_II/pdf/1_7.pdf</a>
2	<a href="http://nptel.ac.in/courses/IIT-MADRAS/Electrical_Machines_I/pdfs/1_7.pdf">nptel.ac.in/courses/IIT-MADRAS/Electrical_Machines_I/pdfs/1_7.pdf</a>

**DELIVERY/INSTRUCTIONAL METHODOLOGIES:**

<input checked="" type="checkbox"/> Chalk & Talk	<input checked="" type="checkbox"/> Stud. Assignment	<input checked="" type="checkbox"/> Web Resources	
<input type="checkbox"/> Lcd/Smart Boards	<input checked="" type="checkbox"/> Stud. Seminars	<input checked="" type="checkbox"/> Add-On Courses	

**ASSESSMENT METHODOLOGIES-DIRECT**

<input checked="" type="checkbox"/> Assignments	<input checked="" type="checkbox"/> Stud. Seminars	<input checked="" type="checkbox"/> Tests/Model Exams	<input checked="" type="checkbox"/> Univ. Examination
<input type="checkbox"/> Stud. Lab Practices	<input checked="" type="checkbox"/> Stud. Viva	<input checked="" type="checkbox"/> Mini/Major Projects	<input type="checkbox"/> Certifications
<input checked="" type="checkbox"/> Add-On Courses			<input type="checkbox"/> Others

**ASSESSMENT METHODOLOGIES-INDIRECT**

<input type="checkbox"/> Assessment Of Course Outcomes (By Feedback, Once)	<input checked="" type="checkbox"/> Student Feedback On Faculty (Twice)
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**1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and / or institutions) for effectively translating the curriculum and improving teaching practices?**

At AIET the faculty gets full support to improve their teaching practices by encouraging them to participate in FDPs, Orientation/ Refresher Courses/ Workshops/ Seminars organized by the affiliating university for effectively translating the curriculum designed and revised by the JNTU, Kakinada. The Proposals of the events shall be sent to the



university authorities to keep the information in the university website as scrolling message such that all the affiliated colleges also be aware of the developments/events and in turn they also can participate in the events.

**Faculty attended for the various National/ International Conferences/ Workshops Organized by JNTU, Kakinada**

<b>Academic Year: 2014-2015</b>			
Sri S Subrahmanya m	Two-Day Faculty Development programme in “ Engineering Mechanics” organized by the Directorate of Faculty Development JNTUK, Kakinada	Kakinada	25 <sup>th</sup> – 27 <sup>th</sup> May, 2015
Sri P Anil Kumar	Two- Day National Workshop organized under TEQIP II on “ Recent Advances in Power and Industrial Drives(RAPID-2k15), JNTUK	Kakinada	13 <sup>th</sup> -14 <sup>th</sup> March, 2015
Sri N Swaroop	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Sri V Ram Prasad	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Dr C P V N J Mohan Rao	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Sri V HariKiran	Participated in Faculty development Programme in “ Engineering Drawing” organized by the Directorate of Faculty Development, JNTUK, Kakinada	Kakinada	2 <sup>nd</sup> -5 <sup>th</sup> sept., 2014
<b>Academic Year: 2015-16</b>			
K S Subrahmanya m	Participated in Two day national level workshop on “ Fog Computing and Internet of things” organized by JNTUK university college of engineering, Vizianagaram	JNTUK, Vizianagaram	28-29 <sup>th</sup> March, 2016
V Suneetha	Participated in Two day national level workshop on “ Fog Computing and Internet of things” organized by JNTUK university college of engineering, Vizianagaram	JNTUK, Vizianagaram	28-29 <sup>th</sup> March, 2016
<b>Academic Year: 2016-2017</b>			
K Krishna	Attended “ A Two Day Workshop on Manufacturing of Advanced Materials” organized by JNTU, Kakinada	JNTUK, Kakinada	29 <sup>th</sup> -30 <sup>th</sup> Spetember, 2016
B Ramesh	Attended “ A Two Day Workshop on Manufacturing of Advanced Materials” organized by JNTU, Kakinada	JNTUK, Kakinada	29 <sup>th</sup> -30 <sup>th</sup> Spetember, 2016
P Anil Kumar	Five Days workshop on “ Trends In Power	JNTU,	08 <sup>th</sup> -12 <sup>th</sup>

	System Protection and Control” organized by JNTU Engineering College	Vizianagar am	August, 2016
K Durga Rao	Five Days workshop on “ Trends In Power System Protection and Control” organized by JNTU Engineering College	JNTU, Vizianagar am	08 <sup>th</sup> -12 <sup>th</sup> August, 2016

AIET believes in implementing the ICT (Information & Communication Technology) methods in teaching. To ensure Staff to change their traditional teaching practice and motivate them to switch over to use modern teaching aids, LCD projectors, white boards instead of black boards in the class rooms.

The Institute subscribes to various online resources like IEEEExplore and DELNET etc. Faculty are encouraged to use the above online resources along with NPTEL videos and other software and simulation tools for a creative and continuous teaching learning environment. Faculty members are also encouraged to publish research papers in various reputed journals, participate in international and national seminars, conferences, workshops and FDPs.

#### **Faculty attended for the Various National/ International Conferences/ Workshops**

<b>Academic Year: 2013 – 2014</b>			
<b>Name of the Faculty</b>	<b>National Seminar/workshop</b>	<b>Place</b>	<b>Duration</b>
T Srinivasa Rao	AICTE Sponsored Faculty Development Program (FDP) On Neural Networks, Fuzzy Systems & their applications to Electrical Engineering Organized by Department of Electrical & Electronics Engineering. GayatriVidyaParishad College of Engineering (Autonomous)	Visakhapatnam	4 <sup>th</sup> – 16 <sup>th</sup> November, 2014
ChVenkat Rao	AICTE Sponsored Faculty Development Program (FDP) On Neural Networks, Fuzzy Systems & their applications to Electrical Engineering Organized by Department of Electrical & Electronics Engineering. GayatriVidyaParishad College of Engineering (Autonomous)	Visakhapatnam	4 <sup>th</sup> – 16 <sup>th</sup> November, 2014
P Anil Kumar	AICTE Sponsored Faculty Development Program (FDP) On Neural Networks, Fuzzy Systems & their applications to Electrical Engineering Organized by Department of	Visakhapatnam	4 <sup>th</sup> – 16 <sup>th</sup> November, 2014

	Electrical & Electronics Engineering. Gayatri Vidya Parishad College of Engineering (Autonomous)		
<b>Academic Year: 2014-2015</b>			
Sri S Subrahmanyam	Two-Day Faculty Development programme in “ Engineering Mechanics” organized by the Directorate of Faculty Development JNTUK, Kakinada	Kakinada	25 <sup>th</sup> – 27 <sup>th</sup> May, 2015
Sri T Srinivasa Rao	Participated in Continuing Education Programme on Contemporary applications of control engineering in electrical engineering, AU college of engineering, Andhra University	Visakhapatnam	25 <sup>th</sup> -29 <sup>th</sup> April, 2015
Sri P Anil Kumar	Two- Day National Workshop organized under TEQIP II on “ Recent Advances in Power and Industrial Drives(RAPID-2k15), JNTUK	Kakinada	13 <sup>th</sup> -14 <sup>th</sup> March, 2015
Sri N V Ashok Kumar	Participated in 40 Hours of Professional development for the Data Base Design and Programming with SQL	Visakhapatnam	27 <sup>th</sup> May, 2015
Sri N Swaroop	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Sri V Ram Prasad	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Dr C P V N J Mohan Rao	Participated in Faculty development programme on Research Challenges and Issues in Big data and Cloud computing organized by the JNTUK	Kakinada	27 <sup>th</sup> -31 <sup>st</sup> March, 2015
Sri R Prasada Rao	Two-Day workshop on Research Methodologies organized by the GITAM Institute of Technology	Visakhapatnam	6 <sup>th</sup> -7 <sup>th</sup> March, 2015
Sri V HariKiran	Participated in Faculty development Programme in “ Engineering Drawing” organized by the Directorate of Faculty Development, JNTUK, Kakinada	Kakinada	2 <sup>nd</sup> -5 <sup>th</sup> sept., 2014
<b>Academic Year: 2015-16</b>			
All the Faculty Members	Faculty development programme conducted on “ Teaching Methodologies” organized by the Avanathi Institute of Engineering & Technology, Narsipatnam	Narsipatnam	18 <sup>th</sup> March, 2016
G BalaMurali Krishna	Participated Faculty development Programme conducted on “ Engineering drawing Concepts” organized by Chaitanya Engineering College	Visakhapatnam	6 <sup>th</sup> oct, 2015
E Govinda	Participated Faculty Development Programme Conducted on “ NPTEL Awareness Workshop” organized by GITAM University in Coordination with IIT Madras	Visakhapatnam	15 <sup>th</sup> Feb, 2016

R Prasad Rao	Short term course on “ Design & Analysis of efficient antennas and guided systems” conducted by IIT Kharaghpur	IIT, Kharaghpur	23-27 <sup>th</sup> Feb, 2016
P Ashok Kumar	Five day short term training on “ Programme on Embedded System” organized by NIT, Warangal	NIT, Warangal	26-30 <sup>th</sup> March, 2016
K S Subrahmanya m	Participated in Two day national level workshop on “ Fog Computing and Internet of things” organized by JNTUK university college of engineering, Vizianagaram	JNTUK, Vizianagaram	28-29 <sup>th</sup> March, 2016
V Suneetha	Participated in Two day national level workshop on “ Fog Computing and Internet of things” organized by JNTUK university college of engineering, Vizianagaram	JNTUK, Vizianagaram	28-29 <sup>th</sup> March, 2016
T.Srnivasa Rao	Attended “ Workshop on “Recent trends in Power Electronics for smart Grid And Electrical Drives	IIT Patna	03 <sup>rd</sup> -5 <sup>th</sup> March , 2016
P Anil Kumar	Attended “A Two Day National Workshop On Applications of Soft Computing in Electrical Engineering” organized by Dadi Institute of Engineering and Technology	Visakhapatnam	22 <sup>nd</sup> and 23 <sup>rd</sup> December 2015
<b>Academic Year: 2016-2017</b>			
P Ashok Kumar	Attended “ A One Week National Level workshop on Wireless Communications & Their Applications”	VIIT, Visakhapatnam	5 <sup>th</sup> -10 <sup>th</sup> December, 2016
S V Sudheer Kumar	Attended “ A One Week National Level workshop on Wireless Communications & Their Applications”	VIIT, Visakhapatnam	5 <sup>th</sup> -10 <sup>th</sup> December, 2016
K V N S Rama Krishna	Attended “ A Two Day Workshop on NWFFCM-2016” organized by Indian Institute of Metals Visakhapatnam Chapter	Visakhapatnam	16 <sup>th</sup> & 17 <sup>th</sup> September, 2016
V Hari Kiran	Attended “ A Two Day Workshop on NWFFCM-2016” organized by Indian Institute of Metals Visakhapatnam Chapter	Visakhapatnam	16 <sup>th</sup> & 17 <sup>th</sup> September, 2016
K Krishna	Attended “ A Two Day Workshop on Manufacturing of Advanced Materials” organized by JNTU, Kakinada	JNTUK, Kakinada	29 <sup>th</sup> -30 <sup>th</sup> Spetember, 2016
B Ramesh	Attended “ A Two Day Workshop on Manufacturing of Advanced Materials” organized by JNTU, Kakinada	JNTUK, Kakinada	29 <sup>th</sup> -30 <sup>th</sup> Spetember, 2016
P Anil Kumar	Five Days workshop on “ Trends In Power System Protection and Control” organized by JNTU Engineering College	JNTU, Vizianagar	08 <sup>th</sup> -12 <sup>th</sup> August, 2016
K Durga Rao	Five Days workshop on “ Trends In Power System Protection and Control” organized by JNTU Engineering College	JNTU, Vizianagar	08 <sup>th</sup> -12 <sup>th</sup> August, 2016

#### **1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the curriculum provided by the affiliating University or other statutory agency**

The institution is making special efforts for the professional development of its faculty to facilitate effective curriculum delivery by following means:

- At the beginning of the Semester detailed course files were prepared by the faculty for the subject allotted to them. The following are the contents in the course file:

##### **Part-I**

- Syllabus
- Course Objectives, Course Outcomes
- Mapping onto PEO & PO
- Model Lesson Plan
- Lecture notes
- OHP/LCD Sheets/CDs
- University question papers
- Internal Question Papers with key
- Assignment Topics
- Tutorial Sheets
- Unit wise-Question Bank
- Gaps & Plans for Add-on programs
- Topics beyond Syllabus-References
- Result Analysis, Remedial/Corrective Action
- Learning Outcome Assessment, Mapping onto PO

##### **Part-II**

- Lesson Plan, Time Table
- Teacher Log Book/ Attendance Register
- Daily Delivery Recording
- Continuous Evaluation-Marks (Tests, Assignments etc)
- Sample Answer Sheets (of Test Papers)

- Sample Assignment Sheets
  - Record of Tutorial Classes
  - Record of Remedial Classes
  - Makeup Tests
  - Guest Lecturers Conducted
  - Details of Add-on Programs
- 
- The teacher diaries are verified by the Head of the department and the principal once in a month will verify the syllabus coverage and teaching schedules so that curriculum delivered effectively.
  - A sample syllabus coverage report is shown below:



**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
TAMARAM, MAKAVARAPALEM

SYLLABUS COVERAGE MONITORING						DEPARTMENT OF EEE	
ACADEMIC YEAR: 2015-16		SEMESTER: I		CLASS: IV B.TECH EEE		DATE: 08-08-2015	
S.No	Subject Name	Faculty Name	No. of Units to be Completed	No. of Units Completed	No. of Classes taken	No. of Extra Classes Required	Faculty Sign.
1	Computer Organization(CO)	K Vara Prasad	2 units	2 units completed	16	-	K.V.Prasad
2	High Voltage Engineering(HVE)	D K A S Prasad	2 units	1 unit completed 2 unit running	18	04	D.K.A.S.
3	Switch Gear & Protection(SGP)	T Srinivasa Rao	2 units	1 unit completed 2nd unit running	16	02	T.S.Rao
4	Power System Operation & Control(PSOC)	P Anil Kumar	2 units	1st unit completed 2nd unit running	16	03	P.Anil Kumar
5	Electrical Distribution Systems(EDS)	G Raja Sekhar Yadav	2 units	2 units completed	18	-	G.R.Sekhar
6	Instrumentation(INSTR.)	R Bhargav	2 units	2 units completed	18	-	R.Bhargava
7	Electrical Simulation Lab	G Raja Sekhar Yadav	4 experiments	3 experiments	12	3	G.R.Sekhar
8	MP & MC Lab	Ch V Sri devi	4 experiments completed	3 experiments completed	12	3	Ch.V.Sridevi

**HEAD OF THE DEPARTMENT**  
Head of the Department  
Electrical & Electronics Engineering  
AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY  
Tamaram, Makavarapalem  
Narsipatnam Revenue Division  
VISAKHAPATNAM Dist. - 531 113

**PRINCIPAL**  
Principal  
Avanathi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District

- Modern teaching aids are available to the faculty (LCD Projectors, Internet/Wi-Fi, Seminar Halls etc.) as part of the respective department resources.
- Seminars and workshops are organized by the departments to increase the technical skills of the students.
- Frequent industrial visits are arranged to industries to provide practical exposure to the students on the subjects of curriculum.
- Faculty members prepare lab manuals for the courses as prescribed by the university to conduct in the laboratory and also additional experiments are added to make the students understand the concepts easily.

**1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?**

Each department has an advisory committee consisting of eminent academicians and industry experts to guide the effective operationalization of the departmental activity. Periodic meetings are being conducted, inputs are taken into consideration and plans are being proposed for effective content delivery. The committee members help the department to identify suitable industry experts from research bodies to suit to the requirements of the department time to time.

**Industry:**

- 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 with the students.
- The students of various departments of the college are taken for industrial visits from time to time to keep them abreast of the latest developments in the market.

**CRT Training Course(OMEGA Career Solutions) offered to the III B.Tech students in addition to JNTU curriculum**

<b>APTITUDE</b>					
<b>Arithmetic</b>	Ratio and proportion	<b>Logical Learning</b>	Number series	<b>Verbal Ability</b>	Spotting Errors
	Problems on ages		Letter series		Sentence Improvement
	Percentages		Coding & Decoding		Jumbled Sentences
	profit & loss		Cubes & Dices		Reading Comprehension
	Partnership		Direction Sense		Tenses
	Number system		Seating Arrangements		Vocabulary
	GCD & LCM		Blood relations		
	Averages & Mixtures		Time sequencing & Ranking		
	Time & Work		Deductions		



	Time & Distance		Logical connectives		
	Problems on Trains, races, Boats& Streams		Analytical Puzzles		
	Mensuration		Non-Verbal		
	Simple Interest & Compound		Binary logic		
	Interest		Number Analysis		
	Data Interpretation		Alphanumeric		
	Data Sufficiency				
	Permutation & Combinations				
	Probability				
<b>SOFT SKILLS</b>					
Resume Preparation			JAM Sessions		
Group Discussion			Interview Skills		

### **Research Bodies:**

- To keep the research activities alive in the campus the faculty members of the college are also motivated to take up research. Faculty members of their own also keep on interacting with various research bodies and participate in various research projects.
- Some of the faculty members being a member of the professional bodies like IETE, ISTE, IEI and CSI, attend the conferences which in turn help them in better curriculum delivery.

### **University:**

- The faculty members of the college keep regularly in touch with their counter parts at the affiliating university and get latest information regarding their own respective subjects. They keep on visiting the affiliating university time to time to keep themselves abreast of the latest trends in their field of study.
- Further, Professors from the parent university campus are also invited to the college time to time to give seminars and talk to the faculty members.

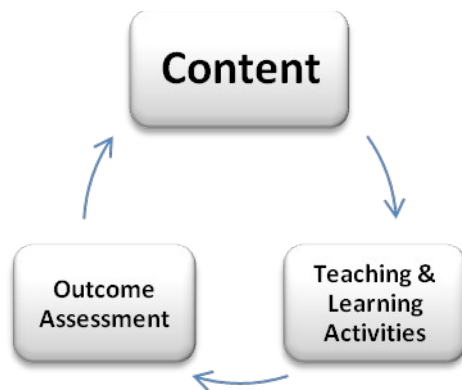
**1.1.6 What are the contributions of the institution and/ or its staff members to the development of the curriculum by the University? (Number of staff members/ departments represented on the Board of studies, student feedback, teacher feedback, stakeholder feed provided, specific suggestions etc.**

- Although the college is following the syllabus as prescribed by the JNT University, Kakinada to which AIET is affiliated, the Heads of the college and departments are allowed to give the suggestions and updates while preparing the curriculum.
- Feedback from stakeholders like exit students, Alumni, Parents, Industry are taken by faculty and assessed by the college academic committee. Based on the assessment, the Heads of the college are allowed to give the suggestions and updates while preparing the curriculum.
- The affiliating university, JNTUK revises the syllabus every two years. They invite suggestions/opinions of the senior faculty working in affiliated colleges also. AIET make use of the opportunities and convey the ideas to the respective Chairman, BOS .

**1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘Yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed.**

All the customized trainings provided to students in addition to the university syllabus is framed internally considering the student requirements. Some trainings are conducted internally and other were given to the external experts.

**1.1.8 How does institution analyze/ ensure that the stated objectives of curriculum are achieved in the course of implementation?**



- All the academic programs curriculum developed by the University are implemented by the concern faculty by stating the course objective and outcomes to the students
- Teaching plans are prepared by individual teachers for the subjects they are handling, including the labs within the ambit of the academic schedule. The academic schedule is strictly followed as per the Academic Calendar.
- Detailed course files are prepared by the faculty which includes teaching material, PPT slides, unit wise question bank, assignment questions, result analysis, lesson plan, time table, missing topics and material of content beyond syllabus, Mid Examination question papers with key.
- The progress of syllabus coverage is monitored periodically at various levels.
- Meetings of Class Representative Committee members is held by the Head of the Department to review the teaching learning process periodically and remedial measures are taken if necessary.
- Periodical feedback is obtained from the students on aspects of teaching-learning.
- Regular feedback is taken from all the stake holders such as the employers, alumni, parents, students and media reports to assess the extent to which the Program Objectives are met
- Based on the assessment of feedback from various stakeholders, placements, higher studies the curriculum is strengthened by adding topics beyond syllabus, additional experiments, workshops and Guest lectures in the curriculum to meet the stated objectives by the important bodies of the institute such as academic committees .

A sample feedback form to assess the student outcome is shown below:

**ASSESSMENT OF LEARNING OUTCOMES FOR SUBJECT**

**‘ELECTRICAL MACHINES - II’**

CAY : 2014-15	SEM : <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	Date :
SUBJECT	ELECTRICAL MACHINES – II	Year : <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV
FACULTY		

CAY: CURRENT ACADEMIC YEAR

**SEPECIFIED LEARNING OUTCOMES FOR SUBJECT – ‘ELECTRICAL MACHINES-II’**

- 1) Able to explain the operation and performance of single phase transformer
- 2) Able to explain the regulation and efficiency of single phase transformer
- 3) Able to explain types of three phase transformer connection, tap changing methods and three phase to two phase transformation
- 4) Able to explain the operation and performance of three phase induction motor
- 5) Able to analyze the torque-speed relation, performance of induction motor and induction generator
- 6) Able to explain design procedure for transformers and three phase induction motor

**Please evaluate on the following Scale:**

Excellent(E)	Good(G)	Average(A)	Poor(P)	No Comment(NC)
5	4	3	2	1

SNO	QUESTIONAIRE	E	G	A	P	NC
		5	4	3	2	1
<b>GENERAL OBJECTIVES:</b>						
1)	Have you understand the concept of operation and performance of Single-Phase Transformers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2)	Have you understand the methods of testing of Single-Phase Transformers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3)	Have you understand the difference between Single-Phase and Three – Phase Transformers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4)	Have you understand the concept of operation and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	performance of Three-Phase Induction Motor	
5)	Have you understand the relation between torque and slip, performance of induction motor and induction generator	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6)	Have you Understand the basic concepts of design of transformers and Three-Phase Induction Motors	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>SPECIFIC LEARNING OUTCOMES:</b>		
7)	Are you able to explain the Operation and Performance of Single Phase Transformer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
8)	Are you able to explain the Regulation and Efficiency of single phase transformer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
9)	Are you able explain types of Three-Phase Transformer connection, tap changing methods and Three phase to Two Phase Transformation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
10)	Are you able to explain the operation and Performance of Three – Phase Induction Motor	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
11)	Are you able analyze the Torque-Speed relation, Performance of Induction Motor and Induction Generator	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
12)	Are you able explain design procedure for Transformers and Three Phase Induction Motor	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**Course Learning Outcomes Assessment from Feedback for Electrical Machines – II(2014-15):**

	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>5 Point Scale</b>	3	3	4	3	4	4

**Course Learning Outcomes Assessment from Subject Result (Electrical Machines – II):74.2%**

**1.2 Academic Flexibility**

**1.2.1 Specifying the goals and objectives give details of the certificate/ diploma/ skill development courses etc., offered by the institution**

No, the college does not provide any certificate/ diploma courses for skill development

**1.2.2 Does the institution offer programmes that facilitate twinning/ dual degree? If ‘Yes’, give details**

No, the college does not offer such programmes

**1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic flexibility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:**

- **Range of core/ elective options offered by the university and those opted by the college**
- **Choice based credit system and range of subject options**
- **Courses offered in modular form**
- **Credit transfer and accumulation facility**
- **Lateral and vertical mobility within and across programmes and courses**
- **Enrichment courses**

The College is affiliated to JNTUK and follows the curriculum and syllabus of the University. Every programme has a curriculum comprising of both theory and practical courses with well defined syllabi. There are certain minimum number of core courses and sufficient number of elective courses to be opted by the students.

**Core Options:**

<b>Branch</b>	<b>No. of Core options</b>
CSE	24
ECE	23
EEE	21
MECH	24
M.Tech (CSE)	10
M.Tech (DECS)	8
M.Tech(VLSI)	8
M.Tech(PE)	9
M.Tech(PS)	9
MBA	24

**Elective Options:**

This aspect of offering elective options is inbuilt in the syllabus itself. The students have

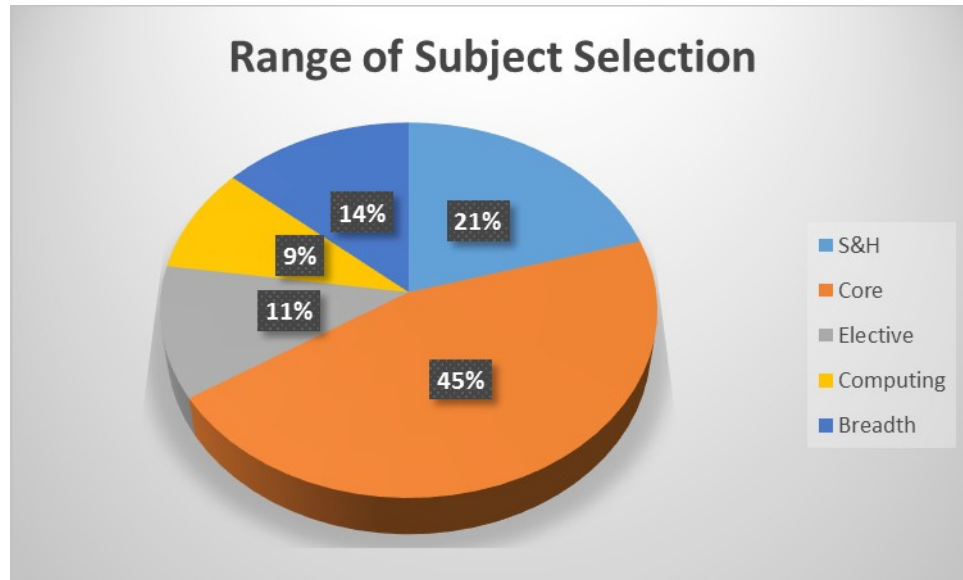
the option in the open category to choose electives suggested in the syllabus. The electives can be chosen at the 3<sup>rd</sup> and 4th year level. Similarly the students have the option in branch specialization category to choose electives suggested in the syllabus. Different Electives are offered at PG level, differently for each P.G. course

Branch	No of Electives				
	Open Elective	Elective – I	Elective – II	Elective – III	Elective - IV
CSE	4	5	5	5	5
ECE	3	5	5	5	5
EEE	4	3	3	3	3
MECH	2	4	4	4	4
MBA	--	4	4	4	4
M.Tech (PE)	--	2	2	2	--
M.Tech(PS)	--	2	2	2	--
M.Tech (CSE)	--	4	4	--	--
M.Tech(DECS)	--	2	2	2	--
M.Tech (VLSI)	--	2	2	2	2

### **Choice based credit system and range of subject selection**

The university offers 208 credits and every student must get 200 credits for the award of the degree.

Range of Subject Selection for UG – ECE Course



#### **Courses offered in modular Form:**

Courses are provided unit wise and are arranged in the modular form at department level by academic committees comprising of HOD's, Faculty and Principal. The modules so arranged are also used for testing the students in the exams, (1st MID, 2nd MID and Special tests).

Some courses such as Electrical Machines etc. are divided and taught over multiple semester.

**Credit transfer and accumulation facility:** No

#### **Lateral and vertical mobility within and across programmes and courses**

- As per the university norms the Engineering course structure has provision for lateral mobility in the programme. Students who qualified in ECET can seek admission into the second year of under graduate courses directly
- As per the university norms the Engineering course structure has no provision for vertical mobility in the programme.

#### **Enrichment Courses**

- The existing courses are enriched by preparing the students to design small



- projects and presentations related to theory work.
- Additional lectures by the experts are also organized time to time to update the knowledge of our students.
- Two day workshops on advanced concepts/ technologies are organized frequently to update the students towards latest trends of their specialization.

**1.2.4 Does the institution offer self-financed programmes? If ‘Yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

The college is a self-financing institution and offers all programmes that are self-financed only and are approved by the AICTE, New Delhi and affiliating University JNTU, Kakinada

**1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘Yes”, provide details of such programme and the beneficiaries.**

**Yes,**

The following specific programs are organized in the departments, besides adding additional contents to some of the individual subjects to enhance the skills of the students

- Soft skill development programs
- Quantitative, Logical and Analytical skill development program
- Computer based skill development programs.
- Campus Connect program - Infosys
- Value added courses in core areas
- Workshops
- Seminars
- Conferences
- Expert lectures
- Extension lectures
- Industrial training and Industrial tours
- Design projects.
- Industry oriented projects.

**1.2.6 Does the university provide for the flexibility of combining the conventional face-to-face distance mode of education for students to choose the courses/ combination of their choice” if ‘Yes”, how does the institution take advantage of such provision for the benefit of students?**

No, the university does not allow the flexibility of combining conventional face to face and distance mode of education.

### 1.3 Curriculum Enrichment

#### 1.3.1 Describe the efforts made by the institution to supplement the University's curriculum to ensure that the academic programmes and institutions's goals and objectives are integrated?

The college makes every effort to supplement the curriculum of the University to ensure that the college goals and objectives are met. To face the current trends in competitive areas the institute has evolved additional inputs in the syllabi. Additional Laboratory experiments have been included in lab courses apart from curriculum to enrich the student's practical knowledge and skill base.

To make up any deficiencies, the college supplements the university's curriculum by imparting special courses like Personality Development, Campus Recruitment Training, Soft and Communication Skills training to succeed in campus interviews conducted by various companies.

And also the Institute encourages the faculty and students to use online resources like IEEEExplore, DELNET, NPTEL lectures and simulation software to improve their learning and research skills. Subjects are not having regular lab practices can be performed in the labs for basic analysis by using software tools.

#### Topics Beyond Syllabus:

Programme	No. of Topics beyond syllabus
UG ECE	39
UG CSE	36
UG EEE	33
UG MECH	36

**The following are the sample topics beyond Syllabus:**

- I. Subject: Electrical Circuit Analysis-I(I B.Tech- I Sem EEE)**
  1. Filters & Attenuators
  2. Fundamentals of PSPICE Applications in Electrical Circuit Analysis
- II. Subject: Thermal & Hydro Prime Movers (II B.Tech – I Sem EEE)**
  1. Computational Fluid Mechanics
  2. Dimensional Analysis
- III. Subject: Electrical Machines –I ( II B.Tech – I Sem EEE)**
  1. Special machine like servo, reluctance and universal motors
  2. Cross-field generators: Amplidynes, Rototrol for industrial applications
  3. Rogenberg generators used in Railway

**Additional Experiments:**

Programme	No. of Additional Experiments
UG ECE	22
UG CSE	23
UG EEE	22
UG MECH	20

**The following are the list of Additional Experiments from Electrical Labs:**

S. No	Name of the Lab	Additional Experiments
1	Electronic Devices & Circuits Lab	<ol style="list-style-type: none"> <li>1. Series voltage regulator</li> <li>2. Shunt voltage regulator</li> <li>3. Bridge rectifier</li> </ol>
2	FM & HM Lab	<ol style="list-style-type: none"> <li>1. Verification of Bernoullies Equation</li> <li>2. Finding VienaContracta</li> </ol>
3	Electrical Machines – I Lab	<ol style="list-style-type: none"> <li>1. Ward – Leonard system of speed control of DC Separately Excited Motor.</li> <li>2. Starting of a 5 HP 240V DC motor with a three-step resistance starter Using MATLAB/SIMULINK.</li> </ol>
4	Electrical Circuits Lab	<ol style="list-style-type: none"> <li>1. Time response of 1<sup>st</sup> order systems</li> <li>2. Determination of form – factor of a non – sinusoidal waveform</li> </ol>
5	Electrical Machines – II Lab	<ol style="list-style-type: none"> <li>1. Separation of no-load losses on three phase induction motor.</li> <li>2. Synchronization of three – phase alternators</li> </ol>
6	Control Systems Lab	<ol style="list-style-type: none"> <li>1. Time response of second order system using MATLAB</li> </ol>

		2. Steady-State response of Single – Area Isolated Power System using Using MATLAB/SIMULINK
7	Power Electronics Lab	1. Speed control of AC motor using three – phase AC voltage controller 2. Three phase fully controlled bridge converter with R, RL & Motor Loads.
8	Electrical Measurements Lab	1. Measurement of parameters of a choke coil by 3 voltmeter & 3 – Ammeter method. 2. Calibration of dynamometer power factor meter
9	Microprocessors & Microcontrollers Lab	1. Factorial of a given number 2. String is a palindrome or not 3. Average of two temperatures
10	Electrical Simulation Lab	1. PSPICE simulation of single Phase Cycloconverter 2. Plotting the JFET characteristics using PSPICE.

**List of Expert Lectures organized by the Institution:**

S. No	Name of the Resource Person/ Organization	Name of the Program	Dates
<b>2015-16</b>			
1	Sri J.Satyanarayana I.A.S Advisor,IT,Govt.of Andhra Pradesh. Sri. Adapa Raja suresh Kumar Founder &CEO,Synchroserve Global Solutions Pvt.Ltd.Hyd.	Future Challenges in IT and Skill Development	6-10-2015
2	Sri M.Srikanth National Head Academy of Robotics	Two days workshop on Robotics and embedded systems	16 <sup>th</sup> to 17 <sup>th</sup> Oct 2015
3	Prof M LSai Kumar, Professor, PGDM Co- ordinator	Faculty development programme on “ Teaching Methodologies”	18 <sup>th</sup> March, 2016
4	Prof MadhuMutyam	Delivered Lecture on “ Layered Computer Design”	12-13 <sup>th</sup> March, 2016
5	Prof K Naga raju, Vice President, ANRAK Aluminum Limited	Delivered Lecture on “ Material Management”	12-13 <sup>th</sup> March, 2016
6	Prof M BangaruBabu, NIT Warangal	Delivered Lecture on “ Heat Transfer and Thermal Engineering –Applications in Industry and Project	12-13 <sup>th</sup> March, 2016

		management”	
7	M.VenkataRatnam, Scientific officer H, BARC	Delivered lecture on “ Overhead Transmission Systems”	12-13 <sup>th</sup> March, 2016
8	Prof.Jayantha Pal, IIT Khargpur	Delivered lecture on “ Model order reduction and Genetic Algorithm”	12-13 <sup>th</sup> March, 2016
<b>2014-15</b>			
1	Sri Rayaprolu S.S Sarma Head Virtusa,Hyd	Career Opportunities	13-02-2015
2	Dr .M Laxminarayana Scinetist’H’,DLRL&ViceChairman,IEEEHyd Section	Future Challenges in Military and Role of DLRL	14-02-2015
3.	Sri T.Vasudeva Rao Head, Startup Village, Visakhapatnam	How to start SSI unit, general & financial aspects of SSI, Salient futures of project report	14-02-2015
4.	Sri Narendra Nerla Vice President,Inspire Edge IT Solutions,VSP	Future Challenges in IT and Skill Development	14-02-2015
<b>2013-14</b>			
1	Sri S.SURYA Shankar,DGM(Telecom) Visakhapatnam Steel Plant	Career Opportunities in BSNL	5-04-2014
2	Sri K srinivasa Rao Div.Manager(Lines) APTRANSCO,Kalpaka	Career Opportunities in APTRANSCO	5-04-2014
3	Sri N Rajesh Group Head(Enterprise Marketing) Miracle Software systems	Historical background to Indian values entrepreneurship in the present scenario	5-04-2014
4	Sri M Prasad Sr.DGM(E&I),ANRAK,Makavarapalem	Career Opportunities	4-04-2014
5	Sri K Ajay AssociateVice- President,ANRAK,Makavarapalem	Career Opportunities	4-04-2014
<b>2012-13</b>			
1	Mr. Abraham Vergheese,Scientist-F, NSTL, Visakhapatnam	Enterprenincial oriented programme	22-03-2013
2.	Mr. K. Veeru Naidu, TCS, Hyd	Career Opportunities	22-03-2013

**1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

The college strictly adheres to the syllabus designed by JNTUK but while delivering this syllabus content to the students, our faculty enrich it with their own expertise and experience so that the students also gain employable qualities that enable them get jobs in this highly competitive world.

The training and placement cell of the college regularly interacts with the HR managers of reputed companies and collects first hand information about the demands and expectations of the corporate sector regarding skill set of students. These demands of the companies are then communicated to the feedback committee which in turn formulates add on courses and extra classes which are then conducted to make up the deficiencies in the students to make them employable.

The task of framing of curriculum of the college, as stated earlier, is in the hands of its parent affiliating institution i.e. Jawaharlal Nehru Technological University, Kakinada. The institution can only enrich and organize the curriculum by supplementing it with additional courses so that the students are benefited in the best possible manner.

The institution has taken measures to cater to the global market needs based on the true assessment of strengths and services offered in the campus. To develop the required skills, brainstorming sessions are held for the faculty to design the tools in the areas of Technology, use of computers and providing in-depth knowledge in the respective subjects. Under the guidance of various committees, special training and tailor made orientations are conducted to enable the students to achieve the global standards. As a part of encouraging the students towards enhancement of technical skills Technical workshops are conducted and students are practically trained to prepare working models as per the theme of the workshop. The themes of the best models will be sent to the reputed organizations for further applications and developments of the projects.

Computers, Internet and other advanced technologies are used whenever necessary to improve teaching – learning process. Computer labs are well equipped with latest computers. Internet facility is made available at the library. Computers, LCD Projectors are being used for effective communication and teaching. All graduation courses involve

computer related papers viz., C Programming, IT Workshop to enable the students to get familiar with programming and internet technologies.

**LIST OF INHOUSE TRAINING PROGRAMS CONDUCTED**

<b>Academic Year</b>	<b>No of Programs</b>	<b>NAME OF THE AGENCY</b>	<b>DATE</b>
<b>2015-16</b>	<b>4</b>	Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	<b>29-09-2015</b>
		IBM-blue MIX technologies. IBM. Hyderabad	<b>29-09-2015</b>
		Soft Skills , Group Discussion & Personal Development.SeniorTrainer.JKC.Hyderabad	<b>30-09-2015,01-10-2015</b>
		CRT Classes by OMEGA Career Solutions. Hyderabad	<b>August 2015 to Dec, 2015</b>
<b>2014-15</b>	<b>4</b>	Globarena -Hyderabad(JNTUK Partner)	<b>Aug 2014-Dec 2014</b>
		CRT Classes by OMEGA Career Solutions. Hyderabad	<b>July 2014 to Feb 2015</b>
		Soft Skills , Group Discussion & Personal Development.SeniorTrainer.JKC.Hyderabad	<b>9-09-2014 to 10-09-2014</b>
		IBM-DB2 Workshop by JKC.Hyderabad	<b>12-12-2014 to 13-12-2014</b>
<b>2013-14</b>	<b>3</b>	IBM Worklight by IT Associate.JKC	<b>29-03-2014</b>
		Globarena -Hyderabad(JNTUK Partner)	<b>Sep 2013 to Jan 2014</b>
		Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	<b>Aug 2013- Sep 2013</b>

**1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

The cross cutting issues like Gender, Climate Change, Environment Education, Human Rights, ICT etc, find an ample space when it comes to applying them positively into the curriculum.

**Gender**

- No discrimination of students in the class rooms and in Labs, particularly for girl students some motivational and encouragement classes are being conducted by women technical experts for further active involvement in the fields of hard engineering aspects.

**Environmental Education**

- The subject “Environmental Science” is included as part of the curriculum. It is compulsory for all the students, irrespective of any stream, to clear the paper of environment.
- The college also conducts workshops Environmental education where experts from the fields are invited to share and deliver their experiences and knowledge

**Human Rights**

Every December 10<sup>th</sup> is celebrated as International Human Rights Day to induce the young minds about Human Rights and consequences of their violations. As a part of NSS the college conducts various programs on Human Rights to provide awareness among students

- Anti ragging awareness program
- Communication Act Awareness program
- Voters day program,
- Community Service
- Cyber laws/ IT Act
- Intellectual Property Rights/ Patents

**ICT**



- e-learning provision is provided to the staff and students through website.
- Staff rooms are facilitated with computers and Internet.
- College is Providing on line NPTEL video material
- College is conducting Subject Expert webinars
- College is maintaining a data base of objective questions of all courses and used for conducting online examinations. Students can check his level in each course.
- Development and deploying of events in college web site

#### **1.3.4 What are the various value-added courses/ enrichment programmes offered to ensure holistic development of students?**

- **Moral and ethical values**
- **Employable and life skills**
- **Better career options**
- **Community orientation**

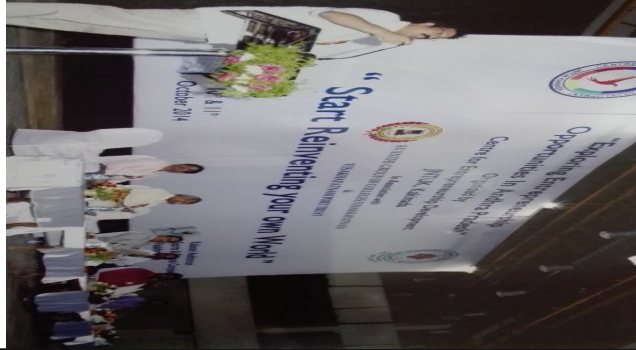
##### **Moral and Ethical values**

In order to ensure holistic development of the students, JNTUK has incorporated “Professional Ethics and Morals” into the curriculum. The institute itself has conducted many programmes in association with other organizations to make our students better citizens. As a part of behavioral, attitude, personality, intellectual etc., developments of the students experts talks shall be conducted by the spiritual teachers.

##### **Employable and life skills**

To enhance the employability and life skills of the student’s community as per the needs and requirements of present industry, various departments are working through various activities in the institute.

- We encourage the students to train for Internship Programmes in the Industry’s.
- Training Program on soft skills
- Training program on Quantitative Aptitude, Logic and Analytic skills
- Personality Development Programs
- Entrepreneurship Development program
- Workshops on Emerging Technologies



**“EXPLORING ENTREPRENEURSHIP OPPORTUNITIES IN ANDHRA PRADESH”**  
 Organized by Centre for Entrepreneurship Development JNTUK, Kakinada in Association with  
 AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY Conducted on 10<sup>th</sup>&11<sup>th</sup>  
 October, 2014



**“ A SEMINAR ON FUTURE CHALLENGES IN IT AND SKILL DEVELOPMEN”** Organized  
 on 6<sup>th</sup> October, 2015



### **Better career options**

- The college understands that the need of communication skills is vital for the students for better career options. Therefore the institution arranges Verbal and Written Communication Skills, workshops, Group discussions, mock interviews etc., at regular intervals.
- It is a regular practice of the institution to invite expert resource persons to conduct workshops on the development of communication competence among the students.
- Students are also allotted the different responsibilities in organizing various events and activities such as cultural programmes, competitions, seminars, workshops etc. In this way they improve their team building and organizational skills.
- We provide the special coaching classes for GATE, GRE, TOEFEL, CAT as part of carrier development.

### **Community orientation**

The college has an NSS team which regularly visits surrounding areas and villages where people are provided awareness on various social, moral, ethical principles and ways of life. NSS team of the college participates in community services/development activities like

- Blood donation programs
- Health awareness programs
- Tree plantation
- Community Service
- Awareness programs on Cash-Less Transactions
- Safety and secure maintenance of home appliances
- Swatch - Bharath

**1.3.5 Citing a few examples enumerate to the extent of use of the feedback from stakeholders in enriching the curriculum?**

The institution has various channels to collect and document responses on curriculum from the stakeholders. Students express their opinion on curriculum through response sheets. Oral responses are also considered. Special formats are used for alumni and parents to register their views during interactive meetings.

The Departmental committee analyses feedback and prepares response chart for future use. The Principal, being the head of the institution is responsible for collecting feedback from different stake holders through periodic meetings. The Principal office will then process and submit the analysis report and present it to the college academic committee. The Principal reviews the analysis reports and initiates interventions.

The teachers collect the exit level feedback from the graduates regarding learning processes after the end of each semester. The inputs are obtained from the stake holders regularly and further used to improvise the overall competency of the students for employability.

**Example enumerating the Feedback process**

**Analysis form of Exit Feedback**

**FINAL YEAR STUDENTS – EXIT FEEDBACK**

CAY :	BATCH:	Date :
PROGRAM		
Optional	Name:	RegNo:

SNO	E	G	A	P	NC	Yours Comments...
	5	4	3	2	1	
PEO 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PEO 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PEO 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PEO 4	□□□□□	
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**PROGRAM EDUCATIONAL OBJECTIVES:** Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve [ABET].

*Departments have the following stated program educational objectives:*

**PEO 1:** Graduates will have demonstrated a thorough grounding in the fundamental principles of Basic Sciences, English, other Engineering disciplines, Electrical Engineering Subjects and practices of Computer Science.

**PEO 2:** Graduates will have undertaken complex problems and developed appropriate technical solutions.

**PEO 3:** Graduates will be prepared to communicate and work effectively on team based engineering projects and will practise the ethics of their profession consistent with a sense of social responsibility.

**PEO4:** Graduates will have demonstrated exposure to emerging and modern technologies to succeed in engineering position in various agencies and also pursuit advanced degrees in engineering.

***PLEASE ASSESS WHETHER THE OBJECTIVES HAVE BEEN ACHIEVED & LEVEL OF ACHIEVEMENT***

**Program Outcomes:** Program outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behaviours that students acquire in their matriculation through the program [ABET].

*Please assess whether the following program outcomes have been achieved during your studies and the level of achieving the same:*

PO		E G A P NC
----	--	------------

		4	3	2	1	1
PO:a	an ability to apply knowledge of Mathematics, Science and Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:b	an ability to design and conduct experiments, as well as to analyze and interpret data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:c	an ability to design a system, component or process to meet desired needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:d	an ability to function on multidisciplinary teams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:e	an ability to identify, formulate, and solve engineering problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:f	an understanding of professional and ethical responsibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:g	an ability to communicate effectively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:h	the broad education necessary to understand the impact of engineering solutions in a global and societal context	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:i	a recognition of the need for, and an ability to engage in life-long learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:j	a knowledge of contemporary issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:k	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:l	Ability to develop Electrical applications and industry based projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Rubrics defined for analysis of the feedback:**

- The feedback is collected from the stakeholders on a 5 point scale .
- The percentage allotted for each PEO is calculated and the assessment is made as excellent, good and average.

S.No	Percentage obtained	Assessment
1.	Above 80%	Excellent

2.	79% to 60 %	Good
3.	59 % to 40 %	Average
4.	Below 40%	Fair

Formula for calculating the percentages

$$\text{Percentage} = \frac{\text{Total no. of points obtained by 5 point scale}}{5 * \text{total participated in survey}} * 100$$

Based on the analysis of the Feedback forms following are the corrective measures taken

**Corrective measures:**

- Counseling the faculty who scored less than 3.5 points on 5 -point scale.
- Sponsoring for refreshment courses to improve the subject knowledge.
- Organizing workshops on teaching methodologies / micro-teaching.
- Arranging specialized lectures by eminent faculty.
- Making available of E-lectures in the department libraries.

**1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?**

The institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it. The feedback in the form of interactions, discussions and suggestions is analyzed by a specially constituted committee and report is submitted to the head of the Department. A departmental committee of five experienced faculty members is constituted to monitor and evaluate the efficiency and success of these enrichment programs. This committee meets the Principal from time to time and amends the enrichment programs to meet the desired objectives. The quality of the academic curriculum shall be obtained by adapting quality teaching learning process, transparent evaluation of the exam papers, setting of question papers etc.

The Institution makes sure that the programmes offered in the curriculum include contribution to national development, fostering global competencies among students, inculcating a value system among students, promoting the use of technology and quest for excellence. The College's efforts to ensure that the curriculum bears a thrust on these core values include the initiative for Contribution to national development. The college uses education as the tool for empowering women and through the curriculum it has adopted, it seeks to address the all round development of the students enrolled in the various academic programs it offers.

**Example enumerating the Feedback process**

**Analysis form of Employer/Vendor**

**FEEDBACK – EMPLOYER/VENDOR**

a) Name of the Organization :

b) Name of the Officer and Designation :

c) Name of the Employee :

d) Please provide your comments on the following:

1. Performance of the staff	Excellent	Good	Average	Fair
2. Technical Skills	Excellent	Good	Average	Fair
3. Attitude	Excellent	Good	Average	Fair
4. Interpersonal Skills	Excellent	Good	Average	Fair
5. Passion for Growth	Excellent	Good	Average	Fair

e) Would you like to consider our students for future employment: Yes/No.

f) What are your advices for further improvements on our candidates?

g). **PROGRAM EDUCATIONAL OBJECTIVES:** Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve [ABET]. *Departments have the following stated program educational objectives:*



**PEO 1:** Graduates will have demonstrated a thorough grounding in the fundamental principles of Basic Sciences, English, other Engineering disciplines, Electrical Engineering Subjects and practices of Computer Science.

**PEO 2:** Graduates will have undertaken complex problems and developed appropriate technical solutions.

**PEO 3:** Graduates will be prepared to communicate and work effectively on team based engineering projects and will practice the ethics of their profession consistent with a sense of social responsibility.

**PEO4:** Graduates will have demonstrated exposure to emerging and modern technologies to succeed in engineering position in various agencies and also pursuit advanced degrees in engineering.

***PLEASE ASSESS WHETHER THE OBJECTIVES HAVE BEEN ACHIEVED & LEVEL OF ACHIEVEMENT:***

Excellent(E)	Good(G)	Average(A)	Poor(P)	No Comment(NC)
4	3	2	1	1

SNO	E	G	A	P	NC	Yours Comments...
	4	3	2	1	1	
PEO 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PEO 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PEO 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PEO 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**h). Program Outcomes:** Program outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behaviors that students acquire in their matriculation through the program

[ABET]. Please assess whether the following program outcomes have been achieved during your studies and the level of achieving the same:

<b>PO</b>		<b>E</b>	<b>G</b>	<b>A</b>	<b>P</b>	<b>NC</b>
		<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>
PO:a	an ability to apply knowledge of mathematics, science and engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:b	an ability to design and conduct experiments, as well as to analyze and interpret data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:c	an ability to design a system, component or process to meet desired needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:d	an ability to function on multidisciplinary teams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:e	an ability to identify, formulate, and solve engineering problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:f	an understanding of professional and ethical responsibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:g	an ability to communicate effectively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:h	the broad education necessary to understand the impact of engineering solutions in a global and societal context	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:i	a recognition of the need for, and an ability to engage in life-long learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:j	a knowledge of contemporary issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:k	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PO:l	Ability to develop Electrical applications and industry based projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SIGNATURE

## 1.4 Feedback System

### 1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the university?

- The institution is an affiliated college to the JNT University. While preparing the curriculum by the university the institution will give suggestions and inputs to the university.
- However, a systematic mechanism is installed in the institution to look after the affairs of the feedback process and analysis through the College Academic Committee.
- The university expert teams visit the college a couple of times in a year for the purpose of extension of affiliation and affiliation of new courses. During the inspection process the university expert team interacts with students and the faculty on several aspects of availability of facilities and teaching-learning process.
- Feedback is obtained by the committee and the same is conveyed to the university.
- In addition the Vice Chancellor convenes meeting of Principals of all the affiliated colleges and obtains their opinion on matters of importance
- The senior faculty of the department are constantly in touch with the members of the BOS and convey their feedback regarding inclusions, deletions of necessary changes in the curriculum.

### 1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on curriculum? If ‘Yes’, how is it communicated to the university and made use internally for curriculum enrichment and introducing changes/ new programmes?

**Yes**

- Feedback is obtained from the students in a formal manner at the end of each semester in the prescribed format. The feedback is analyzed by the heads of the departments and a summary of the same is prepared. This feedback is primarily used for identifying the weaknesses in teaching learning process. The faculty is counseled by the heads so as to improve the process of teaching learning.
- Feedback from the stakeholders such as employers, alumni, is obtained once in a year from which the adequacy of the curriculum is ascertained. Any shortcomings in the curriculum are discussed by the college academic committee and the same

is conveyed to the University for necessary action.

- The institution takes part in the curriculum development process through appropriate analysis of feedback given by the various stake holders from time to time and assimilates the suggestions in the functional style of the institution. The meeting ratifies the responses and makes suggestions for modifying curriculum. Finally, the institution represents these suggestions through various capacities to the universities for necessary changes.

<b>StakeHolder</b>	<b>Frequency of Feedback</b>
Alumni	Yearly once whenever the Alumni visits
Industry	Yearly once during the Student visit to industry or Industry person visit the college
Student	Yearly once from exit student/ once in a semester
Employer	Yearly once
Professional Body Members	Yearly once during their visit to the college

- Dr. Deepak L Waikar, NIT Singapore are attended Two Day national level workshop on “sustainable clean energy technology”. On gone through the Academic curriculum of EEE, he advised to include solar power/ alternate energy related subjects into the curriculum to enhance employability prospective engineers.
- Prof Madhu Mutyam department of CSE IIT Chennai as visited our college to deliver lecture “ Layer Computer Design”. On gone through the curriculum of CSE advised to include multilayer architecture in Processor Design & IOT Applications under laboratory into the curriculum.
- Prof K Srinivasa Reddy IIT Chennai has visited our college to deliver lecture on gone through the curriculum of Mechanical. He has suggested to include PLC related concepts to give electronics related programming touch to the Mechanical students.
- Prof R V Raj Kumar IIT Khargpur, has visited our college and delivered lecture to our students. After seeing the curriculum for ECE students as advise to include Antenna Measurements Lab to strengthen their domain skills,

**1.4.3 How many new programmes/ courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programmes?) Any other relevant information regarding curricular aspects which the college would like to include**

The college has introduced Three new programmes during the last four years. The details are

<b>Year</b>	<b>UG/PG</b>	<b>Couse</b>	<b>Duration</b>
2011-2012	PG	M.Tech( Power Electronics)	2 Years
2014-15	PG	M.Tech(Power Systems)	2 Years
	PG	M.Tech(DECS)	2 Years
2015-16	UG	B.Tech( Civil Engineering)	4 Years

**Need of introducing PG Programmes:**

- According to AICTE, there is an acute shortage of qualified and effective faculty members in our country. In order to increase the qualified faculty, AICTE has taken steps to increase the number of post graduate students in colleges.
- Hence steps are taken to introduce PG level engineering courses.
- The UG Programme in Civil Engineering is introduced, as many of the students are having interest to pursue and the employment opportunities are fair for Civil Engineering in view of infrastructural exposure after bifurcation of the state of Andhra Pradesh.

## **CRITERION II: TEACHING-LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

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

##### **Publicity in the admission process:**

Admissions are made into the college according to the guidelines framed by Andhra Pradesh State Council of Higher Education (APSCHE). The institution ensures wide publicity to the admission process by the following:

##### **a. Institutional Website**

All aspects of the college, from the admission procedure to the placement record, faculty position, student amenities including the innovative practices are all made available in the college website ([www.avanthienggcollege.ac.in](http://www.avanthienggcollege.ac.in)). The website is updated regularly.

##### **b. Advertisement in Regional/ National Newspapers**

The achievements of the institution are publicized in the regional/state wide news papers as news items or advertisements at the time of admissions as well as when certain land marks are achieved. Notifications for category 'B' seats in various courses also will be issued in national and regional news papers.

##### **c. Brochure**

College brochures are published highlighting the vision and mission of the college along with the objectives, code of conduct, JNTUK rules and regulations, courses offered and the facilities available including the details of the teaching staff, Library, Laboratories , games and sports.

##### **d. Any other (specify)**

The admission process and the dates of admission for various courses are displayed on the Notice Board. The parent meets and counseling committees for various courses help to create the awareness about various courses and their admission procedures. Most of our alumni are quite happy with the institute and they will suggest their friends about the organization and takes part admission in admission process.

##### **Transparency in the admission process:**

All Admissions are under control by Andhra Pradesh State Council for Higher Education (APSCHE). All admissions made are in two categories i.e. A & B.

**Category A:** 70% of the total seats are through Common Entrance Test carried out by APSCHE.

1. APSCHE release the notification for Higher education in Engineering colleges through

news papers.

2. APSICHE conducts the entrance exam EAMCET for Engineering.
3. They conduct the counseling based on Ranks are allotted various Engineering Colleges.
4. As per Government rules special quota is provided to students who belong to SC, ST, OBC and Minorities.

**Category B:** 30% of the admissions are made by the college as per the guidelines of the APSICHE. Entire admission process is highly transparent and there is no scope for any deviation.

**2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.**

- All the admissions made are controlled by Andhra Pradesh State Council for Higher Education (APSICHE) in two categories i.e. A & B.

**Engineering:**

- ✓ The College offers 5 Undergraduate and 6 Postgraduate Professional and 3 Diploma courses.
- ✓ 70% students into these programmes are admitted through centralized admissions organized by the government (EAMCET & E-CET for UG, GATE/PGECET for M.Tech and 100% students are admitted through POLYCET for DIPLOMA) according to the norms of AP State Council of Higher Education (APSICHE). The students are allowed to choose any particular branch of engineering in any of the engineering colleges. They can give multiple choices regarding the college in order of preference.
- ✓ If any seats left vacant due to non-reporting or any other reason in category – A, the seats are filled at the end of the counseling in institutional spot admissions as per the norms of the convener of the common entrance test.
- ✓ The other 30% (B-category, i.e. Management/NRI) admissions are made at the college level as per the guidelines of APSICHE. Advertisements/notifications are issued in the leading regional news papers inviting applications from the eligible candidates. Application form for B- category seats provided on the college website which can be downloaded. Merit list is prepared from the applications received and the final list of selected candidates is posted on the college website and notice boards. 20% of the seats for lateral entry admissions for diploma holders into second year are made by the convener, E-CET.

**MBA:**

- ✓ The institute also offers PG programme in MBA where in 70% of seats are filled through ICET by the APSICHE. The other 30% B-category seats are filled by the institution following the guidelines given by APSICHE.

**i) A-Category (Convener Quota) admissions:**

Criteria followed

- |                                   |                      |
|-----------------------------------|----------------------|
| ✓ B.Tech (I year)                 | - EAMCET rank        |
| ✓ B.Tech (II year- Lateral Entry) | - ECET rank          |
| ✓ M.Tech                          | - GATE / PGECET rank |
| ✓ MBA                             | - ICET rank          |
| ✓ DIPLOMA                         | - POLYCET            |

## ii) B-Category (Management Quota) admissions:

Criteria followed

- ✓ The remaining seats shall be filled on merit basis with candidates including from other States as per APSICHE/AICTE guidelines.
- ✓ The seats remaining unfilled from the above shall be filled with eligible candidates on merit basis following eligibility criteria laid down in rule (4) of G.O.Ms.No.74.
- ✓ Thereafter, if any seats still remain unfilled such seats may be filled on merit basis with candidates securing not less than 45% (40% in case of candidates belonging to reserved categories) in the prescribed group subjects taken together/aggregate marks in the qualifying examination. All affiliated colleges are governed by the admission procedures and guidelines prescribed by the APSICHE, Government of Andhra Pradesh.

## Category – B Seats

- ✓ The remaining 30 % of the total seats (Category – B) are filled by the college as per the guidelines issued by the APSICHE in highly transparent manner. The college will send a list of admitted candidates along with necessary certificates to APSICHE for approval.

1. Candidates should obtain at least 45% of marks (40% in case of candidates belonging to reserved category) in the qualifying exam (10+2).
2. Candidate should have passed for the final year of Intermediate examination (10+2 pattern) with mathematics, Physics along with chemistry or related vocational courses in the fields of Engineering and Technology, conducted by the board of Intermediate Education, Andhra Pradesh along with bridge course.
3. The first priority will be given to the candidates who have EAMCET rank cards and second priority will be given to the candidates who have highest marks in intermediate examination.

## 4. Lateral Entry

- ✓ In all B.Tech courses, 20% of the sanctioned intake seats are added for the lateral entry admission at the second year level in each of the discipline offered by the institution for the students who have completed their Diploma course from Polytechnics.
- ✓ The candidates should have passed the qualifying exam.( Diploma holders) shall be admitted into the II nd year Ist semester directly, based on the rank secured by the candidate at Engineering Common Entrance Test (ECET) in accordance with the instructions received from the Convener, ECET and Government of Andhra Pradesh.



**2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

Admission to particular departments is made after the counseling and preparing the merit list only. Students seeking admission through management must also have to satisfy the requirements and should have good percentage in their academics. The admission procedure is done strictly according to the conditions laid by the JNTUK University and AICTE. The same procedure is followed in the case of Post Graduation courses M.Tech and MBA. The Selection of students for various departments is done through the criterion which is laid down by the JNTUK University.

**Program Mode of Selection:**

For all B.Tech branches

- ✓ A-Category (Convener Quota) students must have passed 12th Standard with a valid EAMCET rank.
- ✓ B-category students must have passed 12th Standard with minimum 45% marks.

For all M.Tech branches

- ✓ A-Category (Convener Quota) students must have passed B.Tech with a valid GATE/PGCET rank.
- ✓ B-category students must have passed B.Tech with minimum 50% marks.

For all MBA branches

- ✓ A-Category (Convener Quota) students must have passed UG Programme with a valid ICET rank.
- ✓ B-category students must have passed UG Programme with minimum 50% marks.

For all Diploma branches

- ✓ A-Category (Convener Quota) students must have passed 10<sup>th</sup> class Programme with a valid POLYCET rank.

**Quality of Students Admissions:**

**Courses-wise Lowest & Highest EAMCET Ranks for U.G. - B.Tech Programs**

S.N O	COLLEGE NAME	BRANCH	OC		SC		ST		OTHERS(BC)	
			LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK
<u>2015-16</u>										
1	Avanthi Institute of Engineering and Technology	Mech	27824	130088	41714	125786	--	--	20003	129968
		ECE	31443	114450	61736	126043	69306	69306	15752	126365
		EEE	37434	124855	69147	132564	123914	123914	27108	108396
		CSE	19541	114971	103465	112988	--	--	37089	131826

<u>2014-15</u>										
2	Avanthi Institute of Engineering and Technology	Mech	42038	118743	110691	188542	200917	200917	37693	197274
		ECE	8785	169660	148238	148238	---	---	46901	195562
		EEE	76276	154240	78374	193877	---	---	35003	190245
		CSE	37471	197593	88567	88567	--	--	16386	200982
<u>2013-14</u>										
3	Avanthi Institute of Engineering and Technology	Mech	31259	159069	84023	213576	64435	64435	23398	192158
		ECE	27788	205390	96870	216763	---	---	33289	210109
		EEE	55947	206106	88562	123104	--	--	62836	215293
		CSE	60459	215323	--	--	--	--	64959	212770

**Courses-wise Lowest & Highest ECET Ranks for U.G. - B.Tech (Lateral Entry) Programs**

S.N O	COLLEGE NAME	BRANCH	OC		SC		ST		OTHERS(BC)	
			LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK
<u>2015-16</u>										
1	Avanthi Institute of Engineering and Technology	Mech	442	4500	3171	7011	3004	6862	335	6462
		ECE	621	4804	1006	3830	---	---	124	5721
		EEE	820	3257	---	---	7305	7305	828	6735
		CSE	---	---	---	---	---	---	156	1837
<u>2014-15</u>										
2	Avanthi Institute of Engineering and Technology	Mech	247	3148	1884	4639	---	---	389	5733
		ECE	1593	7481	7573	7725	6688	6688	513	9594
		EEE	9960	9960	---	---	---	---	9644	10201
		CSE	1289	1289	311	3671	251	3591	409	3194
<u>2013-14</u>										
3	Avanthi Institute of Engineering and Technology	Mech	443	2494	1330	7230	---	---	301	9184
		ECE	1443	6635	6183	6461	---	---	618	7632
		EEE	220	1654	1326	1326	---	---	301	6403
		CSE	1289	1289	311	3671	251	3671	409	3194

**Courses-wise Lowest & Highest GATE/PGECET Ranks for P.G. - M.Tech**

**Programs**

S.NO	COLLEGE NAME	BRANCH	OC		SC		ST		OTHERS(BC)	
			LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK
<u>2015-16</u>										
1	Avanathi Institute of Engineering and Technology	PE	949	3411	4387	7043	5111	---	162	9911
		PS	2925	2939	4558	6384	2837	---	631	6643
		VLSI	--	--	--	--	--	--	47	7341
		CSE	--	--	--	--	--	--	5016	5016
		DECS	--	--	8325	8325	--	--	5200	8710
<u>2014-15</u>										
2	Avanathi Institute of Engineering and Technology	PE	912	8713	4605	4605	---	---	2512	16801
		PS	1619	4058	---	---	---	---	1924	14418
		VLSI	6565	13373	2854	2854	---	---	11137	11511
		CSE	3375	5821	---	---	---	---	13534	14830
		DECS	3659	23155	11061	11061	16847	16847	4762	26020
<u>2013-14</u>										
3	Avanathi Institute of Engineering and Technology	PE	18349	18349	4206	4206	26254	26254	139	139
		VLSI	1606	1801	322	12529	20833	20833	429	19938
		CSE	6051	11426	21731	21731	--	--	4522	17464
		SE	9048	17087	--	--	--	--	14623	14623
		IT	20276	20276	--	--	--	--	17949	20217

**Courses-wise Lowest & Highest Ranks for PG - MBA  
Program ICET Ranks**

S.NO	COLLEGE NAME	BRANCH	OC		SC		ST		OTHERS(BC)	
			LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK
<u>2015-16</u>										
1	Avanathi Institute of Engineering and Technology	MBA	4965	59220	34212	63452	63756	63756	2910	61676
<u>2014-15</u>										

2	Avanathi Institute of Engineering and Technology	MBA	1946	88029	58693	104907	---	---	10268	113918
<u>2013-14</u>										
3	Avanathi Institute of Engineering and Technology	MBA	8012	113773	81980	102497	---	---	8534	118971

**Courses-wise Lowest & Highest POLYCET Ranks for DIPLOMA Programs**

S.N O	COLLEGE NAME	BRANCH	OC		SC		ST		OTHERS(BC)	
			LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK	LOWEST RANK	HIGHEST RANK
<u>2015-16</u>										
Avanathi Institute of Engineering and Technology	ECE	3627	69974	80400	80400	---	---	24768	69297	
	EEE	23178	69396	72065	---	77439	---	12651	66998	
	MEC	8016	20465	31116	77494	69577	78622	10641	56339	
<u>2014-15</u>										
Avanathi Institute of Engineering and Technology	EEE	19918	98990	142308	142308	---	---	28803	135294	
	MEC	26752	94556	101268	163955	---	---	20419	127947	

**OTHER COLLEGES:**

S.N O	COLLE GE NAME	BRANC H	OC		SC		ST		OTHERS(BC)	
			LOWE ST RANK	HIGHE ST RANK	LOWE ST RANK	HIGHE ST RANK	LOWE ST RANK	HIGHE S T RANK	LOWE ST RANK	HIGHE ST RANK
1	DIET	Mech	30824	142041	52486	138452	--	--	22458	136859
		ECE	29546	116582	58953	135895	122457	122457	17596	131536
		EEE	40152	131256	68523	138456	--	--	38452	136856
		CSE	33864	147582	118953	125673	--	--	35716	147586
2	SIMHAD RI	Mech	33568	149521	45264	128653	122589	122589	22598	133523
		ECE	31245	128462	70281	137953	--	--	21458	144349
		EEE	39473	125681	71439	136852	--	--	26849	111853
		CSE	21673	118537	99028	118735	--	--	40157	139856

**2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?**

The college verifies and review all the profiles of the students admitted annually. The institution has well planned, well defined and well designed mechanisms as far as reviewing the profiles and merits of the students. Admission intake & quality for Mechanical programme is given below

#### **ADMISSION INTAKE & QUALITY**

S. No.	Academic year	Sanctioned in take	Seats filled	% Seats filled
1	2015-16	180	140	77.77
2	2014-15	180	131	72.77
3	2013-14	180	138	76.66

\* Admissions are consistence for the last two years.

The administrative section regularly monitors and provides information to the academic heads for proper corrective measures. In particular the committee which is responsible for the admission procedure will monitor a particular section of students like Girls, villagers, or any specific community are found to be in less numbers in the admission lists. Then the committee tries to motivate those sections of students by providing them requisite abilities to join our institution. The activities of the students are closely monitored by assigning some faculty members as a group forming committee members.

A 'Record' of mentoring books are maintained which consists the parameters like attendance, marks scored, sports and extra-curricular activities, medical information. The students with a little bit of negative approach or disturbing elements are counseled by the faculty members so that they can be moulded with a positive attitude and positive frame of mind. This type of activities in the institution can make the students to become an asset for the institution.

#### **2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion**

- \* SC/ST
- \* OBC
- \* Women
- \* Differently abled
- \* Economically weaker sections
- \* Minority community
- \* Any other

Students from SC/ST/OBC are allotted seats as per state government policies. Tuition Fees reimbursement, fees exemptions, and endowment benefits are also extended to these students in our institution as per the State Government rules. These students are providing with some extra facilities provided by the college management also. The institution continuously bestow their efforts to create awareness on the importance of higher studies i.e. education as a means of empowerment bring a change in the society. The faculty members of our institution visit the neighboring villages and nearby schools/junior/degree colleges in order to promote the awareness of higher studies by counseling the students belong to the non creamy layers. The faculty members also explains the various benefits they are getting from the government according to the reservation policies, financial and academic facilities gained through the institution and state government.

The reservation quota for various sections in EAMCET convener quota as per the guidelines of AP State Government are ST-7.5% , SC-15%, BC-25%, NCC-1%,PH-3%, Ex-Servicemen-2%, Sports-0.5% . As per the norms of the government, 30% of seats are reserved and filled by women candidates. Apart from that, a significant number of women candidates are being admitted every year on merit basis.

#### **Women:**

For women, there is separate reservation policy of the state Government and University in admission. They will also compete with a fair merit base with men. Over and above thus, the women are provided with 30 percent reservation. The women candidates are provided with equal opportunity. Separate hostel facilities are available for the women category. The institution also provides special orientation and counseling for the needy parents on the importance of women education and exclusive facilities provided for them in terms of incentives, security, protection and special reservation by the state government and institution.

#### **Differently-abled:**

There is special reservation for the students who come into differently abled categories as per the UGC and state government norms. Their requirements and needs are given a higher importance with a special care and attention by the college authorities. The college provides western toilets and wheel chair facilities for the disabled candidates. The college also provides a special means of transport particularly for such students

**Economically Weaker Sections of the Society:**

The management committee of the institution provides special benefits for the students who belong to economically weaker sections viz; like the concession in fee, free books, free transport, free hospitality and special rewards which help them in their career.

**Minority:**

The institution follows reservations to the students belonging to minority community under the direction of Central Government, State Government and the affiliating university. The institution offers every possible help to the students belonging to this community in every aspect like scholarships and other resources.

**Athletes and sports persons:**

The students who participate in sports activities at regional or national level are given admissions based on their excellence in athletics or sports. They are encouraged further to continue their participation in university, state and national level games/ sports.

**2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.**

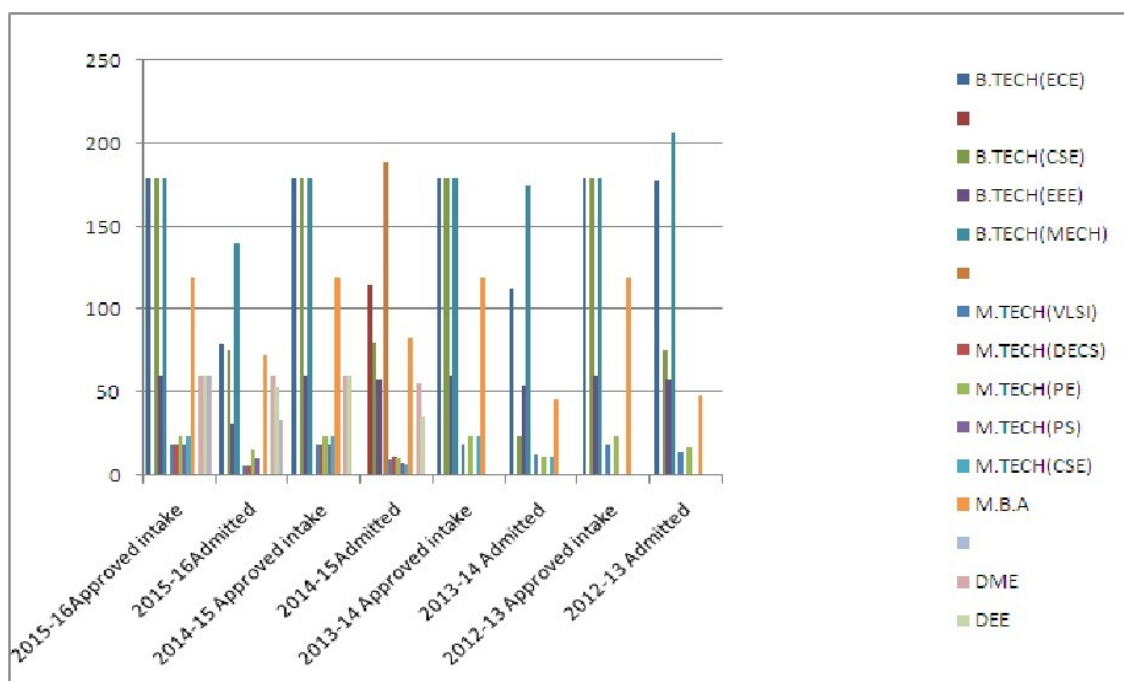
**Students admitted to UG , PG and DIPLOMA in the last Four Years:**

S.No	Programme	Course	Student Intake	Student Admitted	Demand Ratio
<b>2015-16</b>					
1	UG	Electronics and Communication Engineering	180	79	0.438
2		Computer Science and Engineering	180	75	0.416
3		Electrical and Electronics Engineering	60	31	0.516
4		Mechanical Engineering	180	140	0.777
1	PG	VLSI	18	6	0.333
2		DECS	18	6	0.333
3		Power Electronics	24	15	0.625
4		PS	18	11	0.611
5		Computer Science and Engineering	24	1	0.041
6		M.B.A	120	72	0.6
1	DIPLOMA	Diploma Mechanical Engineering	60	60	1

2		Diploma Electrical and Electronics Engineering	60	53	0.883
3		Diploma Electronics and Communication Engineering	60	34	0.566
<b>2014-15</b>					
1	UG	Electronics and Communication Engineering	180	115	0.638
2		Computer Science and Engineering	180	80	0.444
3		Electrical and Electronics Engineering	60	58	0.966
4		Mechanical Engineering	180	189	1.05
1	PG	VLSI	18	10	0.555
2		DECS	18	12	0.666
3		Power Electronics	24	11	0.458
4		PS	18	8	0.444
5		Computer Science and Engineering	24	7	0.291
6		M.B.A	120	83	0.691
1	DIPLOMA	Diploma Mechanical Engineering	60	56	0.933
2		Diploma Electrical and Electronics Engineering	60	36	0.6
3		Diploma Electronics and Communication Engineering	--	--	--
<b>2013-14</b>					
1	UG	Electronics and Communication Engineering	180	113	0.627
2		Computer Science and Engineering	180	24	0.133
3		Electrical and Electronics Engineering	60	54	0.9
4		Mechanical Engineering	180	175	0.972
1	PG	VLSI	18	13	0.722
2		DECS	--	--	--
3		Power Electronics	24	12	0.5
4		PS	--	--	--
5		Computer Science and Engineering	24	12	0.5
6		M.B.A	120	46	0.383
<b>2012-13</b>					
1	UG	Electronics and Communication Engineering	180	178	0.988
2		Computer Science and Engineering	180	75	0.416
3		Electrical and Electronics Engineering	60	58	0.966



4		Mechanical Engineering	180	207	1.15
1	PG	VLSI	18	14	0.777
2		DECS	--	--	--
3		Power Electronics	24	17	0.708
4		PS	--	--	--
5		Computer Science and Engineering	--	--	--
6		M.B.A	120	48	0.4



- Institute has introduced new Diploma courses.
- During last three years the admissions in mechanical course has been maintaining good because of demand in course.
- Due to the mushroom growth of engineering colleges and lack of awareness towards engineering among student, there is decline in admission.
- Reduction in teaching opportunity leads to decrease in PG admissions.
- The Institution is planning to take necessary steps to improve the admissions in upcoming years

## 2.2 Catering to Diverse Needs of Students

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

Institute provides counseling to differently-abled students specially those who are weak in mental health and physically disabled. Special classes, counseling sessions are arranged to these students as a part of academic support.

Our college maintains counseling and mentoring system for mentally weak students.

Many students when they experience life events or academic pressures that leave them feel anxious, confused, lonely, angry, depressed or overwhelmed. When those feelings persist for more than just a few days, it is often helpful to speak with an unbiased, objective professional through counseling.

The institute is also well equipped with facilities to accommodate physically weak students:

- **Wheel chair:** The institution provided a wheel chair to help moment of the physically disabled students with in the campus.
- **Ramp:** Ramp facility is there for the disabled students.

### **2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.**

Yes. Before commencement of each programme the institution identifies and evaluates the students needs. The competency and learning level of a student is judged from his / her marks and from the details given in his/her profile collected at the time of admission ie personal details, previous academic performance, strengths, weakness, goals, performance in the EAMCET examination and their intermediate examination.

After the analysis we came to know that the institution has only the choice of conducting **bridge courses** after admitting the students. The knowledge gap of the fresh students is abridged through different courses for enabling them to cope with the programme to which they are enrolled.

The bridge courses organized by our institution are in the fields of Mathematics and English communication, which are useful for students hailing from Rural Areas and for whom English is not the medium of instruction. We are conducting bridge course for lateral entry students also.

- It is a regular practice to conduct orientation program to the students admitted in to first year of different courses every year.
- An induction meet will be organized where in the students and their parents are invited to attend.
- Resources persons viz; senior academicians from reputed universities and industry experts are invited to address gathering.
- M
- Newly admitted students are motivated towards their course of study by expert talks and interactive sessions.
- New trends in the engineering education, avenues, employment opportunity, career growth and higher education options are clearly explained to them with the help of oral and power point presentations(PPT).
- Doubts expressed by the participants will be cleared by the experts.
- The first week of instruction period will be treated as orientationally and new income will be addressed by senior faculty to motivate, guide and inspire student and ultimately put them in the right track

### **2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice? (Bridge/Remedial/Add-on/Enrichment Courses, etc.**

**Bridge course-** Bridge courses are being conducted for 15 days at the beginning of the semester by the Faculty members. As majority of our students are from the rural background, special attention is paid in organizing programmes on personality development and computer skill enhancement.

**Remedial courses-** The College conduct remedial classes for the improvement of academically weak students

**Add-on-courses** – For enrichment of subject knowledge, every department organizes special seminars by the experts in respective subjects.

**Tutorial hours** -Courses which require more practice, includes critical thinking or programming are provided with tutorial hours. Tutorial hours are specially marked in the time table and the lesson plan.

### **2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

The college sensitizes its staff and students on issues such as gender, inclusion and environment by arranging lectures, workshops, seminars, documentary film, invited talks and paper presentations on Women Empowerment, law awareness, and counseling for “Save Girl Child” drive. Our institution maintains Women’s Grievance Cell to cater to the problems and issues.

Health awareness programs, pregnancy & leave matters are paid special attention to via various feministic workshops and programs. Similar efforts are channeled in various grooves for awareness of adolescence, clean and eco-friendly environment.

Lectures are arranged on tree plantation, climate change, cyber crime, anti ragging, moral-ethical values enhancement, Juvenile offences, global warming, pollution, water literacy, energy crisis etc.

NSS unit of the college keep keen interest in arranging the various lectures and programmes regarding above issues and celebration of national and international days.

### **2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?**

- There is a specific strategy for the identification of slow and advanced learners at entry level; the indicator is just their Marks Memo. As the classes begin, their academic standards are judged through their responses and the regularly conducted class-tests.
- The advanced learners are identified on the basis of their responses, their pace of comprehension and assimilation, their articulation of ideas, conceptual abilities and progression in learning subjects.
- Every student has to submit a home assignment in every course .Some of these tasks is beyond syllabus to encourage out-standing students to develop their self learning capabilities.
- Additional experiments are conducted in the labs to enrich the student performance.
- Lab facilities are provided even after the institution hours.

- Students from both the categories are encouraged and provided need-based guidance and material. These students are encouraged to take initiatives in all curricular and extracurricular activities.
- Opportunities are provided for them to acquire knowledge in different areas for facilitating better future. The students are encouraged to have membership in professional bodies and paper presentations and publishing at national seminars and workshops.
- Tutorials classes are may part of the timetable and for every three periods of lecture hour there will be one tutorial hour.
- During the tutorial hours weak and poor performance students are identifies and special focus will be paid by the teacher to bring them to the higher levels.
- Special care will be taken to explain the concept again and again until they understand.
- Any prerequisite knowledge require to understand the new concepts will be provided to them for better understanding.
- The size of the tutorial class is maintained in such a way that teachers can have special focus on weak and poor performing students. In our college we keeping it as 30.

**2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.)?**

Dropouts are very few and insignificant in this institute. The institute has a sound system of counseling and mentoring such students.

Academic performance of the students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. is detected by the teachers during their lectures in classroom.

We use marks as index for identifying slow learners students are subjected to various methods of evaluation, vocal responses, sample individual responses & written test after each unit of syllabus.

These students who do not seem to cope up with the pace of learning are advised and counseled by the faculty members and the Head of the department. They are specially advised and counseled so as to help them improve themselves.

We are maintaining mentoring books for every department in the college to know the status of the student and counseling the students who are weak in the academics.

The morale of the slow learners is boosted by counseling sessions, remedial classes and intensive interactive sessions. They are also given advice after class hours and are motivated by providing additional learning material such as text books and solved question papers from exams.

**2.3 Teaching-Learning Process**

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

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**Directorate of Academics & Planning**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA-533003, Andhra Pradesh, INDIA**

Lr. No. JNTUK/DAP/I Year/Aca.Cal/2015-16

Dated: 04-09-2015

**Dr. K.Padma Raju**  
*B.Tech, M.Tech., Ph.D.*  
**Professor of Electronics and Communication Engineering &  
Director, Academics & Planning**

To  
The Principals of Affiliated Colleges  
JNTUK, Kakinada.

**Academic Calendars for the Students admitted in the academic year 2015-16**  
**B.Tech I Year - I & II Semester**

<b>B.Tech I Year (2015 Admitted Batch) I Semester</b>			
Description	From	To	Weeks
Commencement of Class Work	02-07-2015		
Orientation Program	03-07-2015	11-07-2015	-
I Unit of Instructions	13-07-2015	12-09-2015	9W
I Mid Examinations	14-09-2015	19-09-2015	1W
II Unit of Instruction	21-09-2015	14-11-2015	8W
II Mid Examinations	16-11-2015	21-11-2015	1W
Preparation & Practicals	23-11-2015	28-11-2015	1W
End Examinations	30-11-2015	12-12-2015	2W
Commencement of Class Work	14-12-2015		
<b>B.Tech I Year (2015 Admitted Batch) II Semester</b>			
Commencement of Class Work	14-12-2015		-
I Unit of Instructions	14-12-2015	06-02-2016	8W
I Mid Examinations	08-02-2016	13-02-2016	1W
II Unit of Instruction	15-02-2016	09-04-2016	8W
II Mid Examinations	11-04-2016	16-04-2016	1W
Preparation & Practicals	18-04-2016	23-04-2016	1W
End Examinations	25-04-2016	07-05-2016	2W

Director Academics and Planning (DAP)  
JNTUK Kakinada

Copy to the Secretary to the Hon'ble Vice Chancellor  
Copy to the Rector  
Copy to the Registrar  
Copy to the Director of Evaluation  
Copy to Director Institute of Science and Technology  
Copy to all Directors  
Copy to Principals of University Colleges of Kakinada and Vizianagaram  
Copy to Controller of Examinations, JNTUK and ACEs, JNTUK  
Copy to Principals of all Affiliated Colleges of JNTUK Kakinada

**College Calendar:** College calendar is prepared by the Academic Committee headed by the Principal. It consists of curricular, co-curricular, and extra-curricular activities. The committee decides on key dates for the requisite number of working days of contact hours per semester. The dates/schedules are presented in the academic calendar issued to every student prior to the commencement of the classes for the fresh academic year. Important dates in the Calendar include:

1. Academic counseling meetings.
2. Preparation of the course schedule and comprehensive lesson plan for the semester by individual faculty members

3. Adhered to prepare lesson plan
4. Introduction classes before beginning of the unit.
5. Re-opening after summer vacation for senior classes
6. Commencing classes for freshers
7. Schedule for the periodic class tests after contact classes
8. Schedule of activities such as symposium, guest lectures, seminars, workshops, sports and cultural,
9. Schedule for the Preparatory Examination
10. Last working day
11. Duration of study holidays and end semester examinations. Dates presented in the calendar are rarely changed and teachers are expected to strictly adhere to them in finishing their teaching and revision schedule.

### **Teaching Plan**

Preparation of the comprehensive lesson plan for the semester by individual teachers is mandated. The Heads of the respective Departments ensure that the same is adhered to departmental timetable and allotment of work load clearly defines the role of each faculty. The Log book is maintained by each faculty and completed on monthly basis and submitted to the Principal for verification.

If any gap is existed between two units it is fulfilled in the form of guest lecture by eminent faculty. While preparing the lesson plan the different teaching methodologies are maintained.

## COURSE INFORMATION SHEET

PROGRAMME: B.Tech ECE AC:YEAR:2014-2015	DEGREE: <b>BTECH: B.TECH IVYEAR(I)</b>
COURSE: <b>DIGITAL IMAGE PROCESSING</b>	SEMESTER: 4-1 CREDITS: 4
COURSE CODE: R41043 REGULATION: R10	COURSE TYPE: COURE COURSE COORDINATOR:
COURSE AREA/DOMAIN: ELECTRONICS AND COMMUNICATION	CONTACT HOURS: 4+1 (Tutorial) hours/Week.
CORRESPONDING LAB COURSE CODE (IF ANY): NO	LAB COURSE NAME: NO

### SYLLABUS:

UNIT	DETAILS	HOURS
I	<p><b>Introduction:</b> Origins of digital image processing, uses digital image processing, fundamental steps in digital image processing, components of an image processing system, digital image fundamentals, Elements of visual perception, light and electromagnetic spectrum, imaging sensing and acquisition, image sampling and quantization. Some basic relationships between pixels, An introduction to the mathematical tools used in digital image processing</p> <p><b>Image Transforms:</b> Need for image transforms, Spatial Frequencies in image processing, introduction to Fourier transform, discrete Fourier transform, fast Fourier transform and its algorithm, properties of Fourier transform. Discrete sine transform. Walsh Transform. Hadamard transform, Haar Transform. Slant transform, SVD and KL Transforms or Hotelling Transform</p>	15
II	<p><b>Intensity Transformations and Spatial Filtering:</b> Background, Some basic intensity transformation functions, histogram processing, fundamentals of spatial filtering, smoothing spatial filters, sharpening spatial filters, Combining spatial enhancement methods, using fuzzy techniques for intensity transformations and spatial filtering.</p>	7
III	<p><b>Filtering in the frequency domain:</b> Preliminary concepts, Sampling and the Fourier transform of sampled functions, the discrete Fourier transform (DFT) of one variable, Extension to functions of two variables, Some properties of the 2-D Discrete Fourier transform. The Basic of filtering in the frequency domain, image smoothing using frequency domain filters, Selective filtering, Implementation.</p>	7
IV	<p><b>Image restoration and Reconstruction:</b> A model of the image degradation / Restoration process, Noise models, restoration in the presence of noise only-Spatial Filtering, Periodic Noise Reduction by frequency domain filtering, Linear, Position –Invariant Degradations, Estimation the degradation function, Inverse filtering, Minimum mean square error(wiener)filtering, Constrained least square filtering, Geometric mean filter, Image reconstruction from projections.</p>	9
V	<p><b>Color Image Processing:</b> Color fundamentals, Color models, Pseudo color image processing, Basic of full-Color Image Processing, Color Transformations, Smoothing and Sharpening, Image Segmentation based on color, Noise in Color Images, Color Image Compression.</p>	8
VI	<p><b>Wavelets on Multi-resolution Processing:</b> Image Pyramids, Su-band Coding &amp; Harr Transform, Multi-resolutions Expansions, Wavelet Transforms in One Dimension, The</p>	8

	Fast Wavelet Transforms, Wavelet Transform in 2D, Wavelet packets. <b>Image Compression:</b> Fundamentals, Various compression methods-Coding Techniques, Digital Image Watermarking.	
VII	<b>Morphological Image Processing:</b> Preliminaries, Erosion and Dilation, Opening and Closing, The Hit-or-Miss Transformation, Some basic Morphological Algorithms, Grey Scale Morphology.	8
VIII	<b>Image Segmentation:</b> Fundamentals, Point, Line, and Edge Detection, Thresholding, Region based segmentation, segmentation using Morphological watersheds, The use of motion in segmentation.	8
TOTAL HOURS		70

**TEXT/REFERENCE BOOKS:**

T/R	BOOK TITLE/AUTHORS/PUBLICATION
1	Rafael C. Gonzalez and Richard E.Woods, Digital Image Processing, Pearson Education, 2011
2	S. Sridhar, Digital Image Processing, Oxford Publishers 2011
3	S. Jayaraman, S. Esakkirajan, T.Veerakumar, Digital Image Processing, Mc Graw Hill Publishers, 2009.

**COURSE PRE-REQUISITES:**

C.CODE	COURSE NAME	DESCRIPTION	YEAR
1	DSP	Knowledge on digital filters , FT,DFT and FFT	3-2

**COURSE OBJECTIVES:**

Course Objectives :		
I	1	By taking this course of course, learners will learn proper image representation, enhancement, filtering, restoration, analysis, reconstruction from projection.
	2	This course will build proficiency in terms of Understanding the mathematical and signal principles forming the basis for methods of image processing.
III	1	By taking this course, students will learn advanced digital image processing techniques, including various image transformations, image reconstruction from incomplete information, image segmentation and recognition.
	2	To design and conduct digital imaging experiments and analyze and interpret image as evidenced from computer projects. Examples include pc-based image processing systems and ready to use implementations of important algorithms.
V	1	To convert image from RGB to gray, black and white, index image. remove the blurring in an image from a moving object. One has to understand how to model the motion, its effect on image formation and remove the motion artifacts under various real world constraints.
	2	Be able to develop the technical specifications required to accomplish a desired function of noise reduction, edge detection, compression, or segmentation.



**COURSE OUTCOMES:**

SNO	DESCRIPTION	PO MAPPING
1	To acquire the fundamental concepts of a digital image processing system	i, j, k, l
2	To identify and exploit analogies between mathematical tools used for 1D and 2D signal analysis and processing.	a, b, e

**GAPS IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS:**

SNO	DESCRIPTION	PROPOSED ACTIONS
1	Image denoising techniques	GUEST LECTURER
2	Slant transform, SVD and KL Transforms	NPTEL LECTURES

**TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:**

1	morphological image processing
2	image compression models(JPEG and JPEG 2000)

**WEB SOURCE REFERENCES:**

1	<a href="http://www.library.cornell.edu/preservation/tutorial/intro/intro-01.html">http://www.library.cornell.edu/preservation/tutorial/intro/intro-01.html</a>
2	<a href="http://www.cs.auckland.ac.nz/courses/compsci773s1c/lectures/ImageProcessing-html/topic4.htm">http://www.cs.auckland.ac.nz/courses/compsci773s1c/lectures/ImageProcessing-html/topic4.htm</a>
3	<a href="http://www.nptel.iitm.ac.in/video.php?subjectid=117105079">www.nptel.iitm.ac.in/video.php?subjectid=117105079</a>

**DELIVERY/INSTRUCTIONAL METHODOLOGIES:**

<input checked="" type="checkbox"/> CHALK & TALK	<input checked="" type="checkbox"/> STUD.ASSIGNMENT	<input checked="" type="checkbox"/> WEB RESOURCES	
<input type="checkbox"/> LCD/SMART BOARDS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input type="checkbox"/> ADD-ON COURSES	

**ASSESSMENT METHODOLOGIES-DIRECT**

<input checked="" type="checkbox"/> ASSIGNMENTS	<input type="checkbox"/> STUD. SEMINARS	<input checked="" type="checkbox"/> TESTS/MODELEXAMS	<input type="checkbox"/> UNIV. EXAMINATION
<input type="checkbox"/> STUD. LAB PRACTICES	<input type="checkbox"/> STUD. VIVA	<input type="checkbox"/> MINI/MAJOR PROJECTS	<input type="checkbox"/> CERTIFICATIONS
<input type="checkbox"/> ADD-ON COURSES			<input type="checkbox"/> OTHERS

**ASSESSMENT METHODOLOGIES-INDIRECT**

<input checked="" type="checkbox"/> ASSESSMENT OF COURSE OUTCOMES (BY	<input type="checkbox"/> STUDENT FEEDBACK ON FACULTY (TWICE)
---	--

**Evaluation**

At the end of each semester students are assessed internally on the basis of attendance, assignments, two internal examinations and one preparatory examination. Students are awarded internal marks on the basis of the performance in the above criteria. Project internal reviews are conducted and evaluated for the assessment of the progress of the project work.

To know the learning status of the students assignments are given to them. At the end of the semester examinations are conducted by the affiliated University i.e JNTU KAKINADA.

**2.3.2 How does IQAC contribute to improve the teaching –learning process?**

IQAC plays a vital role in teaching-learning process to maintain the quality and it consists of two members from each department.

- It conducts the meetings of the members of the committee for the improvement in teaching - learning process.
- The IQAC monitors the various aspects of the teaching-learning process and periodically reviews the effectiveness of the strategies adopted to make the process effective.
- The IQAC meets regularly and realigns practices based on formal (for example, student council meetings) and informal feedbacks whenever necessary.

- The IQAC proposes to the department the various strategies such as syllabus coverage, pass percentage, assessment of learning outcomes.
- It also recommends participation of faculty and students in seminars and conferences.
- IQAC regularly reviews and evaluates the teaching learning process.
- The IQAC also conducts special meetings to have a detailed result analysis of each batch.
- Meetings are held at the departmental and at the college level.
- These meetings emphasize on the strategies on improvement of results and adhering to the strategies.

### **2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

The institution follows the student centric learning through the different ways specified below.

- Each faculty prepares and discusses lesson plans with students.
- Lesson notes are distributed / discussed after each unit is covered in the class.
- Questions asked to the students based on current trends in technical fields.
- Group discussion is conducted after completion of units
- Students are asked to deliver the presentation on the selected advanced topic.
- After completion of the unit assignments are given to the students.
- Students are encouraged to do projects according their field of interest.
- Highest priority is given to promote self learning and collaborative learning in the institute.
- As the part of that students are encouraged to visit library, to browse internet and to participate in departmental association activities.
- One period per week each is earmarked for library, internet and association activities.
- A faculty in charge is appointed to mentor the activities during this hours.

**Collaborative learning:** Students are getting practical knowledge by industrial visits.

**Interactive learning:** group discussions are conducted and NPTEL videos are provided.

**Independent learning:** unit wise assignments are given and ask them to give presentations.

### **2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

**Critical Thinking:** It is nurtured by organizing debating competitions, group discussions, news paper reading, etc.

1. Encouraging students to do the problems in exercises.
2. Encouraging students to do the projects based on application-oriented projects.
3. Students are encouraged to refer technical journals to improve Life-long learning.

**Creativity:**

1. The institute conducting competitions such as Short film making, Model-Expo, etc.,

2. For enhancing creativity, students are asked to prepare posters and models and mini project exhibition on various fields.

### **Scientific Temper:**

- To create scientific temper among the students, the college is organizing project exhibition every year to become innovators.
- The institute motivates students to participate in National and International seminars and present their technical papers.
- To transform them into lifelong learners and innovators, students are encouraged to solve case studies, present their analysis, inculcating the habit of reading journals and magazines.

**2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

The technologies and facilities available and used by the faculty for effective teaching are:

### **E- Learning:**

- NPTEL provides E-learning through online web and video courses in engineering, science and humanities streams.
- One of the cornerstones of the digital library in our institute is accessing of E- journals such as Elsevier and IEEE
- Digital Library with 10 systems to access E-books.
- E-class room is available for the convenience of the users supported with Audio-Visual aids.

### **Language Lab:**

- The language lab consists of Round table, podium, mirror and video recording. Students are encouraged to participate and to use the Lab for improve the communication skills.

The teaching aids like OHP, multimedia projectors, Internet enabled computer systems are usually employed in class room.

Faculties are encouraged to be the members in the PROFESSIONAL SOCIETIES which in turn brings the technology advancement and results in effective teaching and learning process.

**2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

### **Blended Learning:**

- During Industrial visits they are exposed to practical- new trends provided blended learning pattern.

### **Expert Lectures:**

The staff is encouraged to identify topics beyond the syllabus and a few latest topics which are necessary (changing trends in technology), by inviting experts and organizing their lectures from industry, university and other national laboratories or organizations.

Seminars / workshops:

- The institution organizes workshops by eminent professionals in their respective areas in which the student community and faculty community actively participate to reap their benefits.
- The faculty members are advised to attend the FDP programmes which are conducted by the reputed institutions and universities. The institute provides TA & DA for those faculty members.
- The faculty members have been participating in the national and international conferences and presented many papers.

### **2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?**

The college makes enough provision for student's need of the following:

#### **Professional counseling system:**

There is a provision for counselors/advisors for each class or group of students for academic and personal guidance. The students are divided into groups and each group is provided with counselor /advisor to provide academic and personal guidance to the needy students.

For every 10-20 students one staff member is allotted to provide counseling and to look into the problems of the students. It is done at all level of courses in all the divisions. The faculty in – charge carefully monitors the regularity of attendance, participation in seminars and other activities and also the performance of the students in internal tests/semester examinations.

#### **Academic advice:**

The progress of the students is monitored by the faculty counselor The students are advised with some sort of remedial classes which help to improve their caliber.

The Career Guidance Cell provides worthy services in guiding the students for Interviews, Job Placements and training programmes which enable them to develop skills required to cater the needs of competitive world. The Cell organizes different programmes such as Seminars on Personality Development, Interpersonal Relationship, and Communication Skills etc for improving the latent skills of the student.

Placement Co-coordinators are identified from the final year students to take training and help from the Placement office. GATE coaching is also conducted for providing Higher education to the students.

The cell provides career counseling through professional experts and in-house faculties.

#### **Psycho-social support:**

The students who seek psychological boosting or the candidates who are psycho-socially left out are given psychological counseling by the college faculty itself. To add, the college teachers really act as a true friend, philosopher and a guide for the students.

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**MAKAVARAPALEM, NARSIPATNAM**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**STUDENT COUNSELLING FORM**

NAME OF THE STUDENT	
REG.NO.	
BRANCH	
CLASS	
YEAR	
NAME OF THE FACULTY	
DATE OF COUNSELLING	

1. Did you clear all subjects in the last years ? yes/no (If no mention the number of subjects)

2. Are you comfortable with present semester classes? Yes/no(If no, mention the details)

a.

b.

3. What is the difficulty?

Suggestion Given:

4. Do you have any other problem? Yes/no(If yes, specify the problem)

.

Suggestion Given:

Signature of the student

Signature of the faculty

**2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the the impact of such innovative practices on student learning?**

- The faculty members are allocated subjects based on their professional and teaching skills. The faculty members prepare detailed **course files** which consist of course schedules and the teaching notes. The teaching notes is elaborate and available in digital form.
- Topics beyond the syllabus are covered to enhance the knowledge of the students.
- Experiments beyond syllabus are also conducted in the specified laboratories.
- Bridge courses are conducted for overall development of students with rural backgrounds.

Some of the teaching methods and aids adopted by the faculty are:

- Role play
- OHP
- LCD projectors
- Mock sessions
- Case study
- Audio visual aids

Use of language lab for enhancement of language skills.

As a result of using these above teaching methods and aids students have gained confidence, overcome stage fear, improved communications skills and acquired management skills. This has also resulted in improvement in class room atmosphere which resulted in better teaching-learning.

➤ The College constantly encourages faculties on ICT, Library resources Computers with Internet facilities to update learning & use of other technological aids which helps in enhancement of knowledge & skills.

**The management of the college is making special efforts for the professional development of its faculty like . . . . .**

- Faculty is encouraged to pursue PhD programs and/or encouraged to take up the research work individually or in collaboration.
- The faculty is encouraged to apply for projects for research grants to different funding agencies such as AICTE, DST, UGC etc., which help to enhance professional competence and increase promotional avenues to the staff.
- The college also considers for financial support case by case.
- In order to cater to needs of the research activates by different departments the management of the college has planned for central R&D facility with all the infrastructure and instrumentation required by the departments. This in itself is a huge encouragement for the faculty to pursue their research activities within the institution. These facilities would also help in Institutional- Industry interaction in research and development in engineering and sciences.

- The faculty is regularly encouraged to attend National and International symposia and conferences and present their research findings.
  - The necessary travel expenses and registration fee are borne by the college.
  - The faculty is also encouraged to publish their research findings in National and International journals and a part of the publication cost is reimbursed by the institution.
  - Study leave is extended to faculty members who wish to pursue Masters or PhD programs.
  - All the faculty members of various departments are encouraged to participate in National/International Conferences, Seminars and Training Programs.
- Note:** Research papers and publications are shown in individual departmental profiles.

### **2.3.9 How are library resources used to augment the teaching-learning process?**

The Library is well stocked with books, journals, back volumes, projects and dissertations including e-books and e-journals. Students are allotted a library hour within the time table. Besides this the Library is kept open from 8:00 A.M. to 8:00 P.M. Monday to Saturday which facilitates optimum use. Staff and students use the library for projects, dissertations and research. Staff members provide reading lists to the learners to supplement teaching learning.

Library resources are augmented to enhance teaching-learning process through:

- A wide range of reading materials, learning resources and information helps to support the Development of successful learners and confident individuals.
- Promoting independent learning skills supports lifelong learning and encourages students to grow as responsible citizens and make an effective contribution to society.
- Using websites constructively for research.
- Introduction of e-journals for faculty & students.
- Every year books, magazines, journals are added as per the needs of staff & students.
- The library is open well beyond college hours for faculty & students to prepare for seminars, project reports, etc.,
- Internet facility.
- Wi-Fi enabled campus.

The college has one of the best stacked libraries in the region. The books and journals available are

Number of titles - 7605  
 Number of volumes – 33530  
 Number of Courses in digital library (NPTEL) - 55  
 Number of e-Books in digital library - 2744  
 No. of Technical Magazines/Periodicals- 30  
 No. of Journals in hard copy- 129  
 No. of Journals in soft copy ( ELSEVIER- , IEEE - )

Library books for faculty – 10 and for students – 4,  
 DELNET: By using DELNET membership, students and faculty will get access to innumerable e-Books and e-Journals.

### **2.3.10 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.**

The JNTU Kakinada follows semester system and prepares a tight schedule for completing the syllabus. In case of loss of working days the college follows extended working hours, to makeup the loss and complete the curriculum. Otherwise the college has a well laid down system to plan the schedule in advance and monitor the coverage of syllabus on regular basis to ensure curriculum completion within the given schedule. The IQAC keeps check on a syllabus covered by the various departments on regular basis.

**2.3.11 How does the institute monitor and evaluate the quality of teaching learning?**

The Institute monitors the quality of teaching by several means such as

- Scrutiny of Course files prepared by faculty
- Regular meetings of the students’ representatives of the class and the faculty
- Oral and written feedback from the students
- Students’ performance in the internal examinations
- Students’ results analysis
- Students’ Academic project performance
- Minimizing the absenteeism of the students.

Teaching and learning process is best attained by interactive process between the teacher and the taught. The success of the teacher however, depends on their innate ability and art of his teaching methodology and through preparation for the class. These processes cannot be quantified or universalized. Generally the standard methods of teaching, learning and evaluation methods which are proven over the years are being followed. Institution makes regular effort to enhance the staff skills and their ability by organizing in house- training programs and or deputing the staff to get training in communication skills and other areas of standard methodology. IQAC keeps check on feedback on various departments’ student feedback on regular basis for further improvements.

If more than 10 students fail in any subject, concerned faculty is counseled by the Head of the Department to identify the reason and to overcome the limitations.

Any short comings identified in theory class or practicals are being addressed through guest lecturers / conducting tutorials / printing reference materials.

**2.4 Teacher Quality**

**2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum**

**Recruitment policies:**

1. HOD must send requirement of the faculty well in advance at the beginning of the academic year.
2. Open advertisement will be given for positions in two leading newspapers, one in English and one in telugu.
3. The selection committee comprising of Principal, HOD of concerned program and one senior



faculty of the relevant shall make the selection of faculty and staff.

4. Attendance sheet, Evaluation form, finalization then short list is obtained.

**Retention policies:**

1. Increments will be given to the faculty members every year based on performance, feedback reports, results and contribution of Department/College development.
2. Faculties are encouraged to conduct for quality improvement programs, seminars, conferences, workshops. For each faculty such opportunity provided twice in an year. Total Expenses to conduct the above programs will be bared by the institution.
3. Faculties are encouraged to attend for quality improvement programs, seminars, conferences, workshops. For each faculty such opportunity provided twice in an year. Registration fee, TA & DA will be provided by the institution.
4. Staff members are selected for best teacher award of the year based on their performance, conduct and commitment in their academic activities as well as their involvement in the departmental activities of the department and the college.
5. Senior faculties are encouraged by the institute for pursuing of Ph.D with 12 special casual leaves per year.
6. Yearly 15 CLs are provided for the faculty.

Attract the qualified faculty and retain the existing ones the institution provides requisite facilities like transport for teachers coming from a distance, facilities like library, internet etc.

- High perks are offered to the qualified faculty.
- Flexibility in timings for senior faculty specially those who are in research.
- To encourage staff to participate in workshops and seminars the faculty is considered as on duty and are provided with TA /DA and also with other benefits to upgrade their knowledge by participating in national and international seminars.
- During the last three years many of our teachers have participated in number of state and national level conferences and workshops.

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
Ph.D.	15	Nil	Nil	Nil	Nil	Nil	15
M.Phil.	--	--	--	--	--	--	--
PG	--	--	24	5	116	15	160
UG	--	--	--	--	23	7	30

**2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

Efforts are being made to recruit able, knowledgeable, qualified faculty for all the programmes. In case of scarcity/unavailability for specific causes, senior and committed existing faculty is

identified and sent for advanced training by providing paid leave. All the expenses for the training being borne by the institute.

When new courses are introduced in to the curriculum by the universities few existing faculty in the department are identified for training. Workshop/FDP is planned to know about the new concepts. They are encouraged to participate in the Workshop/FDP organized by other colleges and universities to cope up with the new concepts. If necessary they will be sent to national laboratories/research centers/industries to provide special training.

S.No	Branch	Name of the faculty	Specialized subject
1	CSE	Mr .P Naresh	BIG DATA
2	CSE	Mr. K V Subrahmanyam	BIG DATA
3	EEE	Mr. T Srinivas rao	FACTS
4	EEE	Mr .P Anil Kumar	FACTS

A Workshop is organized in the college by SVNDT Visakhapatnam to provide necessary knowledge to the faculty.

### 2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

#### a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty Nominated
FDP programmes	87
Conferences, Seminars, workshops etc.	112

#### b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

- ❖ Teaching learning methods/approaches
- ❖ Handling new curriculum
- ❖ Content/knowledge management
- ❖ Selection, development and use of enrichment materials
- ❖ Assessment
- ❖ Cross cutting issues
- ❖ Audio Visual Aids/multimedia
- ❖ OER's
- ❖ Teaching learning material development, selection and use

#### Academic Year 2015-16

S.No.	Dept	Name	Period	Program
1	CSE	Prof.Madhu Mutyam, Dept of CSE,IIT,Chennai	2015-16	Layered Computer Design
2	CSE	Prof.N.L.Saikumar, IPE,Hyderabad	2015-16	Personality Development and Positive Attitude

3	ECE	Sri Bhagavan Prasad BSNL Representative, Visakhapatnam.	2015-16	Seminar on EETP program of BSNL
4	EEE	Prof. Jayatha Pal IIT,Bhuvanewar	2015-16	Seminar on “Model order reduction and genetic algorithm”
5	MECH	Prof. B.V.R. Gupta Former Proessor, Andhra University	2015-16	Kinematics and Machinery, Dynamics of Machinery
6	CSE	Sri J.Satyanarayana IT Advisor,Govt. of A.P	2014-15	Future Challenges in IT
7	CSE	Sri.Adapa Raja suresh kumar,CEO,Synchroserve Global Solutions pvt.Ltd,Hyderabad	2014-15	Outcome based Skill development

### c) Percentage of faculty

- \* invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies -3.4%
- \* participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies - 13.5%
- \* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies - 28%

### 2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

- Recharging the teacher / faculty, is a serious concern of the institution and it allows the faculty to attend the State level and National level Seminars.

#### Study Leave:

1. Any faculty applied for the study leave, maximum of six months it is provided and one faculty per department is encouraged in the same tenure.
2. For the part time courses, study leaves provided with pay to attend for the classes.

#### Research:

1. The College encourages its faculties to undertake department-wise R&D Activities along with Students and other Staff Members.
2. Staff members can submit their proposals through the Head of the Department and can avail the components, towards developing a prototype or model.
3. College encourages the faculty to submit research proposals to DST , AICTE and to the other funding agencies.
4. Faculty is encouraged to pursue Ph.D, by providing Saturday as leave on adjusting of the work load.
5. Faculty is encouraged for doing industrial visits to get the projects.
6. The College encourages its teachers to take consultancy and R&D assignments within Institution, with other institutions or Industries, appropriate to the teachers' competence.

**Paper Publications:**

- The institution provides on duty leave to faculty for participating and presenting papers at National and International seminars/workshops/conferences.
- Reimbursement of registration fee is provided based on the quality of the paper publication and reputation of Journal through its impact factor.

**2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**


**Faculty Appraisal for the year 2014-15**

The Faculty appraisals are decided based on their academic performance, feedback from the students and their contribution to the institute development. For the year 2014-15 following faculty are selected based on their performance. These appraisal certificate are hand over to the faculty on college day,(4<sup>th</sup> September 2014) and rewarded with Rs. 1000 per faculty.

S. No.	Name of the faculty	Dept.	Subject
1.	A. PARAYYA	S&H	ENGLISH
2.	J. KONDA BABU	S&H	ENGLISH
3.	MARAY THERESSA	S&H	ENGLISH
4.	P. ASHOK KUMAR	ECE	ES
5.	R. ANEEL KUMAR	ECE	TSSN
6.	MANGAMMA	MECH	CAD/CAM
7.	SUBRAHMANYAM	MECH	ASE
8.	G. BALAMURALI KRISHNA	MECH	UMP
9.	SHAJAHAN	MECH	M & MS
10.	V SUNEETHA	CSE	IRS

**2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?**

Yes. The feedback forms are collected from students on the performance of teachers and they are evaluated. Such evaluation is really improving the quality of teaching learning process. A faculty / teacher understands the area where he / she is very strong/ weak and suitable remedial measures are being taken through experts and visiting lecturers from internal and external sources.

 <b>AVANTHI INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> TAMARAV (VILL), MAKAVARPALEM (MO), VISAPATNAM (DIST). DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING		STUDENTS FEEDBACK OF B.TECH(CSE) SEM. 304-ADMITTED BATCH, ACADEMIC YEAR,2012-2014													
S. No.	Subject	Handling Faculty	About Teacher											Overall Percentage	
			Punctuality	Regularity	Audibility	Explanation	Teaching Aids Usage	Interaction with Students during class	Control over class	Follow up of student/ Attendance/ Tests	Motivation to students	Coverage			
1.	DS	P. Anish	5	5	5	5	5	5	5	5	5	5	5	5	34
2.	DLD	A. Deepesh	5	5	5	5	5	5	5	5	5	5	5	5	34
3.	MPCS	T. Hemant Kumar	5	5	5	5	5	5	5	5	5	5	5	5	34
4.	EDC	D. Sreetha Padmaja	5	5	5	5	5	5	5	5	5	5	5	5	34
5.	MEFA	P. Anish	5	5	5	5	5	5	5	5	5	5	5	5	32
6.	PAS	A. Ishwara Babu	5	5	5	5	5	5	5	5	5	5	5	5	34
7.	DS LAB	P. Anish	5	5	5	5	5	5	5	5	5	5	5	5	34
8.	EDC LAB	D. Sreetha Padmaja	5	5	5	5	5	5	5	5	5	5	5	5	34

Note: 1. Please read the statements carefully, think and enter the appropriate grading  
 Fair: 2, Poor: 1  
 Excellent: 4, Good: 3  
 2. Do not indicate your Name or Roll No.

## 2.5 Evaluation Process and Reforms

### 2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

A handbook which includes academic regulations, course structure and detailed syllabus is provided to all the students at the time of admission and it is available in the college website.

The Stakeholders of the institution i.e. students and faculty members and even the parents of the students are informed about evaluation process by giving general instructions mentioned in the prospectus of the institution.

The periodic instructions issued by the parent university are promptly communicated to the students. The students are individually provided with copies of the university syllabus which included the detailed evaluation procedure. Likewise they are informed at the start of the session regarding the terminal tests after the gap of three months. Students are clearly made aware of the eligibility conditions required to appear in the final exams. They are informed of the criterion of the internal assessment.

The evaluation is the integral part of teaching learning process. So, the institution makes effective arrangements for the smooth application of the rules about the evaluation processes. The college has developed a proper Mechanism for this purpose. Time to time staff meetings are also conducted to explain importance of evaluation process.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
EXAMINATION BRANCH, KAKINADA**

**II B.TECH - II SEMESTER (R13 REGULATIONS) I MID EXAMINATIONS, JAN – 2017**

**TIME TABLE**

BRANCH	DATE AND DAY					
	17-01-2017 (Tuesday)	18-01-2017 (Wednesday)	19-01-2017 (Thursday)	20-01-2017 (Friday)	21.01.2017 (Saturday)	23.01.2017 (Monday)
CIVIL ENGINEERING (01- CE)	BUILDING PLANNING AND DRAWING	HYDRAULICS AND HYDRAULIC MACHINERY	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (Com. to CE, EIE)	CONCRETE TECHNOLOGY	STRUCTURAL ANALYSIS - I	STRENGTH OF MATERIALS- II
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	ENVIRONMENTAL STUDIES	SWITCHING THEORY AND LOGIC DESIGN (Com. to EEE, ECE, EIE, ECC)	PULSE AND DIGITAL CIRCUITS (Com. to EEE, ECC)	POWER SYSTEMS-I	CONTROL SYSTEMS	ELECTRICAL MACHINES-II
MECHANICAL ENGINEERING (03- ME)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	THERMAL ENGINEERING –I	PRODUCTION TECHNOLOGY (Com. to ME, AME)	FLUID MECHANICS AND HYDRAULIC MACHINERY (Com. to ME, AME)	---	MACHINE DRAWING (Com. to ME, AME, MM)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	ELECTRONIC CIRCUIT ANALYSIS (Com. to ECE, EIE)	SWITCHING THEORY AND LOGIC DESIGN (Com. to EEE, ECE, EIE, ECC)	ANALOG COMMUNICATIONS	MANAGEMENT SCIENCE	EM WAVES AND TRANSMISSION LINES (Com. to ECE, EIE)	RANDOM VARIABLES AND STOCHASTIC PROCESSES
COMPUTER SCIENCE & ENGINEERING (05- CSE)	PROBABILITY AND STATISTICS (Com. to CSE, IT, CHEM, PE, PCE)	JAVA PROGRAMMING (Com. to CSE, IT)	ADVANCED DATA STRUCTURES (Com. to CSE, IT)	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	FORMAL LANGUAGES AND AUTOMATA THEORY	---

CONTINUED ON PAGE – 2

Academic calendar is common for all the affiliated colleges of the universities and is given to the colleges well in advance by the university. It includes schedule of internal exams, laboratory, external examinations and university strictly adheres to the schedule. There is no scope for the college to deviate the schedule as it is common to all the colleges. Hence college level activities/ events are planned keeping in mind the academic calendar by the university

**2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**

The students are allotted with roll numbers based on the code and criterion given by the affiliating university. The internal evaluation is conducted for theory subjects on basis of descriptive, objective tests.

The University reformed the evaluation process from **R13 regulation**.

University has changed the weightage of marks for both internal and external exams. The internal exams are weighed for 30 marks and external exams are weighted for 70 marks. The internal marks are distributed as follows:

Descriptive examination: 15M

Quiz examination: 10M

Assignments: 5M

From the academic year 2014-15 the quiz examination is reformed as online examination.

The external marks are distributed as follows:

PART – A: 22 M (One mandatory question)

PART – B: 48 M (Has to answer 3 questions out of 6 questions and equal weightage is given for each question)

In **R10 regulations** the internal examinations are weighed for 25M and external examination are weighed for 75M.

The internal marks are distributed as follows:

Descriptive examination: 15 M

Quiz examination: 10 M

The external examinations are for 75 marks (has to answer 5 questions out of 8 questions. Equal weightage is given for each question).

The university has initiated various evaluation reforms like

#### **Reforms initiated by the University:**

1. Introduction of internal assessment system.
2. Introduction of O.M.R Answer Sheets.

#### **Reforms initiated by the institution:**

1. Class tests and assignment tests are conducted to evaluate the performance of students.
2. Student centric learning through assignments, projects, seminars and practical sessions.
3. Periodical project reviews are conducted for assessment of student performance in projects.
4. Laboratory internal & external exams were evaluated by proper scheme of valuation.

#### **2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

The evaluation reforms of the university are followed in the best of the spirit. The evaluation is all fair; the students are satisfied by showing them the evaluated performance in the answer sheets. Any doubt about evaluation is made clear to the students. All records is maintained i.e. answer sheets, award lists etc. Whenever class tests and term tests are held the results of the student's performance/awards are shown to the students to encourage them or counsel them for better future performance. The institution has followed the improved examination system as prescribed by the JNT University, Kakinada.

Content beyond syllabus practices in courses, additional experiments in the laboratories, providing adequate importance to laboratory work, industrial training during summer, introduction of term papers and seminars, modernization and up gradation of equipment.

- Teacher evaluation by students (student feedback) and Self evaluation by teachers.
- Maintaining staff - student ratio as suggested by the AICTE.
- Schedule of lectures in advance by the teachers (planning).
- Regulation of students' attendance through monthly progressive reports and student counseling.
- Organizing seminars, workshops, expert lectures etc.,

- Deputation of the faculty to improve qualification and knowledge base.

**2.5.4 Provide details on the formative and summative evaluation approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.**

University is the sole authority for implementation of reforms in examination and evaluation but faculty members who are part of academic bodies of the university actively campaign for reforms. Even then for bringing about a positive change in the evaluation practices, the institution adopts both formative and summative methods of evaluation.

**Formative Assessment** - The goal of formative assessment is to monitor student learning, to provide ongoing feedback that can be used by instructors to improve their teaching and by students to improve their learning. Formative Assessment of the students is done on the following parameters:

1. Assignments
2. Presentations
3. Field visits
4. Industrial visits
5. Class interactions
6. Group discussions/Viva-voce
7. Workshops/Seminars
8. Research activities
9. Projects
10. Written and practical tests
11. Organizing functions
12. Curriculum based training
13. Social activities
14. Inter college competitions
15. Overall attendance and conduct during the session.

**Summative Assessment** – The goal of summative assessment is to evaluate student learning at the end of an instructional unit by comparing it against some standard or benchmark.. Summative Assessment takes place at the end of the academic session which is conducted by the college during the terminal test at the end of the semester. The university conducts a summative evaluation at the end of each semester through the following.

1. Written Exams
2. Practical Exams
3. Viva voce
4. Project work.



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY														
TAMARAM, MAKAVARAPALEM														
DEPARTMENT OF MECHANICAL ENGINEERING														
STUDENTS FEEDBACK FORM OF BTECH III-I (Batch -II) 14 ADMITTED BATCH , ACADEMIC YEAR 2016-17														
S NO	SUBJECT & HANDLING FACULTY	Punctuality	Regularity	Audibility	Board Work	Explanation	Teaching Aids Usage	Interaction With Students	Command Over Class	Follow up of Student	Motivation to Students	Syllabus Coverage	Overall Percentage	
1	DOM	4	4	4	3	4	4	4	3	4	4	4	85%	42
2	MC & MT	4	3	4	4	4	4	4	4	4	4	4	70%	43
3	DMM-I	4	4	3	4	4	4	4	4	4	4	4	80%	43
4	I&CS	4	4	4	3	3	4	4	3	4	3	4	90%	40
5	TE-II	4	4	4	4	4	4	4	4	4	4	4	98%	44
6	METROLOGY	4	3	2	4	2	3	4	4	2	3	3	55%	34
7	IPR&P	4	4	4	4	4	4	4	4	4	4	4	80%	44
8	M&I LAB	4	4	4	4	4	4	4	4	4	4	4	90%	44
9	MT LAB	4	4	4	4	4	4	4	4	4	4	4	90%	44

NOTE : 1. Please Read the statements carefully, think and enter their appropriate grading  
EXCELLENT : 4 , GOOD : 3 , FAIR : 2 , POOR : 1  
2. Do Not Indicate your Name or Roll no.

**2.5.5 Detail on the significant improvements made in ensuring strictness and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc).**

There is complete transparency in the internal assessment. The criterion adopted is as directed by the University. All the students are familiar about the transparency in internal assessment.

**UG: B.Tech**

The evaluation of the candidate is based on the continuous assessment. The structure for evaluation is as follows:

**For R13 Regulations:**

1. The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory subject and 75 marks for practical subject. The project work shall be evaluated for 200 marks.
2. For theory subjects 100 marks, that is divided as internal and external marks.
  - End Examination – 70
  - Internal Assessment marks – 30
3. For projects 200 marks, that is divided as internal and external marks.
  - End Review– 150
  - Internal Assessment marks – 50

However for reporting purposes a semester is divided into 2 discrete components identified as Mid1, Mid2. The better of the two tests will be considering. The weightage of internal marks distribution is as follows.

<u>Internal distribution</u>	<u>Descriptive</u>	<u>Assignment</u>	<u>Objective</u>
Marks	15	5	10

1. For the End semester Examination is conducted covering the topics of all units for 70 marks.

Part-A contains a mandatory question for 22 marks. Part-B has 6 questions. The students has to answer 3 out of 6 questions, these questions carries 16 marks each.

**For R10 Regulations:**

Internal and externals are conducted for 25 and 75 respectively.

1. Two internal examinations are conducted for every semester. Each internal examination consists of one descriptive and one online test for each subject.
2. The best of the two tests will be considered.

**Internal distribution    Descriptive    Online**

Marks                                  15                                  10

3. For the End semester Examination is conducted covering the topics of all units for 75 marks. The paper has 8 questions. The student has to answer 5 out of 8 questions, Each question carry 15 marks.

**PG: M.Tech**

Internal and externals are conducted for 40 and 60 respectively.

1. Two internal examinations are conducted for every semester. Each internal examination consists of four descriptive questions for 40 marks.
2. The average of two internals will be considered as final internal marks.
3. For the End semester Examination is conducted covering the topics of all units for 60 marks. The paper has 8 questions. The students has to answer 5 out of 8 questions, these questions carries 12 marks each.

**PG: MBA**

1. Two internal examinations are conducted for every semester.

The weightage of internal marks distribution is as follows.

**Internal distribution    Descriptive    Assignment    Seminar**

Marks                                  20                                  10                                  10

2. The average of two internals will be considered as final internal marks.

The internal assessment is made by the faculty Members keeping in mind the following aspects / factors of students' Performance during the academic year:

- 1) Class attendance
- 2) Class assignments
- 3) Score in the term examination etc.
- 4) CRT programs for internal training and higher education

Placement training is provided to the students beyond curriculum. Behavioral aspects and communication skills are comprehensive addressed in the placement training provided to the students. Communication skills are tested through report writings, presentations and group discussions

**2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?**

The College aspires transformational impact on students through comprehensive education by inculcating qualities of competence, confidence and excellence. The college has specified its graduate attributes clearly.

**The graduate attributes specified by the college are:**

- I. Engineering Knowledge
- II. Problem Analysis

- III. Design and development solutions
- IV. Investigation of complex analysis
- V. Modern tool usage
- VI. Engineer and society
- VII. Environment and sustainability
- VIII. Ethics
- IX. Individual and team work
- X. Communication
- XI. Project Management & Finance
- XII. Lifelong learning

**The college ensures the attainment of the attributes of the students by Mapping with PO s**  
 Taking the Graduate Attributes and POs prescribed by ABET as reference, the Departmental Assessment Committee (DAC) has adopted the following cycle to define the Pos and by Mapping the pos with student attributes

Sl. No	Graduate attribute	Programme Outcomes(a – k, l)
1.	Engineering Knowledge	A
2.	Problem Analysis	B,D
3.	Design and development solutions	C,D
4.	Investigation of complex analysis	A, B, C, D, F, J
5.	Modern tool usage	K, L
6.	Engineer and society	D,F,H
7.	Environment and sustainability	C, H
8.	Ethics	F
9.	Individual and team work	H
10.	Communication	G
11.	Project Management & Finance	H
12.	Lifelong learning	G

**Programme outcomes:**

- a. The graduates will demonstrate knowledge of mathematics, science and engineering.
- b. The graduates will demonstrate an ability to design and conduct experiments, analyze and interpret data.
- c. The graduates will demonstrate knowledge in c, c++ and java programming.
- d. The graduates will demonstrate their skill in applying software engineering methodologies in their project work.
- e. The graduates will be able to develop applications in networking using network simulators.
- f. The graduates will be able to comprehend the concepts of security threats and mechanisms to overcome them.
- g. The students will be able to groom themselves to the requirement of corporate challenges.
- h. The graduates will be capable of developing web based applications in specific verticals.
- i. The students will be able to understand and develop mobile applications and value added services for the 3g systems.
- j. The graduates will be able to demonstrate their understanding in the emerging areas of data mining and web mining.
- k. The graduates will be able to develop software components using emerging technologies like java, .net, python, perl, php etc.
- l. The graduates will be able to demonstrate their competitive skills among their peers.

**establish the correlation between the pos and the peos (5)**

	A	B	C	D	E	F	G	H	I	J	K	L
PEO1	√				√		√				√	√
PEO2	√	√	√		√			√		√	√	√
PEO3	√	√	√		√			√	√	√	√	√
PEO4			√	√		√	√	√	√	√	√	

SI No	PEO	Linked PO
1.	P1	A,E,G,K,L
2.	P2	A,B,C,E,H,J,K,L
3.	P3	A,B,C,E,H,I,J,K,L
4.	P4	C,D,F,G,H,I,J,K

## **PROGRAMME EDUCATIONAL OBJECTIVES:**

### **PEO I**

Graduates will have demonstrated a thorough grounding in the fundamental principles of Basic Sciences, English, other Engineering disciplines, Computer science & Engineering Subjects and practices of Computer Science and convey a professional attitude appropriate for a diverse world community.

### **PEO II**

Graduates will have undertaken complex problems and developed appropriate technical solutions.

### **PEO III**

Graduates will be prepared to communicate and work effectively on team based engineering projects and will practise the ethics of their profession consistent with a sense of social responsibility.

### **PEO IV**

Graduates will have demonstrated exposure to emerging and modern technologies to succeed in engineering profession in various agencies and also pursue advanced degrees in engineering.

## **2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

### **Mechanisms for redressal of grievances at the college level:**

- All grievances regarding evaluation, including the internal assessment marks awarded for the students, are redressed by committee which consists of faculty expert in corresponding subject and the Head of Department.
- In order to ensure transparency, the institution take cares by the internal marks are displayed in the notice boards and answer scripts of theory examination are given to the students for verification and corrective action if needed.

### **Mechanisms for redressal of grievances at University level:**

- The college has to follow the instructions of the university. If students have any problem, the principal of the college communicate to the concerning authority (Controller of Exams or other offices) of the university about the grievances of the students.

- The affiliating university does the evaluation of the external examinations. The students can approach university for any grievances on evaluation by applying for recounting/revaluation/challenge valuation.
- There is a provision for re-evaluation and is permitted on request. The Registrar coordinates with the other members of the Examination board and assists students in the redressal of their problems regarding conduction of examination, evaluation process and declaration of results. For this process, some re-evaluation fee is charged from the student and evaluation process is again repeated. The examination are conducted and controlled by the university.

## 2.6 Student performance and Learning Outcomes

### 2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes, the college has clearly stated learning outcomes mentioned in its Vision & Mission. These are made aware to students and staff through:

- Vision, Mission prominently put up at strategic places in the College
- During inaugural function every year the college learning outcomes and performance report given by the Principal.
- Student handbook given to students on the day they join the college.
- All the faculty of the institution is maintaining course files which contain micro- level lesson plans, time-tables, unit-wise assignment topics, sample answer scripts of internal examinations, scheme of evaluation for internal question papers, sample assignments submitted by the students and internal marks statements
- Updated laboratory manuals prepared by the senior faculty of the respective departments are maintained. The laboratory files which include master readings, model calculations, day to day evaluation sheets, experiments completion sheet, lab schedule etc. are made available

The Outcomes Pyramid shown below presents a pictorial clarification of the hierarchical relationships among several different kinds of goals, objectives, and outcomes that appear in assessment.



The 'pyramid' image is chosen to convey the fact that increasing complexity and level of specificity are encountered as one move downward. The pyramid structure also reinforces the notion that learning flows from the mission of the institution down to the units of instruction.

### **Mission Statements of the College and Program**

Mission Statement is a general, concise statement outlining the purpose guiding the practices of an institution. The student learning outcomes flow from the mission statements of the institution.

### **Goals of the Program (or Department)**

Goals should provide a framework for determining the more specific educational objectives of a program PEO, and should be consistent with the mission of the program and the mission of the institution.

### **Outcomes:**

**Learning Outcomes** are statements that describe significant and essential learning that learners have achieved, and can reliably demonstrate at the end of a course or program through assessment tools. Learning Outcomes identify what the *learner will know and be able to do* by the end of a course or program. The program outcome assessment plan is set to primarily confirm that the students are achieving the desired outcomes. It is also used to improve the program and the student learning, based on real evidence

**The learning outcomes approach to education** means basing program and curriculum design, content, delivery, and assessment on an analysis of the integrated knowledge, skills and values needed by both students and society.

### **2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.**

1. Two midterm tests are taken during the semester. These tests are both subjective and objective. The institution evaluates the students through two mid tests and assignments during the semester.

2. The report is sent to the head of institution after evaluating in a fair and open manner. The parents are informed through letters and even telephonically (for weak students).

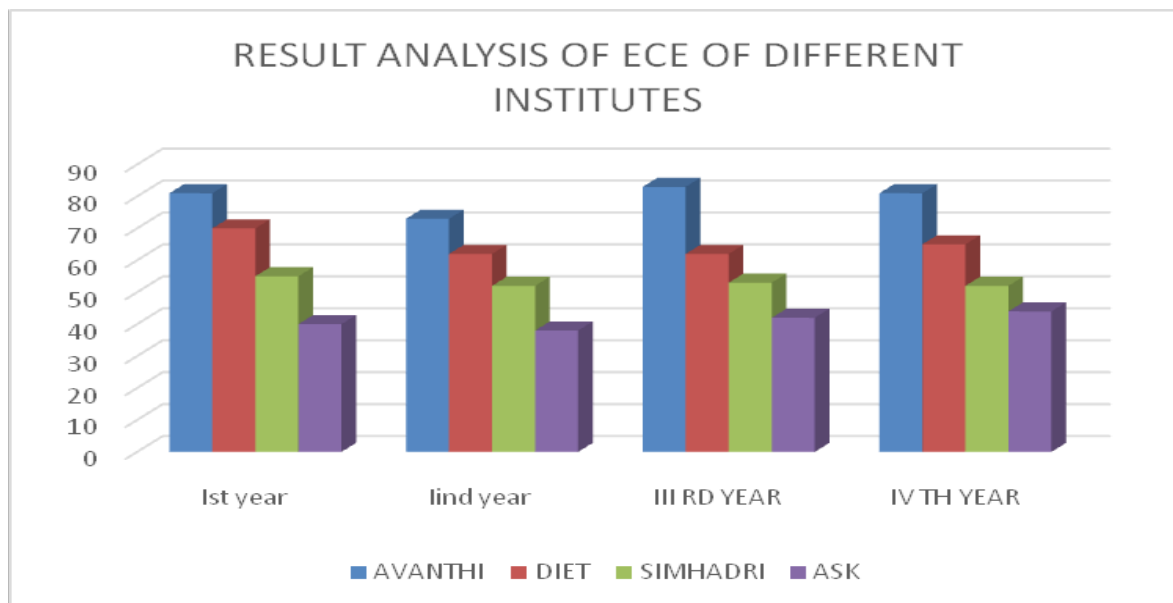
3. The students performance is closely monitored by their respective faculty mentors / counselors. The mentors interact with the Head of the department to suggest remedial actions such as extra classes and tutorials. The record of the whole evaluation process is transparent. The answer books are shown to the students. The head of the Department arranges to inform the parents through the following

- Display on the notice board
- Through periodic performance reports to the parents including attendance.
- Parents Teachers Meet

### **Result analysis:**

<b>Course</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
B.Tech(ECE)	81%	73%	83%	81%
B.Tech(EEE)	61.0%	70%	73%	81%
B.Tech(CSE)	69%	72%	72%	74%
B.Tech(ME)	69%	67%	83%	71%
MBA	54%	56%	93%	97%
M.Tech(CSE)	85%	59%	47%	75%
M.Tech(VLSI)	50%	61%	42%	60%
M.Tech(PE)	87%	36%	34%	76%

M.Tech(PS)	54%	25%	--	--
M.Tech(DECS)	48%	--	--	--



### 2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teaching-learning strategies are structured to facilitate the achievement of the intended learning outcomes by designing the academic plan, lesson plan, suitable teaching-learning methods, by implementing them with necessary additions or modifications as per need, and by evaluating the student's performance periodically.

- Students give feedback twice in a semester on Teachers and Teaching-Learning System for corrective actions.
- Students assess the level of achievement of course outcomes, at the end of every semester, to measure level program outcomes achievements in the institute assessment measures has done as direct and indirect.

Direct assessments provide for the direct examination or observation of student knowledge or skills against measurable learning outcomes. Faculty conduct direct assessments of student learning throughout a course are.

#### Direct Assessment Methods:

1. Using measurable performance
2. Indicators of Students' Performance
3. Exams
4. Assignments
5. Projects
6. Tutorials
7. Labs
8. Presentations

Project

Lab Record  
certificate





## II. Indirect Assessment Method:

Indirect assessments of student learning ascertain the perceived extent or value of learning experiences. They assess opinions or thoughts about student knowledge or skills. Indirect assessment methods are:

1. Ascertaining opinion or
2. Self reports
3. Alumni Feedback
4. Employer Feedback
5. Course-end Feedback

**Student  
Feedback**

**Course Learning  
Outcomes**



S. No	Name of the Resource Person/ Organization	Name of the Program	Dates
<b>2015-16</b>			
1	Sri J.Satyanarayana I.A.S Advisor,IT,Govt.of Andhra Pradesh.	Future Challenges in IT and Skill Development	6-10-2015
	Sri. Adapa Raja suresh Kumar Founder & CEO,Synchroserve Global Solutions Pvt.Ltd.Hyd.		
2	Sri M.Srikanth National Head Academy of Robotics	Entrepreneur development program &Two days workshop on Robotics and embedded systems	16 <sup>th</sup> to 17 <sup>th</sup> Oct 2015
<b>2014-15</b>			
1	Sri Rayaprolu S.S Sarma Head Virtusa,Hyd	Career Opportunities	13-02-2015
2	Dr .M Laxminarayana Scinetist'H',DLRL&Vice Chairman,IEEE Hyd Section	Future Challenges in Military and Role of DLRL	14-02-2015
3.	Sri T.Vasudeva Rao Head, Startup Village,Visakhapatnam	How to start SSI unit, general & financial aspects of SSI, Salient futures of project report	14-02-2015
4.	Sri Narendra Nerla Vice President,Inspire Edge IT Solutions,VSP	Future Challenges in IT and Skill Development	14-02-2015
5	Dr .Deepak L.Waikar Energy consultant, Singapore	A two day skills, development workshop on sustainable and clean energy technologies resources	22 <sup>nd</sup> to 23 <sup>rd</sup> Jan 2015
6	JNTUK,Kakinada & Avanathi institute of engineering and technology & Visakhapatnam port trust.  M.T.KRISHNA BABU, IAS Chairman, VISAKHAPATNAM PORT TRUST & Dr. G. Tulasi Ram Das, Vice Chancellor , JNTU Kakinada	Exploring entrepreneurship opportunities in Andhra Pradesh” Organised by centre for entrepreneurship development JNTUK,Kakinada in association with Avanathi institute of engineering and technology&Visakhapatnam port trust	10 <sup>th</sup> to 11 <sup>th</sup> Oct 2014

<b>2013-14</b>			
1	Sri S.SURYA Shankar,DGM(Telecom) Visakhapatnam Steel Plant	Career Opportunities in BSNL	5-04-2014
2	Sri K srinivasa Rao Div.Manager(Lines) APTRANSCO,Kalpaka	Career Opportunities in APTRANSCO	5-04-2014
3	Sri N Rajesh Group Head(Enterprise Marketing) Miracle Software systems	Historical background to Indian values entrepreneurship in the present scenario	5-04-2014
4	Sri M Prasad Sr.DGM(E&I),ANRAK,Makavarapalem	Career Opportunities	4-04-2014
5	Sri K Ajay Associate Vice-President,ANRAK,Makavarapalem	Career Opportunities	4-04-2014
6	E-Plus club To improve communication Skills	Organizing inter collegiate E-Plus Club Challenge	Feb 22 2014
<b>2012-13</b>			
1	Mr. Abraham Vergheese, Scientist-F, NSTL, Visakhapatnam	Enterprenincial oriented programme	22-03-2013
2.	Mr. K. Veeru Naidu, TCS, Hyd	Career Opportunities	22-03-2013

### **LIST OF INHOUSE TRAINING PROGRAMS CONDUCTED**

<b>Academic Year</b>	<b>NAME OF THE AGENCY</b>	<b>DATE</b>
<b>2015-16</b>	Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	<b>29-09-2015</b>
	IBM-blue MIX technologies. IBM. Hyderabad	<b>29-09-2015</b>

	Soft Skills , Group Discussion & Personal Development.Senior Trainer.JKC.Hyderabad	<b>30-09-2015,01-10-2015</b>
	CRT Classes by OMEGA Career Solutions. Hyderabad	<b>Every Year</b>
<b>2014-15</b>	Globarena -Hyderabad(JNTUK Partner)	<b>Aug 2014-Dec 2014</b>
	CRT Classes by OMEGA Career Solutions. Hyderabad	<b>July 2014 to Feb 2015</b>
	Soft Skills , Group Discussion & Personal Development. Senior Trainer,JKC,Hyderabad	<b>9-09-2015 to 10-09-2015</b>
	IBM-DB2 Workshop by JKC.Hyderabad	<b>10,11 Nov 2015</b>
<b>2013-14</b>	IBM Worklight by IT Associate.JKC	<b>29-03-2014</b>
	Globarena -Hyderabad(JNTUK Partner)	<b>Sep 2013 to Jan 2014</b>
	Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	<b>Aug 2013- Sep 2013</b>

**c. Innovation:** For innovation in research students are encouraged to undertake, participate in research projects, national seminar & conference. Research advisory committee identifies the various fields of research and assigns the research topic to relevant department.

**d. Research aptitude:** There is no provision for enhancing research aptitude. However preparation of field study report, project report and laboratory experiment done by the students may be considered as the first step to ignite their research aptitude.

Students are motivated through personality development and encouraged to participate in activities for social and community service. In Our institute NSS implements the issues in society such as tree-plantation, eradication of child labor and other issues in rural areas.

**e. NSS:**

Social activities are conducted in our college through NSS

Events organized by NSS:

**2015 – 16:**

<b>S. No</b>	<b>Details of the Activity</b>	<b>Place</b>	<b>Date</b>	<b>No. of Participants</b>
1.	Independence day celebrations: flag hosting,speeches competitions in rangoli and	College Campus	15-08-2015	200

	patriotic songs.			
2.	Teachers Day Celebrations garlanding and floral tributes to Dr.Radhakrishnan.speeches on Dr.Radhakrishnan's life,works and philosophical writings.	College Campus	05-09-2015	400
3.	Campus cleaning: removing of plastic waste material.	College Campus	14-11-2015	150
4.	Birth Celebrations of Subhashchandrabose.Garlanding the portrait,speeches by Principal,Staff and students.	College Campus	23-01-2016	400
5.	Republic Day Celebrations: flag hosting,speeches and gymnastic presentations by students.Rangoli and elocution competitions.	College Campus	26-01-2016	200
6.	Awareness campaign on ship building organized by NSS unit. Shipyard DGM sri.Perummal,AGM sri.Srinivasarao has given powerpoint presentation.	College Campus	09-02-2016	300

### **2014 – 15:**

<b>S. No</b>	<b>Details of the Activity</b>	<b>Place</b>	<b>Date</b>	<b>No. of Participants</b>
1.	“CLEAN and GREEN” Campus Cleaning programme following the dictum ‘Dignity of labor’.	College Campus	05-07-2014	120
2.	Independence Day Celebrations.Flag hosting by Dr.C.Mohanrao,Principal and faculty members addressed the students.An exhibition of photographs of freedom fighters.singing the patriotic songs by students.	College Campus	15-08-2014	600
3.	Teachers Day Celebrations garlanding and floral tributes to Dr.Radhakrishnan.speeches on Dr.Radhakrishnan's life,works and philosophical writings.	College Campus	05-09-2014	800
4.	Removing waste material from “HudHud” hit GVMC Girls High School,Anakapalle.Sri M.Srinivasarao,MP and Chairman of Avanthi Group of colleges,Principal,Staff and volunteers participated.	GVMC Girls High School,Anakapalle	22-10-2014	150
5.	Campus cleaning: removing of plastic waste material.	College Campus	14-11-2014	150

6.	Republic Day Celebrations: Flag hosting by principal Dr.C.Mohanrao.speeches by faculty and students.cleaning of waste material on roadside for a distance of 1km.	College Campus and road near by	26-01-2015	300
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### **2013 – 14:**

<b>S. No</b>	<b>Details of the Activity</b>	<b>Place</b>	<b>Date</b>	<b>No. of Participants</b>
1.	Plantation programme in the campus. The volunteers planted neem saplings and watered them. They planted about 200 saplings around the college building. The program was inaugurated by Dr.C.Mohanrao, Principal of the college.	College Campus	13-06-2014 & 14-06-2014	150
2.	Road safety awareness programme.	College Campus	20-05-2014	250
3.	Literacy Campaign, books and pens were distributed to the students. program launched by Dr. C. Mohan Rao	Upper primary School, Thamaram	19-05-2014	100
4.	Awareness Programme on Communicable diseases.	Thamaram village	05-05-2014	
5.	RTI Awareness: There was an meeting for the villagers on RTI, Convener RTI Rakshana vedhika,North Andhra Region.	Thamaram village	25-04-2012	
6.	Cleanliness Campaign: Dr. C. Mohan Rao, Principal addressed the villagers of the importance of cleanliness. Volunteers presented Skits on individual cleanliness	Pyidipala village	18-04-2014	
7.	Campus cleaning.	College Campus	19-03-2014	100
8.	Youth Festival: Youth festival celebrated on the occasion of Swami Vivekananda birthday. Swami Gunesananda of Ramakrishna Mission Visakhapatnam addressed the students.	College Campus	15-02-2014	200

### **2.6.5 How does the institution collect and analyse data on student learning outcomes and use it for planning and overcoming barriers of learning?**

Institution has specified procedure to collect and analyze data on student learning outcome, the following points are adopted by the institute in this context:

- Midterm and continuous evaluation comprising of internal tests, assignments, group discussions and seminar presentations.
- Tutorials, class tests, viva in the lab
- Mini project

- Annual system of examination for all courses.
- Seminar presentation by students.

**Institute has taken following steps to overcome barriers:**

- Providing Question bank of various subjects to the students.
- Timely Redressal of students grievances.
- By showing answer books to students to make them understand their relative strengths and weaknesses.
- Minimum attendance limit for students to minimize absenteeism.
- Measures like remedial classes, assignments and extra classes are conducted for slow learners.
- counseling classes for weak students in the subjects to improve their performance
- Periodic evaluation helps the improvement of learning outcome
- Communication English classes are conducted to improve their oral, written and conversational skills to help them to cope up with the subject.
- The intended data is collected feedbacks from parents, alumni, experts from industry and the same is analyzed in order to overcome the barriers of learning.

**2.6.6 How does the institution monitor and ensure the achievement of learning outcomes**

The IQAC of college have the following mechanism to monitor the students learning outcomes.

	<b>Assessment Tool</b>	<b>Assessment Frequency</b>	<b>Assess by</b>	<b>Reviewed by</b>
Cos(Course learning outcomes)	Assignments Examinations Projects	Four times in Semester Twice in a Semester Once in a Academic Year	Faculty Faculty Faculty	Faculty Department Department
POs (programme outcomes)	Assignment Examination CO Feedback Faculty Feedback	Four times in Semester Semester End Semester End <b>Once in a semester</b>	Faculty Examiners Faculty Department	Faculty University Department HOD/principal
PEOs( Programme Educational objectives )	Employer Feedback Alumni Feedback	Every Year Every Year	Institute / Department	HOD/Principal HOD/Principal

Based on the following assessment methodology the evaluation will be done on learning outcomes.

- Assessment of Outcomes from Student's Attainment



- Assessment of Outcomes Due To Faculty Contributions and Achievements
- Assessment Of Outcomes From Placement
- Assessment of Outcomes By External Stakeholders

**2.6.7 Does the institution and individual teachers use assessment/evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples.**

Yes. The indicators used by institution and individual teachers to assess the student performance are:

- Marks in internal exams.
- Class room performance and Behavioral aspects.
- Communication skills.
- In addition to the above, the introduction of the process of evaluation of teachers by the students is really improving the quality of teaching learning process. A faculty / teacher understands the area where he / she is very strong/ weak and needed remedial measures are being taken through experts and visiting lecturers from internal and external sources.

The following are the methods of assessment used as indicators of student performance:

<b>S. No</b>	<b>Assessment Criteria</b>	<b>Learning Outcome</b>
1	Assignment assessment	To improve the performance of slow learners
2	Course learning outcome assessment	To improve the teaching learning process
3	Exit student Feedback assessment	To enrich the curriculum
4	Project assessment	Helps in gaining in depth knowledge
5	Attendance Assessment	Leads to regularity and punctuality

### CRITERIA III: RESEARCH, CONSULTANCY AND EXTENSION

#### 3.1 Promotion of Research

##### 3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

NO

The Institution has no recognized research center even though the following activities are conducted under research

- The Institution has formed different research groups based on area of specialization.
- Each group consists a group head followed by faculty members and students.
- Departments conduct workshops, presentations and awareness programs towards developing research activities.

##### 3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes.

Institutional R&D committee:

Co-ordinator : Dr. Ch.Srinivasu

Sl.No	Branch	Name of the faculty
1	ECE	Dr. Ch. Srinivasu
2	CSE	Dr.C.P.V.N.J Mohanrao
		G.Apparao naidu
		M.Naresh babu
3	EEE	T Srinivas Rao
		Dr. R.V.Amarnath
4	MECH	B. Ramesh
		N. Prakash Kumar

Based on the recommendations made by the Research and Consultancy Advisory Board

- Suitable training programmes are suggested for staff and students.
- The committee continuously reviews the work of Ph.D. research scholars.
- Various National and International conferences in emerging areas are organized.
- Faculty members are preparing and submitting research proposals to various funding agencies.
- Internal assessment of the research proposals are done by the advisory experts from External committee
- External committee is entrusted with the task of identifying and recommending the projects which are suitable for internal funding

### **3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?**

#### **▪ Autonomy to the principal investigator**

- Faculty members are engaged with doctoral and other minor & major research projects. The principal investigator has full freedom in deciding the research area, research methodology, choice of books and instruments/equipments etc. for conducting the research projects.

#### **▪ Timely availability or release of resources**

- Institute provides all facilities and maintains timely release of funds for successful completion of the project in time.

#### **▪ Adequate infrastructure and human resources**

- The departments have established well equipped research labs with necessary software and computing facilities to carryout research projects.
- College recruited senior faculty possessing Ph.D. degree who is competent to take up and guide research projects. Central library facilities are enhanced up dating with online national and international journals, digital library, hand books, reference books and material related to research activity.
- The work- load of the faculty will be adjusted to meet any such demand that requires his/her presence in a project.

- **Time-off, reduced teaching load, special leave etc. to teachers**
- Faculties working on major research projects are given the facility to reduce their teaching work load to spend more time on research work.
- Institute sanctions academic leaves to faculty members for attending the workshops/seminars relevant to their research projects and associated works.
- **Support in terms of technology and information needs**
- The institute/department encourages the students and faculty to utilize the laboratories, library, computer centre and software for carrying out their research projects and also provides facility for obtaining the necessary information and technology from external sources.
- **Facilitates timely Internal audit and external audit and submission of utilization certificate to the funding authorities**

**3.1.4 What is the efforts made by the institution in developing scientific temper and research culture and aptitude among students?**

- All the staff members are advised to give the assignments and tutorials in such a way that students are motivated to refer to the latest journals while answering.
- To develop scientific temper and aptitude, the institution organizes tours to various organizations for the students of all departments.
- Various departments of the college also organize national level seminars, Workshops, awareness programs and technical events to create curiosity among the students as well as to get a chance to meet with the distinguished personalities of the related area.
- Interaction with scientists/ researchers to build scientific temper.

S.No	Name of the Event	Organized under	Date(s)	Activities organized
<b>Academic year 2015-16</b>				
1.	PRERANA	College/ EEE	12 <sup>th</sup> & 13 <sup>th</sup> Feb 2016	Paper/Postal presentation, Technical Quiz, Guest lectures
2	Make a ROBO- 2015	MECH	17 <sup>th</sup> & 18 <sup>th</sup> Oct	Conceptual learning Hands on experience

			2015	
3	Induction meet Seminar on future challenges in IT & Skill Development	College/ EEE	6 <sup>th</sup> Oct, 2015	Paper/Postal presentation, Technical Quiz, Guest lectures
<b>Academic year 2014-15</b>				
1	ANVESHANA 2K15	EEE	13-14 <sup>th</sup> Feb 2015	Paper/Postal presentation, Technical Quiz, Guest lectures
<b>Academic year 2013-14</b>				
1	ABLAZE- 2K14	ECE	4 <sup>th</sup> April 2014	Paper/Postal presentation Technical Quiz, Guest lectures
2	TECH REPARIO	College	4 <sup>th</sup> & 5 <sup>th</sup> April 2014	Paper/Postal presentation Technical Quiz, Guest lectures
<b>Academic year 2012-13</b>				
1	OMNIS 2K13	EEE	28 <sup>th</sup> Feb 2013	Paper/Postal presentation Technical Quiz, Guest lectures
2	ECHELON-2K13	IETE	1 <sup>st</sup> and 2 <sup>nd</sup> March 2013	Paper/Postal presentation Technical Quiz Guest lectures
<b>Academic year 2011-12</b>				
1	E-CUBE	EEE	7 <sup>th</sup> Feb 2012	Paper/Postal presentation Technical Quiz, Guest lectures
2	ANUSTHANA	ECE	29 <sup>th</sup> Feb & 1 <sup>st</sup> March 2012	Paper/Postal presentation Technical Quiz, Guest lectures

3	YANTRIK	MECH	19 <sup>th</sup> March 2012	Paper/Postal presentation Technical Quiz, Guest lectures
4	RESONANCE- 2K12	College	5 <sup>th</sup> & 6 <sup>th</sup> April 2012	Paper/Postal presentation Technical Quiz, Guest lectures
5	SUPRAYOGA	MBA	20 <sup>th</sup> April 2012	Paper/Postal presentation Technical Quiz, Guest lectures
<b>Academic year 2010-11</b>				
1	SUSTANVITO	CSE, IT, MCA	25 <sup>TH</sup> March 2011	Paper/Postal presentation Technical Quiz,, Guest lectures
2	ZAKTI	EEE	12 <sup>th</sup> March 2011	Paper/Postal presentation Technical Quiz, Guest lectures
3	ADWITIYA	ECE	4 <sup>th</sup> &5 <sup>th</sup> March 2011	Paper/Postal presentation Technical Quiz, Guest lectures
4	SANKETIKA SAMAHAR	College	27 <sup>th</sup> -28 <sup>th</sup> September 2010	Paper/Postal presentation Technical Quiz, Guest lectures
5	AIKYATHA	MBA	9 <sup>th</sup> April 2011	Paper/Postal presentation Technical Quiz, Guest lectures

**3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.**

Some of the faculty members are actively involved in research activity at their own level. Faculty members from various departments have made their mark by completing their research attaining PhD degree .

S.No	Name	Department	Research	Specialization area
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			<b>Activity</b>	
1.	Dr.C.P.V.N.J Mohanrao	CSE	Guided 2 Ph.D. students 1)Mr. Prem Kujan, Scientific officers,ECIL, Hyderabad 2)Mr. L.S.Reddy S/w Engineering,T CS,Chennai	Software Engineering
2.	Dr. Ch. Srinivasu	ECE	7 students are being guided for Ph.D.	Image Processing
3.	Dr. Rahmatulla	H & S		Mathematics
4.	Sri. R.Uma Maheshwara Rao	MECH	Ph.D.	Industrial Engineering
5.	Sri. B. Ramesh	MECH	Ph.D.	HTES
6.	Sri. T. SrinivasaRao	EEE	Ph.D.	Power systems
7.	Sri. R. Prasad Rao	ECE	Ph.D.	Micro wave
8.	Sri. V.S. Prasanth	MBA	Ph.D.	Marketing

**Faculty contribution:**

Sl.No	Name of the Faculty	Department	No.of papers
1	Dr. C PVNJ Mohan Rao	CSE	26
2	Dr. M. Prasada Rao	CSE	13
3	Dr. K. Phani Krishna	CSE	10
4	Dr. M. Jyothi	MBA	04

5	Dr. Ch. Srinivas	ECE	15
6	Dr. P. Mohanayya	ECE	12
7	Dr. R. Uma maheswara rao	MECH	14
8	Dr. T. Venkateswara Rao	MECH	08
9	Prof. K.V.V. Satyanarayana	Chemical	16
10	Prof. N. Aruna	Chemical	12
11	Prof. SVJ Swamy	Chemical	46
12	Prof. Md. Rehmatulla	Maths	06
13	Prof. C.G. Rama Rao	Physics	60
14	Dr.R.V. Amarnath	EEE	15

**Faculty guiding for M.Tech students:**

Academic year	No of faculty	No of students
2015-16	15	16
2014-15	15	18
2013-14	20	26
2012-13	17	25
2011-12	19	30

**3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.**

- The college periodically conducts various programmes like workshops, seminars and training with a focus on strengthening the research culture among teaching staff and students by inviting researchers and academicians of different fields.

**ECE DEPARTMENT**

S.No	Name of the invitee & Designation	Topic of Lecture	Date & Year
<b>2015-16</b>			
1	Prof.C.B.Ramarao	Telecommunication broad band(2G,3G,4G)	13-3-2016
2	Sri J.Satyanarana,I.A.S,Advisor IT Govt.of Andhra Pradesh	A seminar on Future Challenges in IT and Skill	06-10-2015



		Development	
<b>2014-15</b>			
1	Prof. B. Prabhakara Rao, Professor, ECE – JNTUK	New generation electronics & communications	14 <sup>th</sup> of Feb 2015
<b>2013-14</b>			
1	Prof .B.Prabhakara rao,Dept of ECE,JNTUK	AWP	9-08-2013
2	MR .P.Sudhakar,Assoc.Prof of vignan womens engg college	DICA	7-9-2013
3	Prof. Linga murthy, Professor,EEE,GITAM	Power quality issues	21-9-2013
<b>2012-13</b>			
1.	Mr. K Srinivas, Govt. Polytechnic, Visakhapatnam	EDC	23 <sup>rd</sup> Sep 2012
2.	Mr. K Srinivas, Govt. Polytechnic, Visakhapatnam	Antenna & Wave propagation	19 <sup>th</sup> Sep 2012
3.	Mr. Satish Kumar, Lendi Engineering college, Visakhapatnam	MPMC	16 <sup>th</sup> Dec 2012

## MECH DEPARTMENT

### Workshops:

S.No	Module Description	Any other contributory industry/institute	Duration	Resource person	Partic ipants
1	Heat transfer and thermal engineering applications in industry & project	NIT, Warangal	1 day	Prof. M.Bangaru babu	120

	management				
2	Work Shop(HAPTIC ARM)	Academy Of robotics	2 days	Mr. Srikanth	84

**Special Guest Lectures:**

S.No	Name	Qualification	Designation	Subjects
1	Dr. B.V.R. Gupta	Ph.D.	Former Professor, Andhra University	Kinematics and Machinery, Dynamics of Machinery
2	Dr. N .Suman	Ph.D.	Proressor, Andhra University	Mechanics of Solids, Engineering Mechanics
3	Dr. K Durga Prasad	Ph.D.	Proressor, GVPCOE	Refrigeration & Air conditioning, Thermodynamics
4	Dr. Madhu Mutyam	Ph.D.	Professor,IIT, Chennai	Introduction to types of processors
5	Dr. M.Bangaru babu	Ph.D.	Professor,NIT, Warangal	Heat transfer and thermal engineering applications in industry & project management
6	Dr. Jayantha pal	Ph.D.	Professor,IIT, Kharagpur	Model ordered reduction
7	Dr. C.B.Rama rao	Ph.D.	Professor,NIT, Warangal	Introduction about broad band(2G,3G,4G)

8	Dr. Madhumutyam	Ph.D.	Professor,IIT, Chennai	Layered computer design
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### CSE DEPARTMENT

S. No	Year	Name of the Industry	Name of the Entrepreneur	Topics covered
1	2010-11	Visakhapatnam Steel Plant.	Sri. T Rajeswara Rao HOD, IT Department, Visakhapatnam Steel Plant	He addressed about career opportunity in Public sector units.
2	2011-12	Mahendra Satyam, VITA.	Sri. Ravi Easwarapu, Head, Mahendra Satyam, VITA.	Delivered a speech on bridge up the gap between industry and academia.
3	2011-12	Symbiosis	Mr. O. Naresh	Orientation programme on opportunities in IT and related disciplines
4	2012-13	Mahendra Satyam Visakhapatnm	Sri Viswanadham Head, Mahendra Satyam	A seminar on IT industry and its Requirements.
5	2012-13	Mahendra Satyam Hyderabad	Sri Satya Topali	An interaction session on career in IT and how to achieve it.
6	2012-13	NSTL, Visakhapatnam	Dr R V S Subhramanyam	Role of young engineers in research and development.

7	2015-16	NSTL, Visakhapatnam	Sri. P.V.S Ganesh kumar, Assoc Director	Role of young engineers in research and development.
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**EEE Department:-**

1	2010- 2011	Lecture on "An introduction to neural networks & its applications"	27/03/2010	Prof. B. Murali Mohan, IIT Kharagpur
2		Lecture on "Application of control systems to under water vehicles"	27/03/2010	K.V.Rao, DGM (Electrical), NTPC
3		Lecture on "Power quality"	28/03/2010	Prof. V. Bapi raju, AUCE(A), Vizag.
5		Lecture on "Basics in Power Electronics"	27/03/2010	Prof. V. Bapi raju, AUCE(A), Vizag
6		Lecture on "An over view of Indian Power sector and power distribution automation"	28/09/2010	Prof. U. Tataji, Vice Chairman, APSICHE.
7		Lecture on "Challenges of Power System Engineer"	28/09/2010	T. Ramesh, C.E, APTRANSCO
8		2011 – 2012	Lecture on "Active and Reactive Powers, excitation systems and Power system Stabilizer"	12/03/2011

9		Lecture on "Control of systems with Flexible modes"	12/03/2011	Prof. M. Ramalinga Raju, HOD, EEE Dept, JNTU-K
10		Lecture on "EHV transmission"	12/03/2011	G. Ravi Kumar, SC-F, NSTL, Vizag
11		Lecture on "AC & DC DRIVES"	12/03/2011	E. Kali Prasad, DGM, MMSM
12	2012 – 2013	Lecture on "An over view of Indian power sector and power distribution Automation"	07/02/2012	Prof. Ch. Sai Babu, HOD, EEE Dept, JNTUK.
13		Lecture on "Transformers: Construction, testing and failures"	07/02/2012	Prof. P. Mallikarjuna rao, AUCE(A)
14		Lecture on "Advanced Control Systems"	07/02/2012	Prof. B. Murali Mohan, IIT Kharagpur
16	2013 – 2014	Lecture on "Quality Assessments"	12/08/2013	G. Ravi Kumar, SC-F, NSTL, Visakhapatnam
17		Lecture on " Mechanical Design of Overhead Lines & Sub-Stations	21/10/2013	N. Prasad, CGM, APEPDCL
18	2014-2015	Lecture on " Advanced Power Electronic		Prof. Sai Srinivas, IIT Madras

		Controlers”		
19	2015-2016	Lecture on “ Model ordered reduction”	13/3/2016	Prof. Jayantha Pal, IIT Bhuwaneswar

**EEE Workshops:**

S.No	Module Description	Any other contributory industry/institute	Duration	Resource person	Participants
1	Skill Development Workshop on Sustainable and clean energy technological & Resources	Singapore Energy audit , Singapore	22&23 January 2015, (2 days)	Sri. Deepak walker , Singapore	110nos.

**Mechanical Department:**

S.No	Topic	Resource person	Duration	Participants
1	Personality Development and Skill development	Dr. K V S G Murali Krishna Professor of civil Engineering,JNTUK	1 day	IV- Mech
2	Solar Energy & Renewable Management	Department of Mechanical Engineering, IIT-Chennai. Dr. K. Srinivasa Reddy	1day	IV- Mech
3	Industrial Opportunities	Sri. L.S Rao Vice- President An-Rak Aluminum Limited,	1 day	IV- Mech

	and HRM	Makavaripalem		
4	Industrial Skill development	Sri. R. Santosh Kumar ,Research Engineer , ISUZI	1 day	IV- Mech

### 3.1.7 Provide details of prioritised research areas and the expertise available with the institution.

#### a) Identify the research groups and each faculty

Sl.No	Name of the group	Experts
1	Power systems	T. Srinivasa rao
2	Power electronics	G. Rajasekhar yadav
3	Machine Design	P.Anil Kumar
4	Machine Design	M.V. Ramana Murty
5	Signal Processing	Dr. Ch. Srinivasu
6	Embedded systems	E. Govinda
7	Communication engineering	R. Prasad Rao
8	CAD/CAM	V. Hari Kiran
9	Machine Design	K. Nagaraju
10	Thermal engineering	S. Ravi teja

#### b) prioritized research

Sl. No	Prioritized research area	Expert	Facilities
1	Radar Signal processing	Dr. Ch. Srinivasu	Digital Signal Processing lab with spectrum analyzer
2	Embedded systems	E.Govinda	Embedded lab
3	Micro wave Engineering	R. Prasad rao	MicroAnteena measurements Lab
4	Power system	T. Srinivasa rao	High Voltage Lab
5	Power electronics	G. Raja sekhar yadav	Power electronics and drives Lab
6	Electrical Machines	P. Anil kumar and M.V. Ramana Murty	Machine Design Lab

7	Manufacturing systems	K.Naga raju	Metal cutting and machine tools Lab
8	Thermal Engineering	S. Ravi teja	Fuels and oils Lab

c) list of faculty and their specialization

<b>S.No</b>	<b>Name of the faculty</b>	<b>Expertise Area</b>	<b>Dept.</b>
1	Dr. Ch. Srinivasu	Signals and systems	ECE
2	Mr E Govinda	DSCE	ECE
3	Mr R Prasada Rao	DSCE	ECE
4	Mr B.N Srinivasarao	VLSI	ECE
5	Mr M Kedareeswara	Instrumentation	ECE
6	Mrs Ch.V. Sridevi	Radar and Microwave	ECE
7	Mr T Pattala Naidu	Instrumentation	ECE
8	Mr M. Ranganath Sarath	DSP	ECE
9	Mr Y Naveen Kumar	CS	ECE
10	Ms D Prasanna Kumari	VLSI D	ECE
11	Mr V V Satya Narayana	ECE	ECE
12	Mr D Rahul	VLSI D	ECE
13	Mr P Ashok Kumar	VLSI D	ECE
14	Mr R Aneel Kumar	VLSI SD	ECE
15	Mr P Sahitya Kiran	DSP	ECE
16	Mr K.Uma Shanker	VLSI	ECE
17	Mr .D Lakshminarayana	Radar and Microwave	ECE
18	Mr. Venkata Ganesh	VLSI SD	ECE
19	Mr G.Venkata Rao	VLSI SD	ECE
20	Mr K Chandra Sekhar	VLSI	ECE
21	Ms P Sri Satya	Radar and Microwave	ECE
22	Mr SV Sudheer Kumar	VLSI SD	ECE
23	Mr K.Sateesh Kumar	Radar and Microwave	ECE
24	Mr K.Santosh kumar	C& SP	ECE
25	Mr T.Sreedhar	DSCE	ECE
26	Mrs P.Raghava kumara	DECS	ECE
27	Mr K.Dhilli	DECS	ECE
28	Mr Balaji KA	VLSI	ECE
29	Mr D Sreenivasa rao	ECE	ECE
30	Ms. R.Ramya	Radar and Microwave	ECE
31	Dr. R V Amarnath	Power Systems	EEE
32	V V Satyanarana murthy	Power Systems	EEE
33	T Srinivasarao	Power Systems	EEE
34	M V RamanaMurty	Power Systems	EEE
35	D K A S Prasad	Energy management	EEE



36	P Anil Kumar	Power electronics and electrical drives	EEE
37	P Varahala Dora	Control systems	EEE
38	K. Tejeswara Rao	Power systems and automation	EEE
39	K Durga Rao	Instrumentation & Control Systems	EEE
40	U Anjaiah	High Voltage Engineering	EEE
41	S Sujatha Devi	Control systems	EEE
42	G Raja Sekhar Yadav	Power electronics and electrical drives	EEE
43	R. Bhargav	Instrumentation and Signal Processing	EEE
44	J.N. Rama Krishna	Power Electronics	EEE
45	V.S. Aditya	Control Systems	EEE
46	B. Santosh Kumar	Control Systems	EEE
47	R. Appala Naidu	Power Electronics and Electrical Drives	EEE
48	R. Ganesh	Power systems	EEE
49	Sk. Salima	Power systems	EEE
50	V. Hari Kiran	CAD/CAM	MECH
51	K. Naga Raju	Machine Design	MECH
52	S.Subramanyam	CAD/CAM	MECH
53	K. Siva Appa Rao	Machine Design	MECH
54	K.Krishna	Machine Design	MECH
55	S. Ravi Teja	Thermal Engg.	MECH
56	V. Venkaya Naidu	Aerospace Engg.	MECH
57	V. Suma Priya	Machine Design	MECH
58	S. Ravi teja	Thermal Engg.	MECH
59	Ch. Swathi	CSE	CSE
60	Y. Siva Prasad	CSE	CSE
61	Y. Srinivasu	CSE	CSE
62	V Revanth Kumar	CSE	CSE
63	Naidu Sekhar Y	CSE	CSE
64	A Bharath Kumar	CSE	CSE
65	S. Lokesh	CSE	CSE
66	D. Anusha	CSE	CSE
67	A. Priyanka	CSE	CSE
68	N. Sridevi	CSE	CSE
69	D. Ravi	CSE	CSE
70	N. Swaroop	CSE	CSE
71	P. Rajasekhara	CSE	CSE
72	B. Nanada Kishore	CSE	CSE
73	S. Dileep	CSE	CSE
74	S. Anusha	CSE	CSE
75	P. Naresh	CSE	CSE
76	M. Naresh	CSE	CSE
77	G Naidu Appa Rao	CSE	CSE
78	Peela Naga Lakshmi	CSE	CSE
79	K. V. Subrahmayam	CSE	CSE
80	Ch. PVNJ Mohan rao	CSE	CSE

81	V. Suneetha	CSE	CSE
82	S. Satya Pavan Kumar	CSE	CSE
83	P Sudha Rani	CSE	CSE
84	N. Ashok Kumar	CSE	CSE
85	S. Madhu	CSE	CSE
86	K. Vara Prasad	CSE	CSE
87	P. Prabhakar V Satya	CSE	CSE
88	G. Varahagiri	CSE	CSE
89	S. Manikanta Vinod	CSE	CSE
90	J. Rajesh	CSE	CSE

**3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?**

- The college organizes National Conferences, Symposiums, Workshops and Seminars as the important tools of collaboration where experts from academia and industries are invited for delivering special lectures and interact with teachers and students.
- Various short-term training programs for faculty are organized, for which experts are invited to deliver special lectures and deliberations on important issues.
- The faculty members are encouraged to collaborate with eminent Professors of reputed institutions for their research activities.

**3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

FIP and study leave facility is available in the college for faculties. However, during the current block period teachers have not availed this facility. Faculty who are pursuing research are doing it on part-time basis, since college timings is most encouraging for carrying out research activity.

The following faculty availed study leave

1. Sri. T Srinivasa Rao, Dept. of EEE, has utilized leave in process of his Ph.D. at ANDHRA University.
2. Sri. R. Prasad Rao, Dept of ECE has availed in process of his Ph.D. at GITAM University
3. Sri. B. Ramesh, Dept. of Mech for his ongoing Ph.D. at JNTUK, Kakinada.
4. Sri. V. Sai Prasanth, Dept. of MBA.

**3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)**

- Interaction seminars are organized by the departments to the pre final and final year students to motivate them to take up contemporary research topics as their academic projects
- Necessary interaction will be provided to them, that projects related exposures will be taken by the institute
- Orientation classes and conferences/workshops being organized by the department

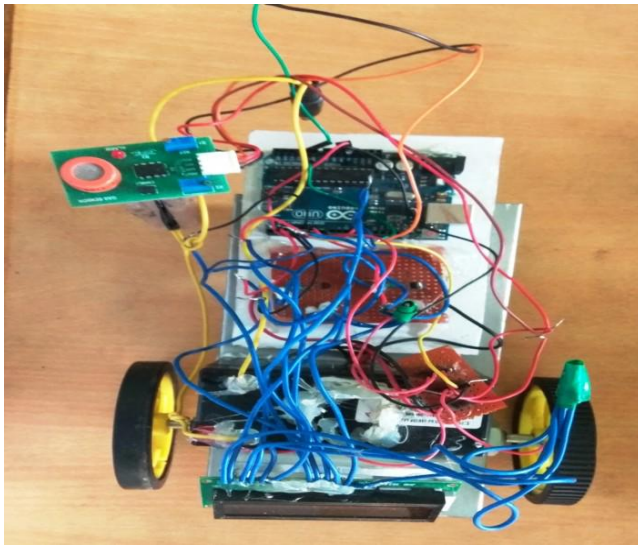
Sl .no	Project title	Specialized Area	Faculty
1	Solar street lightning using MPPT algorithm	Embedded systems	R. Prasad Rao
2	Remote controlled Notice board	Embedded systems	E. Govinda
3			



**Solar Street lightning using MPPT algorithm**



**Remote controlled Notice board**



Liquor Detector



Witricity



Single cylinder Di-Diesel engine with catalytic converter

### **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.**

The Institution receives grant from management exclusively for research, seminars and workshops. Over and above the grant expenditure is borne by the Institution from its own resources. In the recent past, total expenditure incurred from its own resources was 1.8% of the total budget.

**Allocated amount**

Sl.No	FY	Amount spent on Seminars/ Workshops/Conferences/Publication	Additional Equipment	In- House R&D
1	2015-16	20Lakhs	0.93Lakhs	1Lakhs
2	2014-15	16.2Lakhs	1.52Lakhs	1Lakhs
3	2013-14	12.65Lakhs	1.05Lakhs	1Lakhs
4	2012-13	12.8Lakhs	0.97Lakhs	1Lakhs
5	2011-12	9.08Lakhs	1.2Lakhs	1Lakhs

**Expenditure incurred in last three years:**

Sl.No	FY	Amount spent on Seminars/ Workshops/Conferences/Publication	Additional Equipment	In- House R&D
1	2015-16	12.6Lakhs	1.0Lakhs	1.0Lakhs
2	2014-15	13.8Lakhs	0.8Lakhs	1.2Lakhs
3	2013-14	11.2Lakhs	1.2Lakhs	1.Lakhs
4	2012-13	10.6Lakhs	1.3Lakhs	0.8Lakhs
5	2011-12	9.1Lakhs	1.0Lakhs	1.2Lakhs

**3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

**Yes.**

The college provides seed money to faculty, to carry out the project as part of research. Also provides sponsorship for attending national level conferences, workshops seminars and faculty development

programs. So far over the last four years the amount disbursed and the percentage of faculty availed this facility may be reasonable.

<b>Exp. Head</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-2014</b>	<b>2012-2013</b>	<b>2011-2012</b>
Higher studies fees reimbursement	Rs.100000	Rs.100000	Rs.120000	Rs.80000	Rs.50000
Incentives for publications	Rs.20000	Rs.20000	Rs.100000	Rs.15000	Rs.10000
Seminars/ paper presentation	Rs.120000	Rs.150000	Rs.120000	Rs.130000	Rs.80000

<b>AY</b>	<b>Seed money Amount</b>	<b>No of faculty</b>
2015-16	Rs.60000	04
2014-15	Rs.60000	03
2013-14	Rs.120000	06
2012-13	Rs.100000	05
2011-12	Rs.80000	04

#### **2015-16**

<b>S.No</b>	<b>Project Title</b>	<b>Amount in Rs.</b>	<b>Name of the Faculty</b>	<b>Department</b>
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1	Remote notice board with GSM	15000	P. Ashok Kumar	ECE
2	Design of wheel chair to stretcher	20000	V. Harikiran	Mech

#### 2014-15

S.No	Project Title	Amount in Rs.	Name of the Faculty	Department
1	Automatic solar panel tracking system by using micro controller	20000	Sri. S.Subramanyam	Mech
2	Prioritized maximum demand controller	20000	Sri. P. Anil kumar	EEE
3	Smart Helmet by ignition system using wireless	20000	Sri. E.Govinda	ECE

#### 2013-14

S.No	Project Title	Amount	Innovation	Name of the Faculty
1	Wireless electronic notice board message updating using GSM	20000	GSM	E.Govinda
2	Water lift and fertilizer pumping using cycling	20000	Machine design	P. Krishna Kiran
3	Fabrication of compressed air vehicle	20000	Automobile engineering	V.Harikiran
4	Auto main failure system	20000	Power systems	P. Anil kumar
5	Finger print ignition	20000	Implementation	B. N. Srinivasarao
6	Accident identification using GSM and GPRS	20000	GSM	M. Kedareeswara rao

#### 2012-13

S.No	Project Title	Amount	Innovation	Name of the
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				<b>Faculty</b>
1	Dam-door control system using GSM technology	20000	GSM	E.Govinda
2	Fabrication of Hover craft	20000	Implementation	B.Ramesh
3	Power Control Using Mobile Phone For Agriculture	20000	Power Systems & relays	Ch Ravi Kumar
4	Security and safety to plastic currency users	20000	Implementation	R. Prasad rao
5	Live human detection with wireless robot	20000	Implementation	B.N.Srinivasa rao

### 2011-12

<b>S.No</b>	<b>Project Title</b>	<b>Amount</b>	<b>Innovation</b>	<b>Name of the Faculty</b>
1	Remote notice board using GSM led panel designing	20000	GSM	E.Govinda
2	Switching of Three-phase motor by using GSM and relay based technology	20000	Protection - Rely Logic – Machines	Ch. Venkat rao
3	Zig bee based wireless weather station	20000	Wireless NWT	B.N.Srinivasarao
4	Arm processor based biomedical monitoring system	20000	MPMC	R.Prasad rao

### 3.2.3 What are the financial provisions made available to support student research projects by students?

Labs are established in all the departments .The labs are equipped with requisite facilities for students to take up their project work in the Institution itself.

### 2015-16



<b>Department Name</b>	<b>No of Projects</b>	<b>Amount in Rs.</b>
ECE	2	20000
MECH	1	10000
EEE	1	10000

#### **2014-15**

<b>Department Name</b>	<b>No of Projects</b>	<b>Amount in Rs.</b>
ECE	01	15000
MECH	01	15000
EEE	01	10000

#### **2013-14**

<b>Department Name</b>	<b>No of Projects</b>	<b>Amount in Rs.</b>
ECE	02	40000
MECH	01	20000
EEE	01	15000

#### **2012-13**

<b>Department Name</b>	<b>No of Projects</b>	<b>Amount in Rs.</b>
ECE	02	30000
EEE	01	20000

#### **2011-12**

<b>Department</b>	<b>No of</b>	<b>Amount in</b>
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Name	Projects	Rs.
ECE	02	20000

### 2015-2016

S.No	Project Title	Amount in Rs.	Students roll no	Department
1	Solar panel	10000	12811A0435,418 ,447,441	ECE
2	Remote notice board with GSM	10000	12811A0416,444 432,438,	ECE
3	Design and fabrication of agricultural pump set without fuel	5000	12811A0304,308 ,317,335	Mech
4	Design of wheel chair to stretcher	5000	12811A0381,395 ,388,13815A033 5	Mech
5	Wireless power transfer	5000	12811A0237,138 15A0201,207,21 3	EEE
6	Automatic irrigation system on sensing soil moisture content	5000	13815A0205,209 212,12811A0216 ,220	EEE
7	Secure website launcher		13815A0503,1281 1A0558,555,539	CSE

### 2014-2015

S.No	Project Title	Amount in Rs.	Students roll no	Department
1	Auto intensity control of led street lighting systems	10000	11811A0201,207 ,208,216,229	EEE
2	Android control robotic boat to travel in water with wireless video and voice	15000	11811A0429,436 ,433,le-409	ECE
3	Fabrication of thermo electric refrigerator	15000	11811A0310,322	MECH

			,323,350,351	
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### 2013-2014

S.No	Project Title	Amount in Rs.	Students roll no	Department
1	Talking energy meter	15000	10811A0206, 224,236,250	EEE
2	Fabrication of abrasive Jet machine	20000	348,328,339, 351	Mech
3	A home network system with mobile communication using Android	20000	10- 457,401,439, 416	ECE
4	Fire detection and identification in train	20000	10- 425,407,458, 434	ECE

### 2012-2013

S.No	Project Title	Amount in Rs.	Students roll no	Department
1	Power theft and misuse blocking systems	20000	09811A0206,207 ,210,223,224	EEE
2	Mobile detecting robot	20000	09 - 4B3,497,410.465	ECE
3	GSM controlled robot for human detection and surveillances	10000	09- 409,402,407,421	ECE

### 2011-2012

S.No	Project Title	Amount in Rs.	Department
1	Intelligent train system with cracking detection system	10000	ECE

	location monitoring using GSM		
2	Power line communication for advertising led panel	10000	ECE

**3.2.4 How does the various departments/units/staff of the institute interact in undertaking interdisciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

The institute has been organizing inter disciplinary seminars and workshops on latest technologies. Institute invites experts from the industry (NSTL and DRDL) to strengthen and provide necessary guidance and encourage research activity in inter-discipline area. Institute encouraging students to attend works and to do projects in different field of engineering. Few projects and students activities listed below.

**2015-16**

S.No	Name of the Project	Department involved
1	Solar panel	ECE
2	Design and fabrication of agricultural pump set without fuel	Mech

**2014-15**

S.No	Name of the Project	Department involved
1	Matlab based robotic arm control for medical treatment	ECE and MECH

**2013-14**

S.No	Name of the Project	Department involved
1	Foot step to electricity	ECE and EEE
2	Power Control Using Mobile Phone For Agriculture	EEE





**2012-13**

S.No	Name of the Project	Department involved
1	Dam – Door Control system using GSM Technology	ECE

2	Foot step to electricity	EEE and ECE
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2011-12

S.No	Name of the Project	Department involved
1	E-zone Can based accident control system using ARM processor GSM cell phone jammer in college premises	CSE and ECE
2	Electronic Village Remote notice board using GSM LED panel designing	ECE and EEE

	
DAM door Controlling System using GSM (09 batch )	An intelligent ambulance car which can control traffic lights (08 batch)
	
Remote Notice Board Using GSM (08 batch)	Intelligent train with track crack detection system using GSM Modem (08 batch)

### 3.2.5 How does the institution ensure optimal use of various equipment and research facilities

**of the institution by its staff and students?**

- To Encourage/ motivate the staff and students to take a forward step to pursue research in their relevant field/interests. The institute is always eager to purchase new edition of books every year.
- The Institute has a well stocked library which includes latest syllabi as well as reference books of all relevant subjects and disciplines
- Basic research facilities are available in all departments.
- Internet connectivity has also been provided in all departments to help them review their academic as well as research works.
- Institute also ensures that the deserving students should be facilitated to use the equipments, books, Journal, and lab facilities of the department beyond the Institution timing and also during winter/summer vacations.

Sl.no.	Name of the Lab	Name of the Equipment
1	HVE lab	Performance and parameter estimation of the transmission line
2	Control systems lab	ABB PLC Module
3	Power semi conductor drives	3phase full wave controlled rectifier
4	Communication Lab	Spectrum analyzer
5	FM & HM Lab	Siemens Pneumatic PLC
6	Thermal Engineering	Fuels Lab

**3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If ‘yes’ give details.**

NO

**3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.**

Interactive sessions are arranged by the college for senior faculty to provide awareness regarding funding agencies and sponsored researchers.

<b>S.No</b>	<b>Details Of The Speaker With Designation</b>	<b>Topic Covered</b>	<b>Year</b>
1	Sri V.Madusudhan,Chairman and managing,Visakhapatnam steel plant	Research and development	2015-16
2	Sri. P.V.S.Ganesh kumar, NSTL,Visakhapatnam	Research and development	2015-16
3	Sri. M.Venkataratnam,Scientific Officer-H,BARC,Visakhapatnam	Emergency cut of in industry as in IEEE	2015-16
4	Sri. K.Nagaraju,Vice President,ANRAK	Material and management	2015-16
5	Sri. M.Bhagavan Prasad,SDE-EETP,BSNL,Visakhapatnam	Telecom Communication Networks broad band	2015-16
6	Dr.M.Lakshmi narayana DLRL,Hyderabad	Antennas	2014-15
7	Dr.G.Ravi kumar Scientist G,Assoc.Director NSTL,Visakhapatnam	Acuators ,Advanced Controls Systems	2014-15
8	Sri. S. Surya Shankar DGM(telecom),BSNL	Telecom Communication Networks	2014-15
9	Sri. Y.S. Chowdary Hon'ble Minister of state for Ministry of science & Technology & Earth Sciences	Science And Engineering Research Programs And Grants	2014-15
10	Sri. N.Prasad CGM APEPDCL	Quality assessments	2013-14
11	Sri.P.Trimurthulu,Sc.F, NSTL,Visakhapatnam	Advance control systems	2013-14
12	Sri. Viswanadham Head, Mahindra Satyam	A seminar on IT industry and its requirements.	2013-14

13	Sri Satya Topali, Mahindra Satyam, Hyderabad	An interaction session on career in IT and how to achieve it.	2013-14
14	Dr R V S Subhramanyam, NSTL, Visakhapatnam	Role of young engineers in research and development.	2013-14
15	Sri. T.S.Murali General manager (Operations and Corp. Planning) B.H.P.V. Visakhapatnam.	Product designs and innovations	2012-13
16	Sri. L.S.Rao VP(operation) Anarak , VSP	Challenges in product based organizations.	2012-13
17	Sri. T.Hanuman Choudary. Member State Government Advisory Committee	Human Resource management ,and Entrepreneurship	2012-13

### 3.3 Research Facilities

#### 3.3.1 What are the research facilities available to the students and research scholars within the campus?

- Major research facilities are being developed in the campus are available in each department apart from central library facility of the institute being utilized by faculty members, research Scholars and students.
- The institute has fully furnished computer laboratories located in different departments apart from central computing lab of the institute. There are approx 530 Terminals (Dual Core, Pentium) with UPS back up service. UNIX / LINUX operating systems and branded servers.
- High speed internet connectivity up to 40 Mbps through BSNL Leased Line is available and it has been provided to all departments to enable the faculty and students to pursue their academic as well as research activities.



- All the departments are provided with a project lab with necessary equipment/ computers/ software/ tools to take up projects at under graduate and post graduate level. Measures are taken to strengthen these project labs to take up research activities.

### **CSE Department.**

- About 60 advanced computer systems are available with high end configuration to take up projects.
- A set of dedicated servers deployed in a fully networked configuration based on the latest concept of server computing.

### **ECE department.**

- Opto-electronics Lab and Advanced Communication Engineering lab were developed for research.
- The ECE Department is equipped with Research and Development Lab exclusively meant for students and researchers to carry out their research. It is equipped with latest tools like Tanner, Xilinx, MatLab, MPLAB, Kiel - C and Network Analyzer which help the researchers to do research in cutting-edge technologies.

### **Electrical & Electronics Department.**

- All the papers of the IEEE online available.
- A special lab is having latest software as well kits for power electronics for higher education and research work only.
- CAD lab having latest software's for research work including MATLAB 10, PSCAD-4, and PSPICE.
- Each group of students can avail Internet facilities for project and research work.
- Sufficient numbers of computers with Internet connection are available for student and faculty researchers.

### **Mechanical Engineering Department.**

- Engineering Workshop
- Production Technology
- Mechanics of solids and Metallurgy Lab
- Fluid Mechanics and hydraulics Lab
- Machine Tools Lab
- Electrology & instrumentation Lab
- Thermal Engineering Lab
- Heat Transfer Lab
- Simulation Lab

### **3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?**

Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers are:

- Encouraging faculty and students to attend research programmes, workshop, seminars, Conferences conducted in the Institute and at other organizations. Institute reimburses the registration fee, conveyance and provides on-duty leave for the participants.

Encouraging faculty members to organize research workshop, seminars, Conferences, with funding internally.

- The Research committee keeps in touch with recent trends in the research oriented programmes.
- The library of the institute is enriched with wide range of books and various national and international journals. Online IEEE journals are also accessible to the researchers.
- Successful completion of research programmes lead to appreciation and academic carrier building.
- High bandwidth Internet facility along with Wi-Fi connectivity is provided in the campus to the faculty and students for carrying research works.
- The College invites industry experts frequently and arranges interaction meets for the students to provide the latest information about the industry requirements. It also helps them to get an understanding of contemporary issues and latest happenings all over the world. The following are the industry interaction sessions arranged by the college.



Prof. Madhumutyam ,IIT, Chennai



Prof. Jayantha Pal IIT Bhubaneswar



Prof. R.V.Raj Kumar , Director  
IIT Bhubaneswar



**Sri V. Madusudhan, Chairman  
Managing Director  
Visakhapatnam steel plant**



**M. Venkataratnam, Scientific  
Officer-H BARC**



**Sri. P.V.S. Ganesh kumar, SC. G  
NSTL, Visakhapatnam**



**Prof. B. Prabhakara Rao Rector, JNTUK**



**Sri Nagaraju, General Manager, BSNL and Prof. Padma Raju, Professor, Department of ECE, JNTU Kakinada releasing souvenir on the eve of Adwithiva**



**Prof. B M Mohan, Professor, Department of EE, IIT, Kharagpur delivering a lecture on the eve of Sanketik Samahar**



**Mr Ray Perera , CEO, Kenexa technologies, Visakhapatnam addressing our students**



**Sri. L S Rao, Vice-President, ANRAK Addressing the Students on the eve of Yantrik**



**M. S. Subramanyam, Head, TCS, Hyderabad taking up a session to our students**



**Mr. Ravi Eswarapu, Head, Mahindra Satyam Visakhapatnam addressing our students**

**CSE:**

<b>S. No</b>	<b>Year</b>	<b>Name of the Industry</b>	<b>Name of the Entrepreneur</b>	<b>Topics covered</b>
1	2010-11	Visakhapatnam Steel Plant.	Sri. T Rajeswara Rao HOD, IT Department, Visakhapatnam Steel Plant	He addressed about career development in public sector units.
2	2011-12	Mahendra Satyam, VITA.	Sri. Ravi Easwarapu, Head, Mahendra Satyam, VITA.	Delivered a speech on skill assessment between industry and academia.
3	2011-12	Symbiosis	Mr. Naresh	Orientation programme on opportunities in IT and related disciplines
4	2012-13	Mahendra Satyam Visakhapatnam	Sri Viswanadham Head, Mahendra Satyam	A seminar on IT industry and its requirements.
5	2012-13	Mahendra Satyam Hyderabad	Sri Satya Topali	An interaction session on career in IT and how to achieve it.

6	2012-13	NSTL, Visakhapatnam	Dr R V S Subhramanyam	Role of young engineers in research and development.
7	2015-16	NSTL,Visakhapatnam	Sri. P.V.S Ganesh Kumar,Assoc. Director,Visakhapatnam	Role of young engineers in research and development.

**Mech:**

S.No	Name of the Invitee	Topic Discussed	Month/Year
1	V.Madhusudan,Chairman and Managing director, Visakhapatnam	Product designs and innovations	March/2016
2	K.Nagaraju,Vice president,ANRAK	Material and management	March/2016
3	M.Bangarubabu,	NIT,Warangal	March/2016
4	T.S.Murali General manager (Operations and Corp. Planning) B.H.P.V. Visakhapatnam.	Product designs and innovations	March /2012
5	T.Hanuman Choudary. Member State Government Advisory Committee	Human Resource management ,and Entrepreneurship	March/2011

**EEE and ECE:**

	Details Of The Speaker With Designation	Topic Covered	Year
1	M.Bhagavan Prasad	Tele communication	2015-2016

	SDE-EEPT,BSNL,Visakhapatnam	broad band	
2	M.Venkataratnam,Scientific Officer-H,BARC,Visakhapatnam	Advanced overhead transmission systems	2015-2016
3	Dr.M.Lakshmi narayana DLRL,Hyderabad	Antennas	2014-15
4	Dr.G.Ravi kumar Scientist G, Assoc. Director NSTL, Visakhapatnam	Actuators Advanced Controls Systems	2014-15
5	Sri S Surya Shankar DGM(telecom),BSNL	Telecom Communication Networks	2014-15
6	Sri. Y.S. Chowdary Hon'ble Minister of state for Ministry of science & Technology & Earth Sciences	Scientific And Engineering Research Programs And Grants	2014-15
7	Sri. N.Prasad CGM APEPDCL	Quality assessments	2013-14
8	Sri. P.Trimurthulu, Sc.F , NSTL,Visakhapatnam	Advance control systems	2013-14
9	Sri Viswanadham Head, Mahendra Satyam	A seminar on IT industry and its requirements.	2013-14
10	Sri Satya Topali, Mahindra Satyam,Hyderabad	An interaction session on career in IT and how to achieve it.	2013-14
11	Dr R V S Subhramanyam, NSTL, Visakhapatnam	Role of young engineers in research and development.	2013-14
12	Sri. T.S.Murali General manager (Operations and Corp. Planning) B.H.P.V. Visakhapatnam.	Product designs and innovations	2012-13



13	Sri. L.S.Rao VP(operation) Anrak , VSP	Challenges in product based organizations.	2012-13
14	Sri. T.Hanuman Choudary. Member State Government Advisory Committee	Human Resource management ,and Entrepreneurship	2012-13

**Events conducted by the College:**

<b>S.No</b>	<b>Name of the Event</b>	<b>Date/Month/Y ear</b>
1	PRERANA-2k16	12 <sup>th</sup> & 13 <sup>th</sup> Mar 2016
2	Avishkar-2k15	13 <sup>th</sup> & 14 <sup>th</sup> Feb,2015
3	Induction meet Seminar on future challenges in IT & Skill Development	6 <sup>th</sup> Oct, 2015
4	Robotics 2 days Workshop	17 <sup>th</sup> & 18 <sup>th</sup> Oct, 2015
5	Tech Reperio	4 <sup>th</sup> & 5 <sup>th</sup> April,2014
6	OMINIS 2k13	9 <sup>th</sup> March 2013
7	Tech Envisage-2k13	9 <sup>th</sup> Feb 2013
8	Yantrik 2k12	19 <sup>th</sup> Mar,2012
9	E-Qube 2k12	7 <sup>th</sup> Feb,2012
10	Adwitiya 2k 11	4 <sup>th</sup> Mar,2011
11	Susantivo 2k11	25 <sup>th</sup> Mar,2011
12	Zakti 2k11	12 <sup>th</sup> Mar,2011

**3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments/ facilities created during the last four years.**

**No**

**3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?**

- Various departments deputing to relevant organizations for the purpose of providing training facilities to their students for taking up research oriented project work. Students also avail facilities through their department heads and aware of emerging trends in the respective fields.
- UG and PG students are encouraged to do their final year project work at reputed organizations Visakhapatnam Steel plant, NTPC, BSNL, BHPV, APTRANCO, and APGenco to get real-time experience

**List of Companies where students done their research projects**

**Mech:**

**2013-14**

<b>S.No</b>	<b>Title</b>	<b>Name of the company</b>	<b>No of students</b>
1	Design, Analysis& Modifications of conveyor gear box i/o coupling gear hub	Vizag Steel plant	4
2	Failure analysis & Rectification of blast furnish ceiling valve	Vizag Steel plant	4
3	Development of indigenious fiux in summerged welding for carbon steel	BHEL	4
4	Analysis and trouble shooting of hydraulic machines in LMMM	Vizag Steel plant	4

**EEE**

**2011-12**

<b>S.No</b>	<b>Title</b>	<b>Name of the company</b>	<b>No of students</b>
1	Study of grid sub-station	APTRANSCO, Pendurthi	4
2	Study of power transformer and it's protection	APTRANSCO, parawada	4
3	Automation of continuous casting machine-2	VSP, Visakhapatnam	3
4	AC electric Locomotives	Khargpur workshop, South eastern railway	3
5	Overview of power generation & distribution system at HPCL	HPCL, Visakhapatnam	4
6	ISBM PLC changing	VSP, Visakhapatnam	4
7	Circuit breakers & Relays at HPCL	HPCL, Visakhapatnam	2
8	Energy conservation in electro static precipitator	VSP, Visakhapatnam	4
9	Study of circuit breakers in switching sub station	APTRANSCO, Gajuwaka	5
10	power generator distribution & GIS	HPCL, Visakhapatnam	3
11	Study of acquisition system	VSP, Visakhapatnam	4
12	Study of relays, circuit breakers and traction motors used in electric locomotives	Electric loco shed ,Visakhapatnam	4

13	Relays, Types of relays, for different applications and GIS sub stations	HPCL, Visakhapatnam	4
14	Replacement of static excitation system in pLakhse of rotary excitation system in GET's	VSP, Visakhapatnam	5
15	Study of live line technique	APTRANSCO, Gajuwaka	4
16	PLC of induction motor driver 400 bar air compressor	HSL, Visakhapatnam	3
17	Generator protection	HPCL , Visakhapatnam	4
18	Power distribution in LBSS-1	VSP, Visakhapatnam	3
19	Overview of NTPC	NTPC Ltd, Visakhapatnam	4

**3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?**

Faculty who are doing part time Ph.D. are availing the following facilities provided in the library. College is having computerized library with catalogue and e-journal facilities.

- On special request from the researchers, books required for research is made available and the library facilities can be availed for extended hours.
- The college has established a well stocked library with text books, Reference books, National and international journals, Magazines, materials beyond the syllabus like GATE, GRE, TOEFL and other required books to learn good communication skills.

*Dept of mechanical*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
<i>1</i>	<i>Claro: Robotics</i>	<i>Print</i>	

2	<i>Claro:Thermodynamics</i>	<i>Print</i>	
3	<i>Claro: Material Science</i>	<i>Print</i>	
4	<i>Claro: Fuels</i>	<i>Print</i>	
5	<i>International Journal of Advanced Mechatronics and Robotics</i>	<i>print</i>	
6	<i>Journal of Advancement in Machines</i>	<i>Online+Print</i>	
7	<i>Journal of Automation and Automobile Engineering</i>	<i>Online+Print</i>	
8	<i>Journal of Recent Activities in Production</i>	<i>Online+Print</i>	
9	<i>Journal of Mechanical Robotics</i>	<i>Online+Print</i>	
10	<i>Journal on Mechanical Engineering</i>	<i>Print</i>	
11	<i>Journal on Material Science</i>	<i>Print</i>	
12	<i>Bulletin of Materials Science</i>	<i>Print</i>	

*Dept of Computers*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
1	<i>Journal of Computer Science Engineering and Software Testing</i>	<i>Online+Print</i>	
2	<i>Journal of Image Processing and Artificial Intelligence</i>	<i>Online+Print</i>	
3	<i>Journal of Android and IOS Applications and Testing</i>	<i>Online+Print</i>	
4	<i>Journal of VLSI Design and Signal Processing</i>	<i>Online+Print</i>	
5	<i>The IUP Journal of Computer Sciences</i>	<i>Print</i>	
6	<i>Digit With CD</i>	<i>Print</i>	
7	<i>International Journal of Data Mining &amp; Emerging Technologies</i>	<i>Print</i>	
8	<i>Journal on Cloud Computing</i>	<i>Print</i>	
9	<i>DESIDOC Journal of Library &amp; Information Technology</i>	<i>Print</i>	

10	<i>ICTACT Journal on Soft Computing</i>	<i>Print</i>	
11	<i>Journal on Software Engineering</i>	<i>Print</i>	
12	<i>Journal on Computer Science</i>	<i>Print</i>	
13	<i>Journal on Cloud Computing</i>	<i>Print</i>	
14	<i>Journal on Pattern Recognition</i>	<i>Print</i>	

*Dept of Civil*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
1	<i>Indian Concrete Journal</i>	<i>Print</i>	
2	<i>International journal of civil engineering and Construction Technology</i>	<i>Print</i>	

*Dept of Electronics*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
1	<i>Journal of Analog and Digital Devices</i>	<i>Online+Print</i>	
2	<i>Journal of Electronics and Communication Systems</i>	<i>Online+Print</i>	
3	<i>Journal of Power Electronics and Devices</i>	<i>Online+Print</i>	
4	<i>Journal of Control System and Control Instrumentation</i>	<i>Online+Print</i>	
5	<i>IEEMA Journal</i>	<i>Print</i>	
6	<i>International Journal of Web Applications</i>	<i>Print</i>	
7	<i>The IUP Journal of Electrical &amp; Electronic Engineering</i>	<i>Print</i>	
8	<i>The IUP Journal of Telecommunications</i>	<i>Print</i>	
9	<i>ICTACT Journal on Micro Electronics</i>	<i>Print</i>	
10	<i>ICTACT Journal on image and Video Processing</i>	<i>Print</i>	
11	<i>ICTACT Journal on Communication Technology</i>	<i>Print</i>	

12	<i>Journal on Circuits and Systems</i>	<i>Print</i>	
13	<i>Journal on Electronics Engineering</i>	<i>Print</i>	
14	<i>Journal on Wireless Communication Works</i>	<i>Print</i>	
15	<i>Journal on Digital Signal Processing</i>	<i>Print</i>	

*Dept of Electrical*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
1	<i>Journal of Electrical and Power System Engineering</i>	<i>Online+Print</i>	
2	<i>Journal of Advances in Electrical Devices</i>	<i>Online+Print</i>	
3	<i>Journal of Instrumentation and Innovation Sciences</i>	<i>Online+Print</i>	
4	<i>Journal of Controller and Converters</i>	<i>Online+Print</i>	
5	<i>Inventi Impact: Energy and Power</i>	<i>Print</i>	
6	<i>Inventi Impact: Power Electronics</i>	<i>Print</i>	
7	<i>Claro: Solar Energy</i>	<i>Print</i>	
8	<i>Claro: Electrical Engineering</i>	<i>print</i>	
9	<i>Journal on Electrical Engineering</i>	<i>Print</i>	
10	<i>Journal on Image Processing</i>	<i>Print</i>	

*Dept of Management*

<i>S.No</i>	<i>Title</i>	<i>Accessing Mode</i>	
1	<i>IIMB Management Review</i>	<i>Print</i>	
2	<i>Vikalpa: The Journal of Decision Makers</i>	<i>Print</i>	
3	<i>The Indian Journal of Industrial Relations</i>	<i>Print</i>	
4	<i>Harvard Business Review</i>	<i>Print</i>	

5	<i>Indian Journal of Training &amp; Development</i>	<i>Print</i>	
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*Miscellaneous Journals*

<i>S.no</i>	<i>Title</i>	<i>Accessing mode</i>	
1	<i>Journal on English Language Teaching</i>	<i>Print</i>	
2	<i>The Journal of CPRI</i>	<i>Print</i>	

*Magazines 2016-2017*

<i>Name Of the Magazine</i>	<i>No of Issues</i>
<i>Electrical India</i>	12
<i>Auto Car India</i>	12
<i>Banking Services Chronicle</i>	12
<i>Business World</i>	26
<i>Business Today</i>	26
<i>Competition Success Review</i>	12
<i>General Knowledge Today</i>	12
<i>India Today – English</i>	52
<i>Indian Management</i>	12
<i>Inside-Outside</i>	12
<i>Kurukshetra</i>	12
<i>Mahindra's –English</i>	12
<i>Mathematics Today</i>	12
<i>Motor-India</i>	12
<i>Pratyogita kiran –English</i>	12
<i>Reader's Digest</i>	12
<i>Voice and Data</i>	12
<i>Yojana</i>	12
<i>Open Source for you</i>	12
<b><i>Total</i></b>	<b><i>19</i></b>

**3.3.6 What are the collaborative researches facilities developed / created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc.**



No

### 3.4 Research Publications and Awards

#### 3.4.1 Highlight the major research achievements of the staff and students in terms of

- \* Patents obtained and filed (process and product)

No

- \* Original research contributing to product improvement

- \* Research studies or surveys benefiting the community or improving the services.

- \* Research inputs contributing to new initiatives and social development

No

#### 3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No

#### 3.4.3 Give details of publications by the faculty and students:

**CSE 2015-2016**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Anusha paidi/P.Rajsekhar	An experimental anchor primitive based on artificial intelligence problems built	International journal of Scientific Engineering and	Vol-4,Issue-42,ISSN 2319-8885pages

		on top of captcha technology	Technology(IJSETR)	9135-9138
2	Anusha paidi/P.Rajsekhar	An efficient implementation of clustering based feature subset selection algorithm for high dimensional data	International Journal of Computer Science Information and Engineering Technology (IJCSIET)	
3	Alekhyasuma/P.Rajsekhar	Hybrid supervised and unsupervised learning approach for node classification	International Journal on Emerging Trends in Technology (IJETT).	Volume-32,Number 4 ISSN:2231-5381, Feb 2016
4	Yerra sivaji/P.V.S.Prabhakar /Dr.C.P.V.N.J Mohanrao	A novel approach to data storage in cloud computing security schemes to information confidentiality	International journal of Scientific Engineering and Technology(IJSETR)	Volume-4,Issue-46,ISSN:2319-8885,Nov-2015
5	Mutyala Narendra, Boddu Nanda Kishore	An efficient frequent pattern generation with utility and flag matrix	International Journal of Engineering Trends and Technology (IJETT),	Volume 31(2),87-90, ISSN:2231-5381,Jan-2016
6	Mutyala Narendra, Boddu Nanda Kishore	An integrated approach on personalized travel package recommendation based on trust model	International journal of Scientific Engineering and Technology(IJSETR)	
7	Yeluri Venky, Suneetha Vesalapu	An Empirical model for out sourced databases	International Journal of Engineering Trends and Technology (IJETT),	Volume 32(4), 175-179, ISSN: 2231-5381 February 2016.
8	Anusha/N.V.Ashok Kumar	Improving security and efficiency in attribute based	International Journal of Research in	Volume-5/4- 1502,July-2015

		sharing	Computer Science & Engineering(IJRCSE)	
9	T.Hemanth kumar/N.V.Ashok kumar	A Secure frame work for datamining in distributed architecture	International Journal of Engineering Trends and Technology (IJETT),	Volume 28 Number 5,ISSN:2231-5381,Oct-2015
10	Kancherla vasudev/N.V.Ashok kumar	A Novel method for computing top k-routing plans for a given keyword query	International journal of Scientific Engineering and Technology(IJSETR)	Volume-4 Issue-43,ISSN:2319-8885,Oct-2015

#### CSE: 2014-15

S.No	Name of faculty/Student	Title of paper published	Journal/Conference	Volume/Year
1	P.Srinivasarao/P.Rajas ekhar	A simple mode of rekeying anatomy using map theory	International Journal of Engineering Trends and Technology (IJETT)	Vol-22,Num-1, Apr 2015
2	Y.V.Sivaprasad/P.Raj asekar	An empirical model of secure clustering technique over decentralized architecture	International Journal of Engineering Trends and Technology (IJETT)	Vol-16,Num-1,Oct-2014
3	Nimmagadda Naresh/P.Rajasekhar	A secure clustering mechanism in out sourced databases	International Journal of Engineering Trends and Technology (IJETT)	Vol-19,Num-3, May-2015
4	Javva vamsikrishna/P.Prabha kar	An efficient string transformation for user input query	International Journal of Engineering Trends and	Vol-19,Num-1ISSN:2231-5381,Jun-2015

			Technology (IJETT)	
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**CSE: 2013-2014**

<b>S.No</b>	<b>Name of faculty/Student</b>	<b>Title of paper published</b>	<b>Journal/Conference</b>	<b>Volume/Year</b>
1	N.V.ashok/ Dr.C.Mohanrao/S.N.V .Brahmaji	a novel and efficient implementation of user search histories	International Journal of advanced and innovative research	Volume 2 ,Issue 11,2013
2	M.satyanarayana/Tallu ri Nalini	a proximity phrase association pattern mining of unstructured text	International Journal of Engineering Trends and Technology (IJETT)	Volume 4,Issue 5, May 2013
3	S.Dileep/ M.Satyanarayana	a performance comparison of high utility based mining algorithms	International Journal of Engineering Trends and Technology (IJETT)	Volume 4,Issue 5, May 2013
4	M.Satyanarayana/Siva sankar vakkalagadda	a cryptographic privacy preserving approach over classification	International Journal of advanced and innovative research	Volume 4, Issue 7 July 2013
5	Prof. C.P.V.N.J Mohan Rao/V.Kumar	an empirical model of pattern search algorithm	International Journal of advanced and innovative research	Volume 2 , Issue 11,2013
6	V.kumar/NagaLakshmi	a novel suffix based pattern mining on sequential	International Journal of advanced and	Volume 2 , Issue 11,2013

	pramoda/Prof.C.Mohanrao	datasets	innovative research	
7	K.S.Lakshmi/V.Kumar/Prof.C.Mohanrao	a lexical pattern based method for searching of personal name	International Journal of advanced and innovative research	Vol 2, Issue 11, 2013
8	Prof.C.Mohan Rao/V.Kumar/Vasudevareddy	Comparative Analysis of Effective Pattern Search Implementation	International Journal of advanced and innovative research	Vol 2, Issue 11, 2013

### CSE 2012-2013

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	V.Kumar	Intrusion Tolerant Architecture Using Proxy Networks	International Conference On Nano Sciences And Engineering	2012
2	S.S.Pavankumar/ Sai Charan Dhatrika/ Deepika Puvvula	Wave Atoms Decomposition Based Eye Iris Image Compression	International Journal of Computer Science And Network Security	Vol. 2 (3) , 2011, ISSN:0975-9646

### CSE 2011-2012

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
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1	V.Kumar/YManasa/P.Satish Babu	Framework For Suggesting Popular Items To Users By Analyzing Randomized Algorithms	International Journal of Computer Science and Engineering	Vol-2(5),Oct 2011, ISSN:2229-6093
2	Dr.C.P.V.N.J.Moharanao/S.S.Pavankumar/Nandagiri R.G.K prasad	Modeling And Re-Employment Of Differential Unit Test Cases From System Test Cases	International Journal of Computer Science and Information Technologies,	Vol. 2(3), 2011, 1743-1746, ISSN: 0975-9646.
3	B.Venkateswarlu/Pancha Mukesh	Assessing The Quality Of A Software Service At The Time Of Project Development By Identifying Its Reputation	IJCEM International Journal of Computational Engineering & Management	Vol. 14, October 2011 ISSN(online: 2230-7893
4	V.Jayavani/M.Venkata kishore	A Novel Application For Transmission Of Orthogonal Embedded Images By Using Morphological Transform Domain & Cryptographic Methods	International Journal on Computer Science and Engineering (IJCSE)	Vol. 3 No. 5- May 2011, ISSN: 0975-3397.
5	Dr. C.P.V.N.J Mohan Rao/S.S.Pavan Kumar	Fuzzy Sliq Decision Tree For Quantitative Datasets	Global Journal Computer Science And Technology	Volume 11,Issue 19.Nov 2011

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Pandipati prasant kumar/E.Govinda	Speed and area optimized realization of 5 port router using verilog HDL	International Journal of VLSI Design and Communication Systems (IJVDCS)	Vol-3,Issue 08,Pages 1199-1202,Oct-2015
2	Budumuru srinu & C.Darmaraj/R.Pras adrao	Design and analysis of multisusstrate microstrip patch antennae	International Conference SPRINGER	Dec-2015
3	Ponna Prabhavati/P.Ashok kumar	Realization of multi operand address based 64 bit modified WalLakhse MAC	International journal of VLSI system Design and communication Systems	Vol-3,Issue-8,ISSN:2322-0929,Pages 1213-1216,Oct 2015
4	G.Sowjanya/M.Ke dareswarao	Implementation of speed optimized CSLA architecture using D latch approach	International Journal of VLSI Design and Communication Systems (IJVDCS)	Vol-3,Issue-8,ISSN:2322-0929,Pages 1169-1172,Oct 2015
5	Chowta palli prathyusha/T.P Naidu	Evaluation of sparse tree RSFQ adder for high speed applications	International Journal of VLSI Design and Communication Systems (IJVDCS)	Vol-3,Issue-8, ISSN:2322-0929,pages 1203-1207,Oct-2015
6	Indrani Pasupuleti/D.Rahul varma	Implementation of power optimized PRPG with low transition test compression technique	International Journal of VLSI Design and Communication Systems (IJVDCS)	Vol-3,Issue-8, ISSN:2322-0929,pages 1217-1223,Oct-2015
7	Bandi Renuka/R.Aneel Kumar	Design of fault coverage circuit with efficient hardware for low power	International Journal of VLSI Design and Communication	Vol-3,Issue-8, ISSN:2322-0929,pages

		testing applications	Systems (IJVDCS)	1269-1272,Oct-2015
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**ECE: 2014-2015**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	B.N.Srinivasarao	Implementation of ripple carry and carry skip adders with speed and area efficient	IJARCCCE	Vol-3,issue-10,oct-2014
2	B.N.Srinivasarao	Speed optimized 2D DCT implementation for high compression rate applications	IJAIR	Vol-3,issue-9,2014
3	T.Pattala naidu	Design and simulation of NOC routed using VERILOG	International journal of scientific research in computer science application and management studies	Vol-4,issue-1.,Jan-2015
4	M.Kedareswarao	Low power implementing using clocked power gating		Vol-3,issue-1,pages 0108-0112,ISSN:L2322-0929,Jan-2015
5	M.Kedareswarao	Design of self checking carry select adder of higher order bits		ISSN:2322-0929,Vol-3,pages 1116-1172issue-8,Oct-2015

**ECE: 2013-2014**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Sistla V Sudheer	Background Subtraction with	International Journal	Volume 4



	Kumar / B.N. Srinivasa Rao / E. Govind	Feature Extraction Based on FPGA	of Engineering Trends and Technology (IJETT)	Issue 9- Sep,2013,ISSN : 2231-5381
2	Mr. R. Prasad Rao / B.N.Srinivasarao/ Karri Megha Shyam	High Speed Architecture Design Of Viterbi Decoder Using Verilog HDL.	International Journal of Engineering Trends and Technology (IJETT)	Volume 4 Issue 10 - Oct ,2013 ISSN: 2231- 5381
3	Sri M Kedareswara Rao	Message Encoding in Images Using Lifting Schemes	International Journal of Engineering Research & Technology (IJERT)	Vol. 2 Issue 8, August – 2013, ISSN: 2278- 0181,
4	Kedhareswarao/Ba lakrishna Rupavath	An FPGA architecture based on linear and morphological image filtering	International Journal of Engineering Trends and Technology (IJETT)	Volume 4, Issue 6, June 2013

### ECE: 2012-2013

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Mr.R Prasada Rao/N.Venkatagane sh Moturi	Semi-custom Implementation of high speed, Area efficient 16:1 multiplexer	IRACST - International Journal of Advanced Computing, Engineering and Application (IJACEA),	Vol.1,No.3, Dec 2012 ISSN: 2319- 281X
2	Rongali Aneel Kumar, B.N. Srinivasa Rao, R. Prasad Rao	Design and analysis of 16- bit full adder using Spartan-3 FPGA	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	Vol.1,Issue 7, Sept 2012, ISSN:2278- 1323
3	Mr.E Govinda/Emily	A Novel Approach of speed optimization Design	International journal of scientific Engineering and	Volume 01,Issue No.2,

	Grace	for General Linear Feedback Shift Register Structures	Technology Research	Jul-Dec 2012, ISSN 2319-8885
4	Mr. BN Srinivsa Rao/T.Divya Bharathi	Published a paper named "Design and Implementation of Low-Power High-Speed Full Adder cell using GDI Technique"	International Journal of Engineering Science and Innovative Technology (IJESIT)	Vol 2, issue 2, 2012
5	Mr. BN Srinivsa Rao/K.Ramu	Published a paper named "Implementation of area efficient 16bit adder in SPARTAN-3 FPGA"	International Journal of Engineering Science and Innovative Technology (IJESIT)	ISSN: 2319 Vol 2, issue 2, Mar 2012 -5967
6	Mr. BN Srinivsarao	Published a paper named "Carry-save adders in FPGAs"	International Journal of Electronics and Computer Science Engineering (IJECSSE)	Vol 2,issue 3, 2012
7	Mr. BN Srinivasarao	Published a paper named A FPGA Implementation of memory efficient distributed arithmetic FIR filter"	International Journal of Computer Science & Engineering Technology	Vol 2,issue 9, Sept 2012
8	Rongali Aneel Kumar/ B.N. Srinivasa Rao/ R. Prasad Rao	Design and analysis of 16-bit full adder using Spartan-3 FPGA	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	Vol. 1,Issue 7, Sept 2012 ISSN:2278-1323
9	Mr. P Ashok Kumar/B.Vijaya bhaskar	Design of adiabatic logic based low power carry select adder	International Journal of Engineering Research and Applications (IJERA)	Vol 2,issue 6, July 2012

10	Mr. M Kedareswara Rao	A full custom design and implementation of counting bloom filter.	International Journal	2012
11	Divya Madhuri, Kedhareswarao, Madhavi Latha, Bolla Prasad	Design of reconfigurable multipliers based on high speed Shannon adder	International Journal of Engineering Research & Technology (IJERT)	Vol. 1, Issue 7 (September - 2012)
12	Divya Madhuri/ Kedhareswarao/Ramesh kumar/Madhavi Latha	Analysis of reconfigurable multipliers for integer and Galois field multiplication based on high speed adder	2nd International Conference on Communication, Computing & Security [ICCCS-2012]	2012
13	Kedhareswarao	Design of clip using core centric protocol	International Journal of Engineering Research And Applications(IJERA)	Vol 3, issue 1, 2012
14	Mr. D Rahul Varma/ A.Uday Kumar, B. VijayaBhaskar	Reconfigurable Vrtribi Decoder	International Journal of Engineering Research And Applications(IJERA)	Vol 2, issue 6, Sep 2012
15	D. Prasanna Kumari/ R.Surya Prakasha Rao/ B.Vijaya Bhaskar	A Future Technology For Enhanced operation in Flip-Flop oriented Circuits	International Journal of Engineering Research And Applications(IJERA)	Vol 2, issue 4, July 2012
16	Mr. Venkata Ganesh	Semi-Custom Implementation of High	IRACST - International Journal of Advanced	Vol. 1, No.3, December

	Moturi/R.Prasadrao	speed, Area efficient 16:1 Multiplexer	Computing, Engineering and Application (IJACEA)	2012 ISSN: 2319-281X,
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**ECE: 2011-2012**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Mr.R Prasada Rao	Design of VHDL based FIR Filter Using Redundant Binary Number Systems.	Vsrd journals	Vol. 1 (10), Dec.2011
2	Mr. BN Srinivsa Rao	“0.69mW, 700MHz novel 8X8 Digital Multiplier”	International Conference IJCTE	Vol. 3, No. 5, October 2011
3	Mr. BN Srinivsa Rao	Published and presented a paper named “Audio water masking chip implementation – Covert Communications”	International Conference ICACCBIE	2011
4	Mr. B.N. Srinivasa Rao	Published and presented a paper named “Water Masking Chip using Conversion of Covert”	NCACEE	2011
5	Mr. B.N.Srinivasa Rao	Published and presented a paper named “On-System level use of BIST for Programmable Input Output buffer in PPGA’s”	National Journal	2011

**EEE: 2015-16**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	T.Srinivasarao	Contingency analysis using fast decoupled method	International conference on Electrical ,Electronics &Optimization(ICEE OT)	978-1-4673-9939-5/16/\$31/2016
2	T.Srinivasarao	Workshop on “Recent trends in Power Electronics for smart Grid And Electrical Drives	National power electronics conference,Patna	3 <sup>rd</sup> ,5 <sup>th</sup> March 2016
3	K.Tejeswara Rao	A mixed model reduction method for the discrete time high-order systems	International journal of control theory and applications. <b>(SCOPUS)</b>	2016
4		A new method for order reduction of high order multi variable systems using modified routh approximation technique	International journal of control theory and applications <b>(SCOPUS)</b>	Volume : No.9 (2016) Issue No. :5 (2016) Pages : 2213-2220

**EEE: 2014-15**

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
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1	T.Srinivasarao	A novel unique 5-level cascaded multilevel inverter based active power filter for power Quality enhancement	International Journal of Science, Engineering and Innovative Research (IJSEIR)	Vol-4,issue-13 ,May-2015 ISSN:2319-8885
2	T.Srinivasarao	Study of THD in different CHB MLI's controlled with unipolar and bipolar carrier based modulation techniques	International Journal of Research in Science & Technology (IJRST)	Vol-2,issue-5,May-2015
3	K.Tejeswara Rao	A novel approach for order reduction of high order discrete time systems using modified routh approximation method via w-domain	Computational intelligence in data mining and published in conference proceedings of <b>SPRINGER</b>	Volume 410 pp 21-27 December 2015
		Application of mihalov criterion for reduction of high order MIMO systems	International journal of applied engineering research ( <b>SCOPUS</b> ).	Volume 10, Number 23 (2015) pp.20740-20742

#### EEE: 2013-2014

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	T Srinivasa Rao	A Novel Power Quality Improvement Technique Using Multi-Connected Distributed Power Flow Controller (MC-DPFC)	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Vol. 2, Issue 10,Oct 2013

			(An ISO 3297: 2007 Certified Organization)	
2	T. Srinivasa Rao	New Efficient Bridgeless Cuk Rectifiers for PFC Application on d.c machine	International Journal of Engineering Research and Development	Volume 9, Issue 1 Nov 2013 e-ISSN: 2278-067X, p-ISSN: 2278-800X
3	Tegala. Srinivasa Rao	Integration of Matrix Converter with DTC of Induction Motor Drive Applications	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization)	Vol. 2, Issue 10, Oct 2013 ISSN (Print) : 2320-3765 ISSN (Online): 2278-8875
4	Tegala Srinivasarao	Performance Evaluation of Isolated Wind/Hydro & PV Hybrid System for Standalone Power Generation	International Journal of Power System Operation and Energy Management,	Volume 4, Issue-2
5	Tegala Srinivasa Rao	High Performance of Matrix Converter Fed Induction Motor For IPF Compensation by Using New DSVM Method	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)	Volume 8, Issue 5, Nov-Dec 2013 e-ISSN: 2278-1676, p-ISSN: 2320-3331,

6	Tegala Srinivasa Rao	A Current Control Method for SVM Based Voltage Source Inverter with LC Filter	International Journal of Electrical and Electronics Engineering(IJEEE), Volume 4, Issue-2	Volume 4, Issue-2,2013 ISSN(Print):2 231-5184
7	P Anil Kumar	Voltage Source Inverter/Converter for the Improvement of Power Quality using Fuzzy Logic Controller	International Journal of Engineering Research and Applications	Vol.4, Issue 5 ISSN:2248- 9622
8	M V Ramana Murty	A Current Control Method for SVM Based Voltage Source Inverter with LC Filter	International Journal of Electrical and Eletronics Engineering(IJEEE),	Volume 4, Issue-2 ISSN(Print):2 231-5184

### EEE 2012-2013

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	K Durga Rao	Fuzzy Logic Based Intelligent Controller Design For An Injection Mould Machine Processor Control	International Journal of Advances in Engineering Sc ience and Technology	Vol No. 10, Issue No. 1,2012
2	U. Anjayya	Reduction of Torque and Ripple in direct torque control of induction motor	National conference on recent developing in electrical engineering(NCRDE E-2013)	2013



**EEE 2011-2012**

<b>S.No</b>	<b>Name of faculty</b>	<b>Title of paper published</b>	<b>Journal/Conference</b>	<b>Volume/Year</b>
1	T Srinivasa Rao	Interval Modified Fast Decoupled Method for Power Flow Studies	International Journal of Electrical Engineering Applications Research - IJEEAR. January	Vol 03, Issue 01,Jan 2012

**Mech: 2015-2016**

<b>S.No</b>	<b>Name of faculty</b>	<b>Title of paper published</b>	<b>Journal/Conference</b>	<b>Volume/Year</b>
1	Abhishek Kumar	A design of emission less engine	International Journal on Mechanical Engineering and Robotics (IJMER)	Vol 3,Issue 3,2015
2	Srinivas Naidu	Numerical study & determination of thermal conductivity of paper-Fenugreek composite	International Journal and Magazine of Engineering, Technology, Management and research	Vol 2, Issue:10 Oct 2015 ISSN :2348-4845
3	Dadi Teja	Retardation of jet planes on warships by using capillarity	S.S International of multidisciplinary Research	Vol- 2,Issue:6,2015 ISSN: 2395-7965.
4	Sumeet Kumar Dubey/Ramesh bhukya	Breaking of carbon-dioxide using ultra violet rays	International Conference on Renewable Energy and Environmental Engineering	2015

			(ICREEE)	
5	Bishwas kumar,shabbaz khan ,surakasi raviteja	Performance improvement and wastage elimination in thermal powerplant	International Journal on Mechanical Engineering and Robotics (IJMER)	2015
6	Bishwas kumar,shabbaz khan ,surakasi raviteja	Performance and emission investigation on single cylinder di-desel engine with catalytic converter using bio- diesel	IJIRT	Vol.2,Issue.11 ISSN:2349- 6002,Apr 2016

### 2014-2015

S.No	Name of faculty	Title of paper published	Journal/Conference	Volume/Year
1	Karanam Krishna	Experimental investigation and analysis of cutting parameters in CNC Turning on aluminium	International Journal of Engineering Technology, Management and Applied Sciences	Vol -3,Issue- 1,Jan 2015 ISSN:2349- 4476
2	Sumeet Kumar Dubey	Generation of electricity through atmosphere	International Conference on emerging Trends in Engineering and Research. International Conference on Emerging Trends in Engineering Research ICETER	22nd Mar 2015 ISBN:978-15- 089715-59

#### 3.4.4 Provide details (if any) of

\* research awards received by the faculty

**Dr.G.Apparao naidu:** Dept. Of CSE has awarded Doctorate JNTUK in 2011

**Dr.M.Naresh babu:** Dept. Of CSE has awarded Doctorate by ANU in 2012

**Dr. R.V.Amarnath :** Dept. Of EEE has awarded Doctorate by JNTUH in 2012

\* recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally

#### **CSI:**

No of students having member ship: 126

No of Staff having member ship: 03

#### **IETE:**

No of students having member ship: 60

No of Staff having member ship: 13

#### **IEEE:**

No of students having member ship: 20

No of Staff having member ship: 05

Name of the Faculty	Dept.	Designation	Citation/Honour
Dr. C.P.V.N.J Mohan Rao	CSE	Professor	Acted as chair to international conference organized by CSI at

			Vizag
Sri. T.Srinivasarao	EEE	Assoc. Professor and HOD	Acted as chair to international conference organized by CSI at Visakhapatnam.

\* Incentives given to faculty for receiving state, national and international recognitions for research contributions.

- Staff members are encouraged to attend seminars, conferences, workshops and short- term courses by providing TA/DA and registration fee.
- Necessary books and journals are provided for those who are pursuing research. Sufficient freedom is allowed to the staff for innovation and reforms in the teaching and learning process.
- Faculty members are sanctioned study leave for pursuing Ph.D.. and M.Tech.
- Faculty members are encouraged to take up developmental activities such as book-writing, paper publication, research projects and conducting student activities.
- All the teachers with M. Tech/ Ph.D. are encouraged to apply for financial assistance to any research funding agency (UGC, AICTE etc).
- Faculty members are encouraged by giving financial support for presenting papers in conferences and for publishing research articles in journal

### 3.5 Consultancy

#### 3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

Institution established Industry collaborations for getting assistance in placements as well as research activities for the students, invite companies for conducting campus placements. The cell continuously coordinates with the various industries and organizations for placement of the students. It lies with the corporate sectors and helps in developing the industry-academic inter-relationship.

The Placement Officer is actively involved with various corporate sectors to undergo a memorandum of understanding for the placement of students every year. The Training and Placement Officer makes regular visits to various companies across the nation to project the capability of the students' skills to fulfill the requirements of the corporate world.

Our college has exclusive agreement with companies like JKC, Globarena, etc for the training. The institute keeps in touch with the passed out students of the college who are presently working in the companies. These students are also very helpful in arranging the visits of the companies for placements.

### **3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?**

The institute is running undergraduate programs in various disciplines of engineering and Post graduate programmes in CSE, ECE, and EEE during the initial years of the institute the thrust has been on providing quality teaching and make students employable. The demography of faculty strength in various departments varies from young to senior level professors with specializations. In the area of consultancy the institute has started its aspirations of sharing knowledge and its technical infrastructure with industries and other educational institutions providing professional or technical education located in the NCR zone as well as within the state.

### **3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

The institute encourages its senior faculties to attend annual conferences of industry

associations like CSI, IETE,IEEE industrial bodies at Visakhapatnam etc. where they can make their presence felt through contributions and networking with the prominent people of Industry. The remuneration received through consultancy services by the individual faculty and staff is distributed between concerned faculty and the institute as per the well stated guidelines of the institute.

**3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.**

- Providing knowledge support to peer institutions (Govt. aided/self financed) through invited/guest lectures, course/curriculum design, question setting, member technical for selection of faculty and staff.

**3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?**

The income generated through consultancy is on the ratio of 60:40 (**Staff: Institute**).The financial revenue is used for R&D and incidental expenses.

**3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the institution promote institution neighborhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The institution promotes college neighborhood network community development by conducting regular activities related to social responsibilities of the institute. NSS Units comprising of more than 400 students are active in community development activities like:

- Cleaning of villages
- Pulse polio
- Tree plantation
- Adult education
- Free education to the children of laborer including free notebooks and pens
- Blood donation camps
- Extending playground and material available to neighboring village youth

- Conducting national festivals inviting local people and officials
- Extending library books & magazines to villages

The institute is conscious of its role in campus cum community connections, wellbeing of its neighborhood as well as build student's attitude for service orientation and good citizenship. During recent Hud-hud cyclone in Visakhapatnam, A.P. on 12/10/2014 students actively collected monetary donations and other charities among themselves apart from packaged food items / clothes etc to help of affected population of villages around the college.

### **3.6.2 What is the institutional mechanism to track student's involvement in various social activities / movements which promote citizenship roles?**

To track student's involvement in various social activities, the institute has established a system of faculty members as mentors for each 30 students to keep records of their participation in such activities. Further at the end of the semester, such data is compiled at HOD level.

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
TAMARAM, MAKAVARPALEM  
Annual calendar NSS Activities  
2016-17.**

Sl.No	Month and Year	Activity
1	JUNE	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• ENROLLMENT O NEW VOLUNTEERS</li> <li>• MEDICAL CAMP</li> </ul>
2	JULY	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• BLOOD DONATION CAMP</li> </ul>
3	AUGUST	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• INDEPENDENCE DAY</li> <li>• SCHOOL DROP OUTS</li> </ul>
4	SEPTEMBER	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• BHAGATH SINGH BIRTHDAY</li> <li>• ROAD SAFETY AWARENESS</li> </ul>
5	OCTOBER	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• GANDHI JAYANTHI</li> <li>• LITERACY CAMPAIGN</li> <li>• CAMPAIGN AGAINST USAGE OF CRACKERS</li> </ul>
6	NOVEMBER	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• PULSE POLIO</li> <li>• MEDICAL CAMP</li> </ul>
7	DECEMBER	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• VILLAGE CAMP</li> <li>• AIDS AWARENESS</li> </ul>
8	JANUARY	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• CAMPAIGN AGAINST COMMUNICABLE DISEASES</li> <li>• REPUBLIC DAY</li> <li>• VIVEKANANDA JAYANTHI</li> <li>• SUBASH CHANDRABOSE JAYANTHI</li> </ul>
9	FEBRUARY	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• CLEANILESS AND HYGINITY AWARENESS</li> </ul>
10	MARCH	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• DRINKING WATER FACILITY ON THE ROAD SIDE OF COLLEGE</li> </ul>
11	APRIL	<ul style="list-style-type: none"> <li>• CLEAN AND GREEN</li> <li>• DRINKING WATER FACILITY ON THE ROAD SIDE OF COLLEGE</li> </ul>
12	MAY	-----

**3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?**

The stake holders of the institute i.e. student, faculty & staff, parents, alumni, employers and regulators are tried to interact with the institution over associated events like onsite inspections by AICTE/UPTU/NBA/NAAC experts. Alumni meet, parents meet, students feedback etc. so that their participation about overall performance and quality of the institution is obtained/ de-ciphered.

**3.6.4 How does the institution plan and organize its extension and outreach programs? Providing the budgetary details for last four years, list the major extension and out reach programs and their impact on the overall development of students.**



NSS unit of the institutes is year marks the activities that going to organize.

**2015-2016 activity schedules:**

<b>S.I.no</b>	<b>Scheduled</b>	<b>Activity</b>
1	August 2015	Blood donation camp
2	Sep 2015	Health care camps
3	Nov 2015	Adult education
4	Dec 2015	RTI Awareness
5	January 2 016	Pulse Polio
6	Feb 2016	clean the campus
7	March 2016	Medical Counseling on Diseases
8	Apr 2016	Health care camps

The institute management plans and organizes number of extension and outreach programs in neighborhood population. NSS unit of the institutes is quite active in such endeavors. The details of annual expenses on social welfare activities are appended below.

<b>Social welfare Expenses</b>	
<b>Financial Year</b>	<b>Budgetary Details (Rs)</b>
2015-16	30000.00
2014-15	35000.00
2013-14	30000.00
2012-13	37361.00
2011-12	33832.00
2010-11	25726.00

The major extension and outreach programs conducted over the years may are

- Blood donation camp.
- Computer literacy training to local school students.
- Health care camps on dental and oral hygiene in neighborhood villages.
- Adult education to agricultural labor.
- Tuition classes to mess workers and children of agriculture.
- Distribution of blanket to sweepers/safaiwala and mess staff.

### **NSS ACTIVITIES FOR 2011-12 INCLUDING SPECIAL CAMP AT PYDIPALA FROM 15-02-2012 TO 21-02-2012**

1. Literacy Campaign Launched by the Director Dr.C.Mohan Rao books and pens were distributed to the students of Upper Primary School at Pydipala



2. Medical Camp: Medical camp was conducted by the volunteers under the guidance of Dr.C. Mohan Rao, Principal of the college and Chairman of NSS. Medical Counseling on Diseases was done by Dr.K.V.Satyanarayana, Pediatrician. He also conducted medical checkup and distributed free medicines



3. RTI Awareness: There was an meeting for the villagers on RTI by Mr.K.V.Ramana, convener, RTI Rakshana Vedikha, North Andhra Region.

4. Awareness of diseases: NSS Volunteers went on door to door campaign to spread awareness and distributed pamphlets on diseases awareness.

5. Cleanliness Campaign: Dr.C.Mohan Rao, Principal addressed the villagers of the importance of cleanliness. Volunteers Presented Skits on individual cleanliness.



6. Pulse Polio: NSS Volunteers assisted the pulse polio program of the government workers in nearby villages.

**Celebration of National Days:** Independence Day, Republic day, Teachers Day, NSS day, etc..... Were celebrated under the Banner of NSS.



Swami

Gunesananda of Ramakrishna Mission, Visakhapatnam addressed the students and spoke on the importance of moral values and on the life of swami vivekananda



8. Campus cleaning: NSS Volunteers regularly clean the campus under the banner Clean and green.





9. There was a rally by NSS Unit in collaboration with Avanthi Group of colleges at beach road protesting against a gang rape of Miss.Nirbhaya.



10. There was a morning meeting in the college on the sad demise of Miss.Nirbhaya. The male students pledged to pay high honor to the female world. Dr.C.Mohan Rao, Principal advised the students to develop self restraint and honor elders and women as per the great Indian tradition.



- Mass Awareness Programs on “Water Conservation & Harvesting “, “Women & Hygiene”and “Role of Engineers for Environment Protection”, “Anti-Terrorism “, “Anti – Ragging” were conducted by student community & faculty in the campus and off the campus.
- Health Awareness Camp: NSS students conducted health awareness camp and there were program against infected diseases. The volunteers also conducted door to door campaign and cleaned the roads and surroundings



- Every beginning of the semester an Anti Ragging Awareness Programs are being conducted in the campus and as well as at Visakhapatnam City for creating awareness amongst the new entrants.

### **3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other national/ international agencies?**

During the orientation program of newly admitted students the faculty/ student coordinators of NSS and clubs like optimists and various societies, carryout presentation to students on the benefit and 73

scope of extension activities. Information regarding proposed activities is notified through circulars, web notifications, in academic and hostel building on a regular basis. Every student is encouraged to become a member of NSS/ societies for participation in extension activities. Planning and execution of NSS Activities. Thrust areas/ Burning problems are identified by the senior teachers of the institute and NSS committee will discuss and chock out a programme. During the recent demonetization by Govt. of INDIA the NSS team of our college has taken initiate and conducted seminar to promote cashless transactions among the public. We have taken up following activities.

1. Adopted neighboring Tamaram Village and educated all the villagers on cashless transactions.
2. NSS team have organized rallies in Makavarapalem and Kannurupalem with playcards and slogans to create awareness among the public.
3. Volunteers have organized door to door campaign and explained the villagers the usage of smart phone, Paytm, SBI Buddy to perform their day to day activities.
4. One awareness meet is organized in the college to train the students to promote cashless transactions and to educate their kit and cane.



**3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under privileged and vulnerable sections of society?**



The institute is making a conscious effort to promote social justice as a value in learning process. The institution sincerely practices A.P.Govt. Social affirmative schemes for the upliftment of underprivileged communities. The college NSS unit has been organizing programs in and outside the college for the benefit of nearby community. Required facilities are given to differently-able students.

S.I.no	social surveys
1	Conducted Students awareness program on road accidents and traffic signals and other precautions.
2	Faculty deputy for election duties as polling officers.
3	Youth Festival celebrated on the occasion of Swami Vivekananda Birthday- On Moral values .
4	Cleanliness Campaign
5	Pulse polio program
6	Literacy Campaign

**3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

Participation of students in an extension activities do inculcate following values & quality in their growing personalities complimenting their academic learning experiences-

- Building of self-confidence.
- Development of inter personal skills.
- Sense of responsibility towards society.
- Helping and carrying attitude towards differently able people.

- Respect for nature & environmental protection needs.
- Positive approach towards work and life.
- Joint-man ship & sense of togetherness.
- Health awareness camp in a village named Tamaram org. by NSS. With the objective of creating awareness in the community about disease, prevention and proper use of medicines. 250 villagers/patients were benefited. Doctors attended the patients and free medicines were distributed. Around 50 students & 4 faculties participated in the event.

**3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

The institute takes the help of elders and influential people like village head, members of gram panchayat to ensure the involvement of local population in its community development activities. To win the confidence of local population the institute organizes various awareness programs like free dental & health care camps, village cleaning drives, eye checkup camps etc.

**2015 – 16:**

<b>S. No</b>	<b>Details of the Activity</b>	<b>Place</b>	<b>Organization</b>
1.	Campus cleaning: removing of plastic waste material.	College Campus	AIET NSS VolunTERS
2.	Awareness campaign on ship building organized by NSS unit. Shipyard DGM sri.Perummal,AGM sri.Srinivasarao has given powerpoint presentation.	College Campus	Hindusthan Shipyard, Visahkapatnam

**2014 – 15:**

<b>S. No</b>	<b>Details of the Activity</b>	<b>Place</b>	<b>Organization</b>
1.	“CLEAN and GREEN” Campus Cleaning programme following the dictum ‘Dignity of labor’.	College Campus	AIET NSS VolunTERS
4.	Removing waste material from “HudHud” hit ZP High School,Anakapalle.Sri M.Srinivasarao,MP and Chairman of Avanathi Group of colleges,Principal,Staff and volunteers participated.	ZP High School,Anakapalle	ZP High school

5.	Campus cleaning: removing of plastic waste material.	College Campus	AIET NSS Volunteers
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**2013 – 14:**

S. No	Details of the Activity	Place	Organization
1.	Plantation programme in the campus. The volunteers planted neem saplings and watered them. They planted about 200 saplings around the college building. The program was inaugurated by Dr.C.Mohanrao, Principal of the college.	College Campus	AIET NSS Volunteers
2.	Road safety awareness programme.	College Campus	RTA, Visakhapatnam
3.	Literacy Campaign, books and pens were distributed to the students. program launched by Dr. C. Mohan Rao	Upper primary School, Thamaram	MEO, Narsipatnam
4.	Awareness Programme on Communicable diseases.	Thamaram village	DMHO, Narsipatnam
5.	RTI Awareness: There was an meeting for the villagers on RTI, Convener RTI Rakshana vedhika, North Andhra Region.	Thamaram village	RTI, Andhra
6.	Cleanliness Campaign: Dr. C. Mohan Rao, Principal addressed the villagers of the importance of cleanliness. Volunteers presented Skits on individual cleanliness	Pyidipala village	AIET NSS Volunteers
7.	Campus cleaning.	College Campus	AIET NSS Volunteers

**2012 – 13:**

S. No	Details of the Activity	Place	Organization
1.	“CLEAN and GREEN” Campus Cleaning programme following the dictum ‘Dignity of labor’.	College Campus	AIET NSS Volunteers
2.	Plantation programme in the campus. The volunteers planted neem saplings and watered them. They planted about 200 saplings around the college building. The program was inaugurated by Dr.C.Mohanrao, Principal of the college.	College Campus	AIET NSS Volunteers

3.	Road safety awareness programme.	College Campus	RTA, Visakhapatnam
4.	Literacy Campaign, books and pens were distributed to the students. program launched by Dr. C. Mohan Rao	Upper primary School,Pyidipala	DEO, Narsipatnam
5.	Medical camp: Medical Counseling on diseases by K.V.Satyanarayana, Pediatrician	Pyidipala village	DMHO, Visakhapatnam
6.	RTI Awareness: There was an meeting for the villagers on RTI by Mr.K.V.Ramana, Convener RTI Rakshana vedhika,North Andhra Region.	Pyidipala village	RTI, Andhra
7.	Cleanliness Campaign: Dr. C. Mohan Rao, Principal addressed the villagers of the importance of cleanliness. Volunteers presented Skits on individual cleanliness	Pyidipala village	AIET NSS Volunters
8.	Pulse Polio: NSS Volunteers assisted the pulse polio program of the government workers in nearby village.	Pyidipala village	DMHO, Visakhapatnam

**3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

Informal relationship with the office bearers of various societies of the institute and prominent senior citizens of nearby villages have been established in a cordial manner for successfully working on various outreach and extension activities of the institutes. However no formal relationship in form of MoU, agreement etc. has been forged between two parties (college and villages).

Sl.no	social surveys	In collaboration
1	Conducted Students awareness program on road accidents and traffic signals and other precautions.	RTA ,Narsiapatnam

2	Faculty deputed for election duties as polling officers.	Govt. of Andhra Pradesh , Election commission
3	Youth Festival celebrated on the occasion of Swami Vivekananda Birthday- On Moral values .	Ramakrishna Mission, Visakhapatnam
4	Cleanliness Campaign	With Rotary club Narsipatnam
5	Pulse polio program	With Govt. Hospital Narsipatnam
6	Literacy Campaign	With Govt. High school and Village development officers (VDO), Makavarapalem.
7	Entrepreneurship Programm	JNTUK , Visakhapatnam port trust

**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.**

- For extension activities and contributions towards community development the institutes efforts and contributions are very well recognized by the local population/ Villages and the institute is well respected by villagers & officials around the college.
- **Contributions:** some of these are
  - Blood donation camp
  - Literacy Campaign

- RTI Awareness
- Awareness of diseases
- Cleanliness Campaign
- Pulse Polio





### 3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

- The Infosys campus connects program invites the faculty for the faculty development program “Train the Trainee” conducted at Infosys campus, HYD.
- The faculty training program from Andhra University and JNTU Kakinada allows the faculty to attend latest technology development program at university campus and invites the faculty from university and IITs to visit our college.
- The institute maintains rapport with all the industries. The Placement officer and HODs

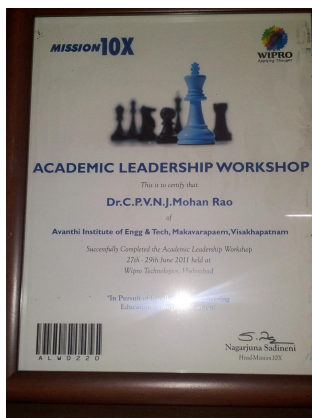


constantly in touch with the industry experts and invite them to the college and arranges interaction sessions to the students.

- The institute is a member of Industry – academia programs offered by Infosys and Wipro Technologies.
- As member of Campus Connect Program of Infosys the college is Offering Foundation Program (FP) to the students. The faculty of the college has taken training under Faculty Enablement Program (FEP) and training the students for Foundation Program. The following faculty members of the Institute has attended FEP program offered by Infosys.

- Dr. CPVNJ Mohan Rao
- G Shyam Kumar
- P Poulesh
- N Swaroop
- G Shankar

- The institute is also a member of Mission 10X initiative of Wipro Technologies. Several faculty members of the college has attended various workshops conducted by Mission 10X of Wipro. Dr. C P V N J Mohan Rao, Principal has attended three day workshop on Academic Leadership program during 27<sup>th</sup>-29<sup>th</sup> June 2011 at Wipro Technologies, Hyderabad.



The following faculty members have attended Mission 10X workshops.

- V Kumar
- N V Ashok Kumar
- N Swaroop

- M Satyanarayana
- V Jaya Vani

Eplus club is a concept developed by the reputed national English daily The Hindu for enhancing the soft skills of the students. Several articles related to this aspect are being covered in The Hindu every Monday in the supplement Education Plus. Colleges can make use of this benefit by launching EPlus clubs in the college and following the schedule given the Education plus. The college has started Eplus club in association with The Hindu and about 200 students has joined as members. Programs are being organized to develop soft / communication skills of these members by conducting group discussions, elocution, quiz, paper presentations etc. Mr. J Konda Babu, Asst. Professor, Department of English is acting as Coordinator of E-plus club

**3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.**

The Institution is made MOU's with many Universities and Industries in India for developing the research promotional activities for the students and also the faculty community. The below is the list of the collaborations

- AIET- Infosys MOU “ campus connects program”, since 2012
- AIET-Wipro Mission 10X learning approach, since 2013.

**3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.**

- Interaction with eminent personalities from various reputed universities and industries is very useful for the creation of establishing better academic facilities for staff and students.
- As stated below organizations are providing assistance in aspect of technically and theoretically.

- The labs are being upgraded for the upkeep of equipments in respective laboratories.
- The placements process got a boost by industry- institute- interactions. Which help students to pLakhse in different prestigious organizations

<b>Year</b>	<b>Number of Students attended</b>	<b>Details of the Professional organizations</b>
2010-11	312	TIME, Visakhapatnam
2011-12	287	TIME, Visakhapatnam
2012-13	304	Globerana Technologies,Hyderabad
2013-14	320	IT Curves ,Hyderabad
2014-15	355	IT curves, Hyderabad and OMEGA ,HYD

**Industry- institute- interactions (Training and Placement cell):-**

<b>S.I.no</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Remarks</b>
1	M. S. Subramanyam	Head, TCS, Hyderabad	Student interaction
2	Mr. Ravi Eswarapu	Head, Mahindra Satyam Visakhapatnam	Student interaction
3	Kolluru ravi Chandra	Head Tech Mahindra, Visakhapatnam	Student interaction
4	S.S.Sarma Rayaprolou	Virtusa , Hyderabad	Student interaction
5	Narendra Nerla	Vice president Inspire Edge IT solutions,vsp	Student interaction

6	Kolluru Ravi Chandra	Head Tech Mahindra, Visakhapatnam	Student interaction
7	Mr Ray Perera	CEO, Kenexa technologies, Visakhapatnam	Student interaction
8	Sri Rajesh N	Group Head Miracle Software systems, Visakhapatnam	Student interaction



M. S. Subramanyam, Head, TCS, Hyderabad taking up a session to our students



Mr. Ravi Eswarapu, Head, Mahindra Satyam Visakhapatnam addressing our students

**3.7.4 Highlighting the names of eminent scientists/participants, who contributed to the events, provides details of national and international conferences organized by the college during the last four years.**

**2015-2016: PRERANA 2k16**

<b>S.l.no</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Contribution</b>
1	Sri.V.Madhu Sudhan	Chairman and managing director, Vizag Steel plant	Chief guest
2	Prof.R.V.RajKumar	Director IIT,Bhuwaneswar	Guest of Honour
3	Sri.P.V.S Ganesh Kumar	Assoc. Director NSTL,Visakhapatnam	Guest of Honour
4	Sri.M.Venkata ratnam	Scientific officer H, BARC, Visakhapatnam	Resource/ Special guest

**2014-2015: Avishkar 2k15 (National conference) - 13/2/2015 and 14/2/2015:**

<b>S.l.no</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Contribution</b>
1	Sri.Palle Raghunatha Reddy	Hon'ble minister for IT,Govt of AP	Chief guest
2	Sri.Ganat. Srinivasarao	Hon'ble minister for HRD,Govt of AP	Chief guest
3	Sri.Ravela Kishore babu	Hon'ble minister for social welfare , Govt of AP	Chief guest

<b>S.I.no</b>	<b>Name of the expert from industry /University</b>	<b>Designation</b>	<b>Contribution</b>
1	Prof.B.Prabhakar rao	Vice chancellor ,JNTU, Kakinda	Expert talk
2	Dr.M.Lakshmi narayana	DLRL,Hyderabad IEEE chairman for Hyderabad section	Expert talk
3	Prof. Arun K Pujari	University of Hyderabad ,Hyderabad	Expert talk
4	Prof.K.Srinivasa reddy	IIT,,Chennai	Expert talk
5	Dr.Sriram Srinivas	IIT, Chennai	Expert talk
6	S.S.Sarma Rayaprolou	Virtusa ,Hyderabad	Expert talk
7	Narendra Nerla	Vice president Inspire Edge IT solutions, Visakhapatnam	Expert Talk
8	Dr.G.Ravi kumar	Scientist G,Assoc.Director NSTL,Visakhapatnam	Expert Talk
9	Prof.S.Pallam Setty	Dept of computer.sci &Engg, A.U, Visakhapatnam	Expert talk
10	Kolluru Ravi Chandra	Head Tech Mahindra, Visakhapatnam	Expert talk
11	Mr Ray Perera	CEO, Kenexa technologies, Visakhapatnam	Expert talk

**2013-2014: TECH-REPERIO 2k14 (National conference) - 04/4/2014 and 05/4/2014:**

<b>S.I.no</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Contribution</b>
1	Prof. P. Vijay Prakash	Vice Cshairman AP State council for higher education ,AP	Chief guest

2	Prof. Ch Ratnam	Principal AU college of Engg for women, AU	Guest
3	Sri.GVS Haribabu	Principal Government Polytechnic, Narsipatnam	Guest
4	Prof. G S N Raju	Vice chancellor	Chief guest
5	Prof. G V R Prasada Raju	Registrar,JNTUK	Guest
6	Sri S Surya Shankar	DGM(telecom),BSNL	Expert Talk
7	Sri K Srinivasa Rao	Div.Engineer, AP transco	Expert Talk
8	Sri Rajesh N	Group Head Miracle Software systems	Expert Talk

**2012-2013: Sanketik Samahar (National conference)**

<b>S.I.no</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Contribution</b>
1	Prof. Allam Appa Rao	Vice Chancellor ,JNTU, Kakinda	Chief guest
2	Prof. K C Reddy	Chairman, APSCHE	Chief guest
3	Prof. R V Raj Kumar	Vice Chancellor, RGUKT, Hyderabad	Expert Talk
4	Prof. B M Mohan	Department of EE, IIT, Kharagpur	Expert Talk
5	Prof. Sridevi	Department of ECE, Andhra University	Expert Talk
6	Mr Ray Perera	CEO, Kenexa technologies, Visakhapatnam	Expert Talk
7	Prof. SK Udgata	Department of Computer Science & Engg, University of Hyderabad	Expert Talk



**Dr. Trivikrama Varma IPS, Addl. Supdt. Of Police addressing our students**



**Prof. G Tulasi Ram Das, VC, JNTUK on the occasion of Resonance**



**Prof. M Ramalinga Raju, HOD, Department of Electrical Engg., JNTU, Kakinda addressing our students on the eve of Zakti 2K11**



**Sri Nagaraju, General Manager, BSNL and Prof. Padma Raju, Professor, Department of ECE, JNTU Kakinada releasing souvenir on the eve of Adwithiya**





**Prof. Allam Appa Rao, Vice Chancellor, JNTU, Prof. K C Reddy, Chairman, APSICHE, on the eve of inauguration of Sanketik Samahar**



**Prof. R V Raj Kumar, Vice Chancellor, RGUKT, Hyderabad addressing our students on the eve of valedictory of Sanketik Samahar**



**Prof. B M Mohan, Professor, Department of EE, IIT, Kharagpur delivering a lecture on the eve of Sanketik Samahar**



**Prof. Sridevi, Department of ECE, Andhra University visiting the technical exhibition**



**Mr Ray Perera , CEO, Kenexa technologies, Visakhapatnam addressing our students**



**Prof. Ch. Sai Babu, HOD, Dept. of EEE, JNTUK addressing the students on the eve of ECUBE**



**Students exhibiting Wind power generation unit**



**Prof. K Satya Prasad, Rector, JNTU and Professor ECE addressing our students on the occasion of Anushana 2 K12**



<b>Sri. L S Rao, Vice-President, ANRAK Addressing the Students on the eve of Yantrik</b>	<b>Prof. SK Udgata, Department of Computer Science &amp; Engg, University of Hyderabad delivering a lecture on Wireless sensor Networks.</b>
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**Industry-institution-community interactions:**

<b>S.I.no</b>	<b>Name of the Eminent personality</b>	<b>Topic</b>	<b>Contribution</b>
1	M. Venkata Ratnam, Scientist H, BARC, Visakhapatnam	Nuclear Power Plant Design	2015-2016
2	B. Venkata Rao, Sc-D, Visakhapatnam	BLDC Motor	2015-2016
3	K. Bhagavan Prasad, SDE	2G, 3G, 4G Technology	2015-2016
4	G. Nagaraju, Vice president Operations	Challenges in Production Industry	2015-2016
1	Dr.M.Lakshmi narayana DLRL,Hyderabad	Antennae	2014-15
2	Dr.G.Ravi kumar Scientist G,Assoc.Director NSTL,Visakhapatnam	Acuators Advaced Controls Systems	2014-15
3	Sri S Surya Shankar DGM(telecom),BSNL	Telecom Communication Networks	2014-15
4	Sri.Y.S.Chowdary Hon'ble Minister of State for Ministry of Science & Technology & Earth Sciences	Scientific And Engineering Research Programs And Grants	2014-15

5	N.Prasad CGM APEPDCL	Quality assessments	2013-14
6	P.Trimurthulu,Sc.F ,NSTL,Visakhapatnam	Advance control systems	2013-14
7	Sri Viswanadham Head, Mahindra Satyam	A seminar on IT industry and its requirements.	2013-14
8	Sri Satya Topali, Mahindra Satyam,Hyderabad	An interaction session on career in IT and how to achieve it.	2013-14
9	Dr R V S Subhramanyam, NSTL, Visakhapatnam	Role of young engineers in research and development.	2013-14
10	T.S.Murali General manager (Operations and Corp. Planning) B.H.P.V. Visakhapatnam.	Product designs and innovations	2012-13
11	L.S.Rao VP(operation) Anarak , Visakhapatnam	Challenges in product based organizations.	2012-13
12	T.Hanuman Choudary. Member State Government Advisory Committee	Human Resource management ,and Entrepreneurship	2012-13

**3.7.5 How many of the linkages/collaborations have actually resulted in Formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated**

- a) **Curriculum development/enrichment** –NA-
- b) **Internship / On-the-job training:** Internship enhances the industry exposure. It results in increasing overall placements.
- c) **Summer Placement:** 60% of students attending summer training during summer vacation (BSNL, Steel Plant).
- d) **Faculty exchange and professional development:** Faculty attending workshop and conferences organized by industry through professional society like CSI and IEEE.
- e) **Research:** The institute organizing regularly organizes workshops /Seminars or guest lecturers to promote research activities.
- f) **Consultancy:** -NO-
- g) **Extension** -No-
- h) **Publication:** Linkages with academia from institutions of repute is certainly enriching, motivating faculty members and students in producing papers and presenting or publishing them in conferences/journals.
- i) **Student Placement:**

2015-16	Total intake	Qualified	ON campus	OFF campus	Total selection	PER %
ECE	118	98	40	10	50	51.02
CSE	59	45	15	05	20	44.44
EEE	59	35	15	03	18	51.42
MECH	178	116	30	06	36	31.03
TOTAL	414	294	100	24	124	42.17

2014-15	Total	Qualified	ON	OFF	Total	PER
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	<b>intake</b>		<b>campus</b>	<b>campus</b>	<b>selection</b>	<b>%</b>
ECE	138	107	36	16	52	48.59
CSE	96	78	47	05	52	66.66
EEE	62	41	15	07	22	53.65
MECH	70	63	31	06	37	58.73
<b>TOTAL</b>	<b>366</b>	<b>289</b>	<b>129</b>	<b>34</b>	<b>163</b>	<b>56.40</b>

<b>2013-14</b>	<b>Total intake</b>	<b>Qualified</b>	<b>ON campus</b>	<b>OFF campus</b>	<b>Total selection</b>	<b>PER %</b>
ECE	135	103	44	05	49	47.5
CSE	98	84	33	8	41	48.81
EEE	68	43	16	4	20	46.51
MECH	70	61	21	6	27	44.26
<b>Total</b>	<b>371</b>	<b>291</b>	<b>114</b>	<b>23</b>	<b>137</b>	<b>47.08</b>

<b>2012-13</b>	<b>Total intake</b>	<b>Qualified</b>	<b>ON campus</b>	<b>OFF campus</b>	<b>Total selection</b>	<b>PER %</b>
ECE	127	97	45	16	61	62.89
CSE	104	77	25	13	38	49.35
EEE	66	50	25	5	30	60.00
MECH	66	43	18	12	30	69.77
<b>TOTAL</b>	<b>365</b>	<b>277</b>	<b>121</b>	<b>48</b>	<b>169</b>	<b>61.01</b>

<b>2011-12</b>	<b>Total intake</b>	<b>Qualified</b>	<b>ON campus</b>	<b>OFF campus</b>	<b>Total selection</b>	<b>PER %</b>
ECE	143	97	49	18	67	69.07
CSE	124	85	28	17	45	52.94
EEE	66	48	18	10	28	58.33
MECH	66	56	25	10	35	62.50

TOTAL	383	286	116	53	169	59.09
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2010-11	Total intake	Qualified	ON campus	OFF campus	Total selection	PER %
ECE	143	97	49	18	67	69.07
CSE	104	100	45	18	63	63.00
EEE	72	50	25	12	37	74.00
MECH	70	59	21	10	31	52.54
TOTAL	389	306	140	58	198	64.71

- j) **Twinning programmes -No-**
- k) **Introduction of new courses -No-**
- l) **Student exchange -No-**
- m) **Any other**

**3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.**

- The institute has a Research Committee. The functions and outcome impact are presented in Criterion-III, Item No.3.1.2.
- The college provides budget for in-house R & D. Institution provides seed money to undertake industry oriented student projects and in-house R&D projects by faculty.
- Workload will be reduced to senior faculty who involve in R&D.
- Faculty will be sponsored regularly to attend important workshops and seminars arranged by leading research organizations.

**The details are presented in Criterion-III, Item No.3.2.7.**

- Faculty members publish papers in reputed journals and the college sponsors them to present papers at Conferences / Symposiums at National and International level. The details are presented in Criterion-III, Item No.3.4.3.
- Motivational incentives in the form of cash awards along with recommendation certificates are provided to the faculty who publish papers in reputed journals.

- College provides TA/DA to faculty for making field visits and Industrial visits to meet the consultancy demands.

**Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.**

Institute is an institutional member in various professional bodies, which contribute their services for promoting Research

- Indian Society for Technical Education (ISTE)
- Computer society of India (CSI)
- IEEE
- IETE



## **CRITERIA IV: Infrastructure and Learning Process**

### **4.1 Physical Facilities**

#### **4.1.1 What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning**

The College stands for giving top priority for creating and providing various infrastructure facilities for producing quality technocrats by motivating the students towards effective teaching and learning, curricular, co-curricular and extracurricular activities. The Management is extending their complete support for creation and up gradation of infrastructure of the college by allocating adequate funds while preparing the annual budget. The college was established in a sprawling campus of 32.07 acres with the following facilities:

- Class rooms: Spacious and well ventilated classrooms with fans, lights, Dias, green board and furniture.
- E-Classrooms: Classrooms with LCD projector, Screen and internet connectivity.
- Seminar halls: Good number of seminar halls is available for conducting seminars/workshops.
- Tutorial Rooms: Adequate number of tutorial rooms to conduct remedial/makeup classes.
- Laboratories: Sufficient number of laboratories with sophisticated equipment and latest facilities to impart practical training. Learning materials viz., charts, Write-ups, Models and Virtual labs are arranged to enhance understanding.
- Internet: Dedicated/Leased line connectivity of 20 mbps is arranged and is available in campus wide LAN. In addition to that, NMES connectivity also available. Routers are established at various points to make the campus Wi-Fi enabled.

In addition to these, faculty rooms, hostels, amenities, parking facilities, sports facilities are created in the campus.

The following procedure is adopted to purchase of items in the college:

- HODs collect the requirement details from various in charges and prepare budget estimation.
- HODs prepare comparative statements by inviting quotations from the suppliers.
- College level purchase committee consisting of Governing body representative, Principal, and HOD will finalize the indent and the Principal shall place the purchase order.
- The payments will be made after the successful supply/installation of the items. Installation certificates will be taken from the concerned before making the payment.

#### **4.1.2 Detail the facilities available for**

**a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

**Infrastructural facilities:**

S. No	Block Description	Facilities Accommodated
1	Administrative Block	Administration wing, Departments of ECE, EEE, CSE and Library.
2	Decennial Block	Departments of Humanities and Management, Class rooms of first year for all branches.
3	Boys hostel	No. of rooms – 30
4	Girls hostel	No. of rooms – 15
5	Residential Quarters	No. of blocks – 10
6	Canteen	Separate dining halls for staff and students
7	Workshops	No. of blocks - 07
8	Sports Ground	Separate courts for different sports
9	Parking Area	Separate parking for cycles, motor bikes, cars and buses

**Curricular Activities:**

S. No	Details of the facilities	Number of rooms
1	Class Rooms	40
2	Tutorial Rooms	07
3	Drawing Halls	03
4	Seminar Halls	01
5	Computer labs	05
6	Laboratory Rooms /Workshops	52
7	JKC lab	01
8	Language lab	01

**ADMINISTRATIVE BLOCK**

### **Classrooms:**

- The institution has sufficient number of well-furnished, well ventilated, spacious classrooms for conducting theory classes.
- All the departments have classrooms with close proximity in order to have better access for the students.
- Classrooms are spacious and designed for proper ventilation and lighting with good acoustics.
- Each department is also provided with tutorial classrooms.

### **CLASS ROOM**



### **E-Classrooms:**

- Each department in the college is provided with a E-Classroom to facilitate, engaged and active learning.
- Classrooms have seating capacity of 60 and provided with LCD projector, Wi-Fi and LAN enabled internet connectivity, public addressing etc.

### **Seminar Halls:**

- The Institution has separate seminar hall to conduct seminars, workshops and symposiums for students and faculty.
- The seminar hall has a seating capacity of 350 and is fully air conditioned. It is equipped with LCD projector, LCD screen, white board and public addressing system.
- The students are regularly promoted for active involvement in paper presentations, group discussions.

## **SEMINAR HALL**



### **Laboratories:**

- All laboratories are well equipped, and well maintained for carrying out curriculum-oriented lab experiments.
- All laboratories are also equipped to carry out possible research activities.

## **COMPUTER LABS**

### **C – LAB**



### **JAVA & UNIX LAB**



**ELECTRICAL LAB**



**ECE LAB**



**MACHINES LAB**



## **WORKSHOP/CHEMISTRY LABS**

### **WORKSHOP**



### **CHEMISTRY LAB**



### **Specialized facilities and equipment for teaching, learning and research:**

- The college has exclusive English communication skills lab with 60 Core 2 Duo systems and licensed software.
- Each department has their individual library with good number of books.
- The college is having a digital library with internet which is being effectively used by the students for their research activity.
- The college has provided web-based materials of NPTEL video lectures by IIT teachers for the use to both students and faculty.
- E-learning facility is provided which covers a wide set of applications and processes, including computer based learning and virtual classroom learning.
- For self learning, reference books for all the subjects, material for competitive exams are available in the central library.
- The college has established “Jawahar Knowledge Centre” in collaboration with IEG, Govt. of Andhra Pradesh to train the students to improve their employability skills.

### **Co-Curricular Activities:**

- To improve Communication skills, college is conducting various activities viz., Essay writing, debate, Group discussion for the students.
- Conducting campus recruitment training for pre final and final year students.
- National level Technical meets/Seminars are conducted to expose the students to national level competition.
- Industrial visits are arranged to keep the students abreast of latest technological advancements in their field of specialization.
- Workshops on advanced topics are arranged to make them aware of recent trends.
- Expert Talks by Technocrats are arranged for motivating students.

### **LANGUAGE LAB**



**b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

**Outdoor Games:** A spacious play ground is provided for outdoor games like Cricket, Athletics, Kabaddi, Volley ball, Basket ball, Kho - Kho, and Throw ball.

**Indoor Games:** A separate indoor games facility is provided for Table tennis, Caroms, and Chess.

### **Sports (outdoor and indoor games) & Gymnasium**

S. No	Sports Facilities	Number
1	Volley ball courts	2
2	Throwball court	1
3	Tenni-koit courts	2
4	Cricket Net Practice pitch	1
5	Gymnasium	1
6	Table Tennis	2
7	Shuttle / Badminton courts (Boys-1, Girls-1)	2
8	Carrom boards	5
9	Basket-Ball court(boys)	1
10	Kabaddi court	1

### **VOLLEY BALL COURT**



### **INDOOR GAMES**

### **TABLE TENNIS**





### **CARROMS**



**NSS:** College has NSS unit that organizes the different programs like Awareness programs, blood donation camps, Medical camps, Trauma care and adopted the Tamaram village near to our college and conduct various programs.

**Cultural Activities:** On every occasion like College Formation day, all national days, cultural programs will be conduct for all the students. The students can also participate in various events conducted by various colleges.

**Public Speaking:** Personality development programs are conducted by the college which contains various activities like public speaking for enhancing their communication skills.

**Communications Labs:** A separate communications lab is provided for all the students to improve the communication skills.

**Health Center:**

- In addition to the above activities, College has a Health Center for First Aid medication for both students and staff.
- A dedicated Medical Officer Attends the regular checkups and in emergency also.
- A two bed dispensary is available in the campus for attending to normal fever or any infections.
- Various facilities:
  - Stretcher
  - I/V Facility
  - BP measuring device
  - Blood sugar indicator
  - Oxygen Cylinder
  - Thermometer
  - Wheel Chair
- Stock Medicines available for treating in campus
  - Fever
  - Diarrhea
  - Eye infections
  - Skin burns
  - First aid kit for wounds
  - Pain killer tablets and ointments
- Contract Agreement with Local Laboratory on payment basis by Management
  - Pathological tests
  - Radiology
  - E C G
  - Saline transfusion
- First aid units are placed in Laboratories, Sports room, Buses and other required places to meet such type of incidents
- Makavarapalem Mandal Head Quarters has a fully fledged Public Health Center (PHC) in the proximity of campus and is about 3 km from the college. In emergency cases the facility is being used by students and staff.
- A well equipped 30 bedded Trust Hospital run by Emmanuel Society is located at Kondala Agraharam is also available for students about 5km from the institute.
- A four wheeler is made available in the campus round the clock along with driver to meet emergency medical responsibilities.
- 108 services are also available for emergency services which can provide an Ambulance in not more than 5 minutes on receipt of the call.
- Counseling sessions are arranged by inviting reputed counselors from Ramakrishna Mission, Brahma Kumaris and other free lancers for the weak, disappointed and depressed students which were identified by the Class In charges.

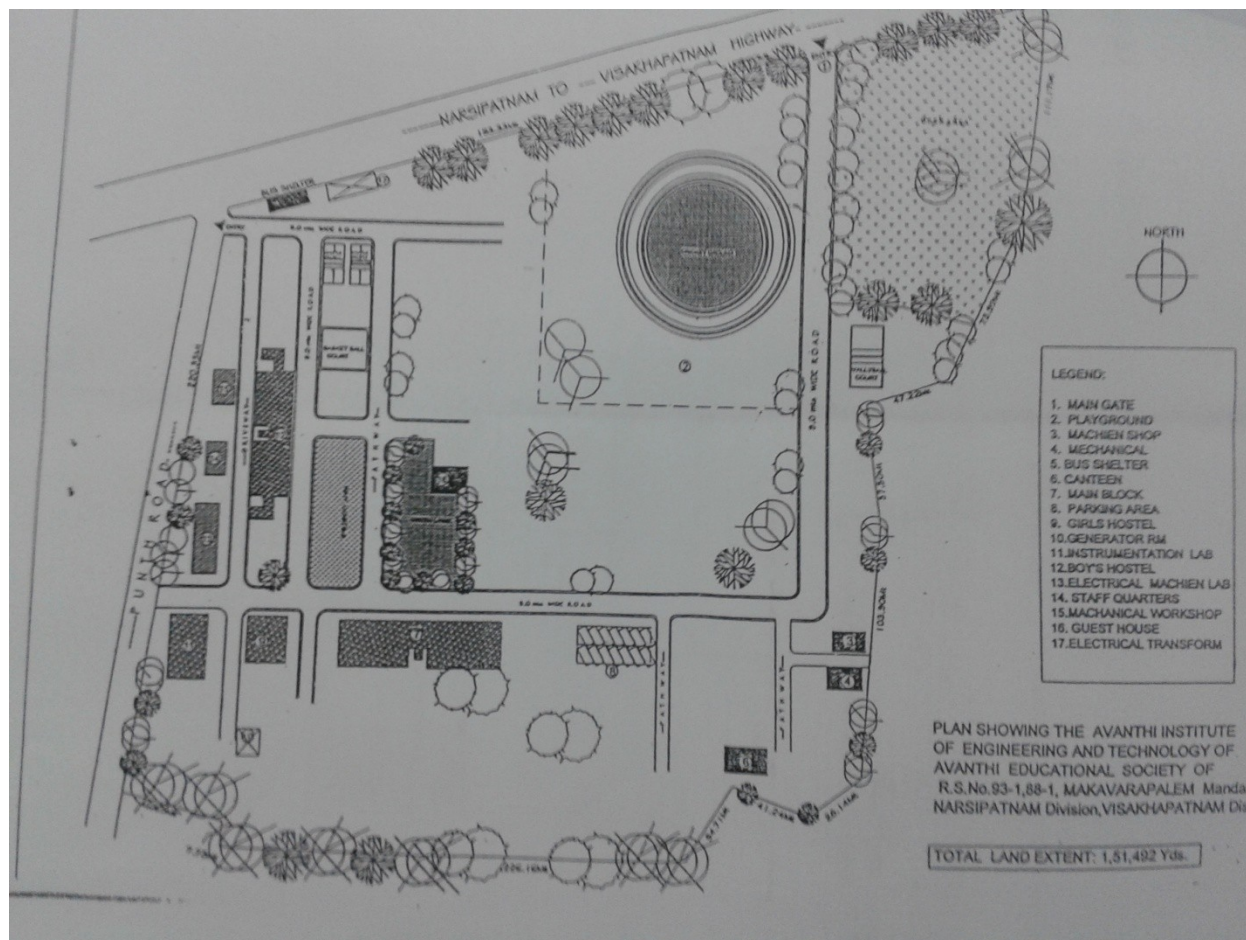
**4.1.3 how does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).**

- The infrastructure developments according to the demand and needs as per changes in academic curriculum, incorporating advanced e-learning facilities, curricular, co-curricular, extra-curricular activities etc. are being discussed and resolved in the general body meeting which comprises of management, Principals, HODs, senior faculty, university and board nominees and take necessary steps regarding budget allocation, implementation and proper utilization.
- Since its inception in 1999, the college has been keeping pace with the changing needs and requirements to meet its academic growth.
- To keep pace with the needs and requirements, additional infrastructure is being added from time to time.
- The Available infrastructure is in line with the Academic growth.
- It is optimally utilized.
- The infrastructural development and the expenditure incurred are provided in the following table for the last four years.

S. No.	FY	Constructional Activity	Administrative Expenses(including salaries)	Laboratories and other maintenance expenditures	Vehicle Maintenance	Sports Expenses
1.	2015-16	35,62,685.00	45,103,825.00	463,785.00	255,335.00	513,830.00
2.	2014-15	1,816,830.00	77,168,796.49	854,815.00	498,839.00	101,8330.00
3.	2013-14	1,781,146.00	63,148,475.32	868600.00	353,570.00	95,2140.00

4.	2012-13	516,244.20	62,987,249.11	756725.00	475840.00	97,4460.00
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**Master Plan of the Institution:**



**The details of the physical infrastructure are as follows:**

S. No	Block Description	Constructed Area (Sq Mts)
1	Administrative Block	5682
2	Decennial Block	3122
3	Boys hostel	1500
4	Girls hostel	750
5	Canteen	96

#### 4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of the differently-able students?

- The persons authorized by them are permitted to borrow books from the library.
- They are also provided support in laboratory and workshops.
- Ramps are provided at the entrance of the buildings.
- Handicapped toilets.
- Wheel chair.
- If required classrooms will be provided in the ground floor for them during regular classes/Examinations.

#### 4.1.5 Give details on the residential facility and various provisions available within them:

##### Hostels:

- Separate Hostel blocks are provided for male and female candidates. Hostels are equipped with recreational provisions.
- Common rooms have T.V, Indoor games facilities and magazine facilities. Computer access with Internet and Wi-Fi facilities are provided.
- Emergency medical assistance is given to the both students and staff.

##### Security:

Round the clock, security is provided in the hostels as well as at all the entry points of the Institution.

##### Hygiene:

Drinking water with U/V protection and R/O processed is provided in the hostels, staff quarters and in the campus.

##### Staff Quarters:

Residential facilities are provided to the staff with free electricity and water.

##### Hostel details:

S. No	Hostel	Boys	Girls
1	No. of rooms	30	15
2	Staff rooms	01	01
3	Warden rooms	01	01
4	TV rooms	01	01
5	Gym rooms / Indoor Games	01	01

**6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**

- In addition to the above activities, College has a Health Center for First Aid medication for both students and staff.
- A dedicated Medical Officer Attends the regular checkups and in emergency also.
- A two bed dispensary is available in the campus for attending to normal fever or any infections.
- Various facilities:
  - Stretcher
  - I/V Facility
  - BP measuring device
  - Blood sugar indicator
  - Oxygen Cylinder
  - Thermometer
  - Wheel Chair
- Stock Medicines available for treating in campus
  - Fever
  - Diarrhea
  - Eye infections
  - Skin burns
  - First aid kit for wounds
  - Pain killer tablets and ointments
- Contract Agreement with Local Laboratory on payment basis by Management
  - Pathological tests
  - Radiology
  - E C G
  - Saline transfusion
- First aid units are placed in Laboratories, Sports room, Buses and other required places to meet such type of incidents
- Makavarapalem Mandal Head Quarters has a fully fledged Public Health Center (PHC) in the proximity of campus and is about 3 km from the college. In emergency cases the facility is being used by students and staff.
- A well equipped 30 bedded Trust Hospital run by Emmanuel Society is located at Kondala Agraharam is also available for students about 5km from the institute.
- A four wheeler is made available in the campus round the clock along with driver to meet emergency medical responsibilities.
- 108 services are also available for emergency services which can provide an Ambulance in not more than 5 minutes on receipt of the call.

**7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance,**

**Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

**IQAC:** IQAC keeps a watch on the regular academic and administrative activity of the institution and strives for the development of system always. It is located at Decennial Block N: 28. It regularly assesses the quality of implementation of regular academic activities and procurement of new equipment.

**Grievance Reprisal unit:** This consists of one senior member from each department with few female faculty members and some student representatives to redress the grievance raised. It is located at Administrative Block A: 17.

**Women's Cell:** This consists of female faculty member and student representatives from girls and boys to monitor the gender issues concerned. It is located at Decennial Block Ladies staff room.

**Placement Unit:** Placement cell organizes continuously the training activities of the students such that they can improve their employment prospects and guide them to get better placement. It is located at Decennial Block.

**Health Centre:** A Doctor is employed to look after the health needs of the students and staff. It is located at Administrative Block.

**Canteen:** Canteen is maintained to cater the student and staff requirements with a class of hygiene. It is located at Administrative Block.

**Recreational spaces:** Facilities are available to conduct recreational activities with good audio and video support.

**Safe drinking water facility:** Drinking water is supplied with U/V and R/o treated to institution blocks, hostels, quarters and canteen.

## **4.2 Library as a Learning Resource:**

**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?**

Yes, the library has an advisory committee consisting of senior faculty members and Librarian as coordinator of the committee.

Details of Library Committee Members:

S. No	NAME	Department	Designation
1.	Dr. C. Mohan Rao	Principal	Chairman
2.	M.V.Ramanamurty	Professor,EEE	Member
3.	N.V.Ashok kumar	Assoc. prof,CSE	Member
4.	D.Lakshminarayana	Assoc.Prof,ECE	Member
5.	B.Ramesh	Assoc.Prof,MEC H	Member
6.	K.Nookinaidu	Asst.Prof,MBA	Member
7.	S.Ramasatyanarayana	Assoc.Prof,S&H	Member
8.	CH.Peddinaidu	Librarian	Co-ordinator

- The library committee monitors the regular changes in academic curriculum and latest requirements of the new books with latest editions.
- The library advisory committee advises on the purchase of Books, Journals, Magazines, News papers, etc.,
- The committee has taken initiatives for the library up gradation, subscription for E-journals, application web OPAC.
- Development of Digital content Management for institutional Repositions, Barcode of Books, and Subscription of E-Books.
- Providing printing and photocopying facilities to the students with concession rate.
- Facility to download the E-documents from the various sources and E-documents delivery to the information seekers.

#### 4.2.2 Provide details of the following:

- \* **Total area of the library(in sq. Mts)**
- \* **Total seating capacity**
- \* **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- \* **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

S. No	Particulars	Details
1.	Total area of the library (in Sq. Mts.)	1100 Sq.mts



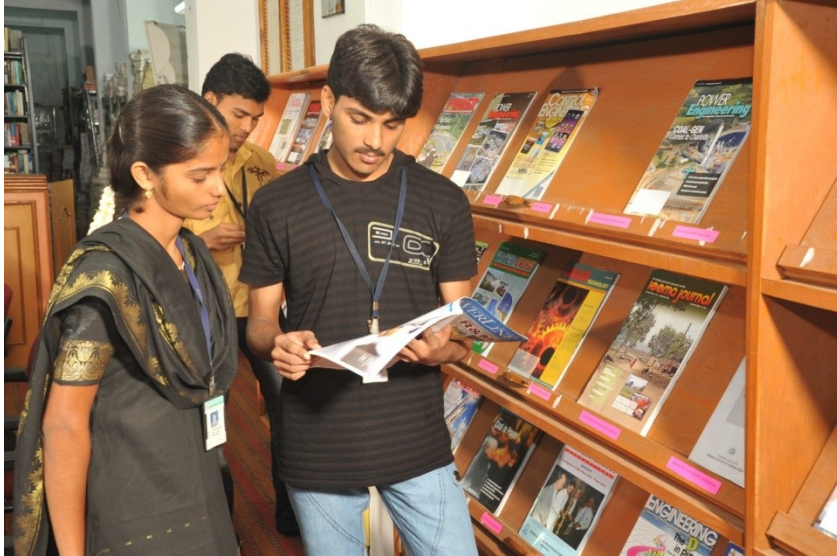
2.	Total seating capacity	190
3.	Working hours (on working days, on holidays, before examination days, during vacation)	8 AM to 8 PM
4.	Working hours (during vacation)	9 AM to 2 PM
5.	Holidays	Not working

**Layout plan- Central library – 2<sup>nd</sup> floor:-**

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources).

- Separate space for reading and e-learning.
- Magazine section.
- Back volumes.
- Xerox corner
- Issue/Return counter







**4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

After receiving the procurement requirement from the advisory committee of the library for books, magazines and e-journals, the librarian will place the indent and procure the material.

Library Holidays	Year-1		Year-2		Year-3		Year-4	
	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text Books	1072	6,34,380	1,175	2,35,205	1052	4,72,634	1163	5,31,980
Reference Books	352	1,52,210	704	1,41,122	755	2,52,450	650	2,64,382
Journals/Periodicals	86	3,32,600	53	3,85,500	45	3,92,500	39	3,62,500
E-resources	1	10,500	1	10,500	1	10,500	1	10,500
Any other specify	-	-	-	-	-	-	-	-

- The library has the network membership of DELNET.
- The library is continually upgraded by procuring new journals and titles as per the latest requirements to keep up the present pace of the technology.
- Previous volumes of the journals are preserved for the benefit of the users.
- Easy access is made to all the users in the library.

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

- \* OPAC – The OPAC is available in the library to provide the bibliographical information to the users.
- \* Electronic Resource management package for E-journals.
- \* IEL online (IEEE/IEE)
- \* Science Directs (Electrical/Electronic Engg/Computer Science/information science system Engg)
- \* E-library
- \* DELNET (Developing Library Network)
- \* British Council online Resource
- \* Library website – It is worked with the college website with central library option.
- \* In-house / remote access to e-publications – In house access to e-journals is given to users through the IP based facilities inside campus. The users can access anywhere inside the college premises through Wi-Fi system.
- \* Library automation – the operation of all types of library activities are completely automated by the software.
- \* Total number of computers for public access – There are 10 numbers of computers in the digital library for public access and two computers of OPAC services.
- \* Total number of Printers for public access – 01
- \* Internet bandwidth/speed – 20MBPS form BSNL
- \* Institutional Repository – Hand notes/ Lecture notes/Student projects.
- \* Content management system for e-learning
- \* Participation in Resource sharing networks / consortia – Member of the DELNET, INDEST and BC
- \* NPTEL lessons available which can be accessed through intranet
- \* Yes, the institution has a membership of DELNET facility to view the index of various books of international publications.

#### 4.2.5 Provide details on the following items:

S. No	Particulars	Numbers
1.	Average number of walk-ins	350
2.	Average number of books issued/Returned	150
3.	Ratio of library books to students enrolled	14:1
4.	Average number of books added during last three years	2100
5	Average number of login to OPAC	10
6.	Average number of login to e-resources	15-25
7.	Average number of e-resources downloaded/printed	15
8.	Number of information literacy trainings organized	Nil
9.	“weeding out” of books and other materials	Under process old/out dated/damaged books are

		weeded out periodically with proposal from Library committee and approval by the Principal.
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#### 4.2.6 The details of the specialized services provided by the library

S. No	Particulars	Available
1.	Manuscripts	Nil
2.	Reference	Yes
3.	Reprography	Yes
4.	ILL (Inter Library Loan Service)	No
5.	Information deployment and notification	Yes
6.	Download the study material	Yes
7.	Printouts	Yes
8.	In-house/remote access to e-resources	Yes
9.	User orientation and Awareness	Yes
10.	Assistance in searching Databases	Yes
11.	INFLIBNET/IUC facilities	No

#### 4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

During the library hours, the library staff renders the following activities to the students and staff.

- Locating the books and journals and issuing them.
- Maintaining and updating the catalogues.
- Duplicating facility is provided at minimum charges.
- All the racks are provided with placard display for easy identification.
- Issue and return back registers are maintained.
- Library stock registers are maintained.
- Copies of the projects done by students of B.Tech/M.Tech/MCA/MBA.
- Important journals and media notifications are displayed.
- All the previous question papers are preserved and prints will be made available.

#### 4.2.8 What are the special facilities offered by the library to the visually/ physically challenged persons? Give details.

Although the general norm for borrowing / returning of books is that the books should be borrowed/ returned only by the concerned person, the disabled persons provided library facilities to their delegates.

**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)**

- Yes, important suggestions given in the student's feedback are discussed with the library staff and are facilitated as per the feasibility.
- A complaint box is provided at the library, in which the students/faculty may drop complaints or suggestions.
- Any such information received is collected by the librarian immediately and informed to the Principal.
- If necessary the library advisory committee is informed about it and suitable action recommended is implemented.
- Feedback register is maintained in the library to get instantaneous response of the users.
- Feedback from students is collected periodically and analyzed. The results of the analysis are discussed in the Library committee meetings and necessary steps are proposed for improvement.



**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**TAMARAM (VILL), MAKAVARAPALEM (M.O), VISAKHAPATNAM (DIST).**

**KNOWLEDGE RESOURCE CENTER**  
**STUDENT FEED BACK FORM**

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**Year & Semester:**

**Branch:**

**Date:**

**Please mark '1' for Excellent, '2' for Good, '3' for Satisfactory and '4' for poor**

<b>S. No</b>	<b>ITEM FOR GRADING</b>	<b>GRAD E</b>
1.	Librarian	
2.	Library Staff	
3.	Books Availability	
4.	Reference / Prescribed Books	
5.	GATE Material	
6.	General knowledge / Aptitude Books	
7.	Journals and Magazines	
8.	Question papers	
9.	Seating Arrangement	
10.	Maintanance	

**Suggestions if any:**

**Library Committee Review:**

**4.3 IT Infrastructure**

**4.3.1. Give details on the computing facility available (hardware and software) at the institution.**

**Details of Computing Facilities**

S. No	Configuration Details	No. of Systems
1	Intel P-IV Intel mother board,160GB HDD,2GB RAM, Keyboard, Mouse 10 Mbps Ethernet Card,14.5” LCD Screen	120
2	Intel P-IV, Intel Mother Board,1GB RAM,160GB HDD,Keyboard,Mouse,10 Mbps Ethernet Card , 18.5” LCD	120
3	Dual Core Processor,2GB RAM,160GB HDD,Keyboard,Mouse,Ethernet,18.5” LCD	90
4	Dual Core Processor,1GB RAM,160 GB HDD,Keyboard,Mouse,Ethernet,18.5”LCD	120
5	DualCoreProcessor,1GB RAM,160GB HDD,Keyboard,Mouse,Ethernet,14.5”LCD	60
6	Quard Core Xeon Processor,4GB RAM,250GB HDD,18.5” LCD	06
	TOTAL	536

**Details of Location of Systems**

S.No	Location	Name of the Laboratory	No. Of .Computers
1	Administrative Block-Ground Floor	ECAD/DSP LAB	64
2	Decennial Block-Ground Floor	ENGLISH LAB	63
3	Administrative Block-First Floor	CSE LAB I & LAB II	120
4	Administrative Block-Second Floor	EEE SIMULATION LAB	45
5	Administrative Block-Third Floor	PROJECT LAB	46
6	Decennial Block-Second Floor	C LAB	100
7	Mechanical Block	CAD/CAM LAB	82
8	HOD Rooms	--	06
9	Examination Section	--	03
10	Office	--	06



11	Principal Room	--	01
TOTAL			536

Computer-student ratio: For UG courses having the ratio of 1:6

For PG courses having the ratio of 1:4

Stand alone facility: NO

LAN Facility: Available to all systems in laboratories

Licensed software Details

- **System software**

S. No	SOFTWARE NAME	License d	Open source
1	Microsoft Windows NT Workstation	yes	
2	Fedora 5.5,10,11 versions	yes	
3	Microsoft Visual studio 6.0-Enterprise edition	yes	
4	Microsoft Visual Studio.Net 2003-Academic	yes	
5	Oracle		yes
6	Microsoft office 2007 Professional	yes	
7	Visual paradigm	yes	
8	Win runner Software suite		yes
9	Symantec Endpoint protection 13.0		yes
10	DELNET	yes	
11	MATLAB	yes	

- **Free ware software**
- JDK 1.6
- JAKARTA TOMCAT
- STAR UML
- PHP
- NOTEPAD++
- MOZILLA FIRE FOX
- WINRAR
- ACROBAT READER
- CODE COMPOSER STUDIO

**Number of nodes/ computers with Internet facility: 536**

College having Dedicated 20 Mbps 1:1 Leased line internet Connectivity. Internet can be accessed from all the systems. We are having internet lab working during college timings and available for hostel students 12 hours and 7 days a week.

- Wi-Fi Facility: Service Provider –Available in the campus through the Routers placed at various points
- All computer labs have been provided with UPS facility



#### **4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

The college campus is provided with 20 Mbps internet connectivity through BSNL Leased Line .Internet can be accessed at department HOD Room, Faculty Room, Computer Laboratories and Computer Centre. Internet made available over campus wide LAN, So that it can be accessed anywhere in the campus through wired/wireless Network.

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

Annual Budget is allocated every year for procurement of IT Infrastructure and associated facilities to keep the pace with the latest developments in the technology and requirements as per industrial needs

- old computers are replaced with new ones
- system configurations are upgraded based on the industrial needs and latest developments
- system administrator is monitoring regularly

- complaint register is provided with computer lab
- College is planning to increase the bandwidth and range of Wi-Fi facility.

**4.3.4 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)**

S. No	Provision	Annual Budget Expenditure (Lakhs)			
		2015-16	2014-2015	2013-2014	2012-2013
1	Procurement	1513800	1248000	1256000	1187600
2	Up gradation	527450	427250	374620	347580
3	Development & Maintenance	336620	285700	256450	236575

**4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

Staff and students are using ICT Resources in computer aided teaching and learning

- All the departments are provided with computers with internet for enriching their teaching abilities
- Faculty are regularly using NPTEL Videos for better understanding of the students
- E-class rooms are created by providing systems and LCD projectors for enhancing the learning abilities
- Digital library facility is provided in the library with systems and internet
- College also has seminar halls equipped with projectors and are available for the benefit of students.

**4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

The institution is encouraging faculty and students for learning and teaching through ICT.

- Institution is conducting training sessions for the faculty on the use of ICT. Faculty are also deployed to other institutions to seminars in computer aided teaching methods
- Class rooms are equipped with computers and LCD projectors for imparting better learning
- Computer facility with internet is made available to students to enhance their learning abilities. The Computer Personnel are always available for any need based assistance in the use of ICT

**4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

NO

**4.4 Maintenance of Infrastructure**

**4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last 4 Years) ?**

Item	Budget in 2015-16 in lakhs	Expenses in 2015-16 in lakhs	Budget in 2014-15 in lakhs	Expenses in 2014-15 in lakhs	Budget in 2013-14 in lakhs	Expenses in 2013-14 in lakhs
Infrastructure built-up	6255000	6375500	5300000	4875600	5000000	4548500
Library	1540000	1475000	1250000	1086530	1030000	975000
Laboratory equipment	1735000	1646000	1520000	1456780	1450000	1336000
Furniture fixtures	2250000	1645800	2000000	1785800	1875000	1773500
Building maintenance	465000	328500	460000	423485	350000	335000
Electricity Charges	2160000	1937693	1965000	1856325	1828000	1728000
Hostel maintenance	425000	504370	350000	336750	282000	256000
<b>TOTAL</b>	<b>14830000</b>	<b>13912863</b>	<b>12845000</b>	<b>11821270</b>	<b>11815000</b>	<b>10952000</b>

**4.4.2 What is the institutional mechanism for maintenance and upkeep of the infrastructure, facilities and equipment of the college?**

**Laboratory maintenance Activities:**

All the Laboratories have maintenance registers maintained by the lab attendants. One maintenance slot per week was provided for preventive maintenance by internal staff. Maintenance is carried out by external agencies on need basis/by annually.

**a) Building Hygiene committee:**

A committee is constituted with a senior faculty as In-charge to monitor the maintenance of academic infrastructure and facilities.

**Members of the Building Maintenance committee:**

S. No	Name	Designation	Department
1	M.V.Ramana Murthy	Professor, Convenor	EEE
2	K.Santosh Kumar	Asst. Professor	ECE
3	A N S Suryaprakash	Asst. Professor	MECH
4	S.Danial Raju	AO	Office
5	Markandeyulu	Supervisor	Office

**Functions of the committee**

- Proper upkeep and maintenance of the buildings
- Maintenance of the lawns and surroundings
- Carrying out minor repairs of furniture, electrical and sanitary fittings
- Maintenance of the roads, water tanks and other services in the compound
- Maintaining security ensuring the safety requirements in the campus

**b) Transport maintenance committee:**

A committee has been constituted for the day to day maintenance of the college vehicles

**Members of the Transport Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	V.S.Prashanth	Assoc. Professor, Coordinator	MBA
2	B.N.Srinivas Rao	Asst. Professor	ECE
3	P.Anil Kumar	Asst. Professor	EEE
4	M.Jagannadha Rao	Accountant	Office
5	Markendyulu	supervisor	office

**Functions of the committee**

- Maintenance of the college buses
- Obtaining necessary clearance certificates, insurance, permits etc. for the college vehicles from RTA
- Routine checking of the condition of the vehicles.
- Appointment of well trained and experienced drivers.
- Ensuring safety requirements like operation of Speed limiters, fire extinguishers first aid etc.

**c) Electrical Maintenance Committee**

Maintenance of all equipment related to electrical applications is taken up by this committee.

**Members of the Electrical Maintenance committee:**

S. No	Name of the Staff	Designation	Department
1	P.Rajasekhar Yadav	Asst.Professor,Coordinato r	EEE
2	M.S.Naidu	Asst. Professor	MECH
3	V.V.Giri	Asst.Professor	CSE
4	J.Venkataramana	Lab Assistant	EEE
5	D.Arjuna	Electrician	Office

**Functions of the committee:**

- Maintenance of Diesel Generators
- Maintenance of UPS systems and its batteries
- Maintenance of Building and equipment Earthing measurement of earth resistance at regular intervals, ensuring the proper earth connection for various equipments in the labs and class rooms.

**d) Equipment maintenance Committee:**

A team of members is appointed for the maintenance of various equipments in the college.

**Members of the Equipment Maintenance committee:**

S. No	Name	Designation	Department
1	N.Prakashkumar	Asst. Professor, coordinator	MECH
2	M. V. Ramana Murthy	Professor	EEE
3	B. Nanda Kishore	Asst. Professor	CSE
4	B. Ramesh	Assoc. Professor	MECH
5	S. P. V. Prasad	Lab. Assistant	ECE

**Functions of the committee:**

- Maintenance of the laboratory equipment
- Routine checking of the condition of the equipment
- Appointment of skilled lab technicians
- Ensuring safety requirements

**e) Internet Maintenance Committee**

**Members of the Internet Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	V.Ram Prasad	Asst. Professor, coordinator	CSE
2	D. Rahul	Asst. Professor	ECE
3	Siva Apparao	Asst. Professor	MECH
4	G. Nagarajuna	Lab. Assistant	CSE

**Functions of the committee:**

- Monitoring the internet access
- Fiber checking

**f) Library Maintenance Committee**

**Members of the Library Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	D. Lakshmi Narayana	Asst. professor	ECE
2	M. Kederaswarao	Asst. professor	ECE
3	U. Anjaiah	Asst. professor	EEE
4	K.Vara Prasad	Asst. professor	CSE
5	V.V.Naidu	Asst. professor	MECH
6	CH. Peddi Naidu	Librarian, Coordinator	Library

**Functions of the committee:**

- Maintenance of books and facilities
- Check the availability of sufficient books for all the departments
- Conducts meetings with library coordinators and students
- Implementing the activities suggested by the students

**g) Hostel Maintenance Committee****Members of the Hostel Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	N.Bhavanishankar	Warden	MECH
2	K Kumar	Asst professor	ECE
3	J.S.Ramakrishna	Asst professor	EEE
4	M.Jagannadha Rao	Accountant	Office
5	P.Markandeyulu	supervisor	Office

**Functions of the committee:**

- Maintaining safe drinking water.
- Maintenance of sanitation and electricity.
- Maintaining study room, entertainment and gym for the students.
- Maintain discipline in the hostel.

**h) Canteen Maintenance committee****Members of the Canteen Maintenance committee:**

S. No	Name of the Staff	Designation	Department
1	R. Aneel kumar	Asst. Prof	ECE
2	U.Anjaiah	Asst. Prof	EEE
3	P.Sombabu	Asst Prof	H&S
4	A.Pradeep	Asst Prof	MECH

**Functions of the committee:**

- Plan, organize, control, and evaluate needs of the canteen.
- Ensure a healthy and safe environment
- Produce a canteen menu and price list.
- Maintenance of food and water quality.

**i) Fire & Safety Maintenance committee****Members of the Fire & Safety Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	D.K.A.S.Prasad	Assoc.Professor, Coordinator	EEE
2	S.Venkata Ramana	Asst. Prof	ECE
3	V.V Naidu	Asst. Prof	MECH
4	P.Dorababu	Asst. Prof	EEE
5	J.Konda babu	Asst. Prof	H&S

**Functions of the committee:**

- Conducts safety committee inspections
- Educates the staff and students about fire prevention and safety precautions

**j) Water Maintenance committee(Drinking/Running)**

**Members of the Water Maintenance committee:**

S.No	Name of the Staff	Designation	Department
1	P.Sombabu	Asst. Prof	H&S
2	P. Rama Krishna	Asst. Prof	MECH
3	P. Ashok kumar	Asst. Prof	ECE
4	K. Durga Rao	Asst. Prof	EEE

**Functions of the committee**

- Provide safe drinking water to staff & students
- Facilitate water for daily usage (Labs ,Hostels, Toilets)
- Identify & locate the troubles.
- Proper implementation of bathroom waste water

**4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?**

**Maintenance of Labs & Lab Equipments:**

- The equipment in the labs is monitored by the lab technicians who closely observe their functioning & calibration regularly and report failures to the lab in –charge.
- The lab in-charge is responsible for the physical safety, preventive and breakdown maintenance of all lab equipment and the register is maintained for all laboratories. They are also in-charge for suggesting the purchase of new equipment (necessitated by change of syllabus), scrapping obsolete and old equipment in the lab stock and for the replacement of the damaged.
- They ensure that at least 90% of equipment is in condition all the time and is available for use.
- The lab in–charge also monitors the charts and notice boards in their respective labs.



- The computers and electronic devices are maintained and repaired through the funds available under maintenance head of the institute.
- A team of qualified technical staff for maintaining computers and networking facilities is available.

#### Qualified and skilled lab technicians

4. S.NO.	NAME OF THE TECHNICIAN	DEPARTMENT
1	G. Nagarjuna	CSE
2	G. Anil Kumar	CSE
3	M. Santosh Kumar	CSE
4	K.V. Hari Krishna	CSE
5	S.P.Vprasad	ECE
6	P. SriRama Murthy	ECE
7	Ch. Srinivas	ECE
8	J.Venkata Ramana	EEE
9	P.Siva	MECH
10	L.Nageswara Rao	MECH
11	M.CH.Raju	MECH
12	K.Ravi Kumar	MECH
13.	K.Anil kumar	EEE

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**are the major steps taken for location, upkeep and maintenance of sensitive equipment: Details of voltage stabilizers, security measures in electricity, generator facilities, and earthen points, Water purification systems etc.**

**Major steps** An exclusive Electrical maintenance section works for the college with two technicians and one generator operator.

- The laboratory staff keeps a strict vigil regarding the maintenance and upkeep of the scientific instruments. Their repair or replacement upkeep is fully undertaken in their supervision.
- The college electrician and the supporting staff are responsible for the upkeep of electrical equipments and their maintenance.
- The institution has a tie up with the KENT from which the Aqua guard purifiers were brought for the regular and routine check up and upkeep of the purifiers.
- All the laboratories have been properly earthed and the power from the distribution board is through the earth leakage relays. The earth resistance at the earth pits is regularly monitored.
- Also all the electrical installations in the campus are well defined and checked periodically and the same is certified by the concerned authorities i.e.

#### Electricity Details:

Installed Capacity of Transformer	100 KVA
No. of Main Service Points for distribution	01 - HT Service 440 Volts
Installed Capacity of Generators (3)	122.4 KVA ( 82.4+30+10)

### UPS and Capacities

S.No	Location	No. of UPS	Company	Capacity (KVA)	Number of Batteries
1	Decennial block-C lab	1	ZEN POWER	10 KVA	10
2	Admin block-ground floor	1	SHREE TECH	20 KVA	20
3	Admin block-first floor	1	SHREE TECH	20 KVA	20
4	Decennial block-english lab	1	ZEN POWER	10 KVA	10

### List of Earth Points

S. No	Location	Number
1	Block I	4
2	Block II	2
3	Mechanical lab	4
4	Ladies Hostel	2
5	Gents Hostel	2
6	Canteen	2

### Water purification systems

S. No	Location	Number	Capacity (ltr)/hour
1	Administrative Block & Decennial Block	1	500
2	Hostel blocks	1	500

**TRANSFORMER, WATER PURIFY SYSTEM AND GENERATOR**



**TRASPOT FACILITY:**



## CRITERION V: STUDENT SUPPORT AND PROGRESSION

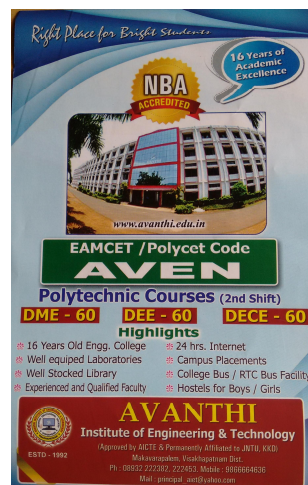
### 5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

YES.

The institution publishes its updated prospectus annually. The prospectus provides all the necessary information the students need to know. The college prospectus provides a complete profile of the college. The handbook is having the academic calendar, quality policy, time-table, vision – Mission, fee details, ambiance, courses offered and their accreditation status, faculty, facilities and innovative practices which the students need to observe during their stay in the college.

Every year the college brings out one issue of Newsletter per semester called “AVANTHI- SRAVANTHI” containing the salient features and it is given to every student and faculty. The website is also updated regularly and the students are informed to browse the same. College is delivering a magazine, annually and each department releases NEWS LETTER bi-yearly.



In-Charge coordinator for college news letter is

**Mr. A.PARAYYA., Asst. Prof, H&BS,**

**Editorial Board Members:**

S.No	Name of the Staff	Designation	Department
1	Dr. C. P. V. N. J. Mohan Rao	Chairman	Principal
2	Mr. Ch.Peddi Naidu	Vice chairman	Librarian
3	Mr.P.Rajasekhar	Chief Editor	CSE
4	Mr.J.Kondabab	Member	H&BS
5	Mr.S. Subramanyam	Member	Mech
6	Mr. B.N.Srinivasarao	Member	ECE
7	Mr. K A S Prasad	Member	EEE
8	Ms.P.Jyoshtna	Member	MBA

**STUDENT CO-ORDINATORS:**

S.NO	Co-ordinator	Department
1	P. Diwakar	ECE
2	B N Susmitha	
3	D.Sanjay	EEE
4	G.Jyothirmai	
5	J.Hari Krishna	CSE
6	B.Sunandha	
7	P.Anil kumar	MECH
8	p. chaithanya prabhu	
9	K.Manikanta	MBA
10	L.Laxman Kumar	

**Commitment and accountability:**

- Committee will look after the Newsletter printing and distributions.
  - The total expenditure of the News letter is funded by the college.
- Hence the college is maintaining the accountability

**5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

At present there are no institutional scholarships, but the management has given some fee exemptions regarding tuition fee, bus fee, hostel fee and other sponsorships are also provided.

**Academic year 2015-16**

S.no	Regd.no	Name	Course	Exemption details	Total amount in Rs
1.	14811A0221	PANCHADA MANIDESH	EEE	10000	Hostel fee
2.	14811A0558	RONGALA BHAGYA LAKSHMI	CSE	10000	Hostel fee
3.	13815A0421	KOTECHERLA VASU	ECE	5000	Hostel fee
4.	14811A0227	SAMBANGI PRABHAVATHI	EEE	5000	Hostel fee
5.	12811A03E1	L Visweswara Rao	MECH	5000	Hostel fee

6.	14811A0421	GUNTA SRILEKHA	ECE	5000	Hostel fee
7.	14815A0417	JONNALAGADDA RAMBABU	ECE	5000	Hostel fee
8.	15811A0455	PALLI JAYALALITHA	ECE	5000	Hostel fee
9.	14811A0361	KUDARA KAMASANKAR	MECH	5000	Hostel fee
10.	14811A0367	MALLA VENKATA CHELLARAO	MECH	5000	Hostel fee
11.	14811A0370	MASAVARAPU NAGARAJU	MECH	5000	Hostel fee
12.	14811A0373	MIDATANA SIVA	MECH	5000	Hostel fee
13.	14811A0385	PAILA SAI RAM	MECH	3000	Hostel fee
14.	14811A0397	POTHULA SIVA NAGA DURGA PRASAD	MECH	5000	Hostel fee
15.	14811A03A1	RAPARTHI AVINASH	MECH	5000	Hostel fee
16.	14811A0227	SAMBANGI PRABHAVATHI	EEE	5000	Hostel fee
17.	14811A0524	GUDIMETLA VENKATA SATHYA SAI LALITHKUMAR	CSE	5000	Hostel fee
18.	14811A0411	DATTI ATCHUTARAO	ECE	5000	Hostel fee
19.	14811A0427	KADUPUTLA MOHANAKRISHNA	ECE	5000	Hostel fee
20.	14811A0435	KORASALA BHASKAR	ECE	5000	Hostel fee
21.	14811A0445	NAUGAPU HARISH	ECE	5000	Hostel fee
22.	14811A0461	SAYYAPUREDDY SUSHMA	ECE	5000	Hostel fee
23.	13811A0428	KACHCHALA PUSHPA	ECE	10000	Hostel fee
24.	13811A0442	PATHIVADA NIRMALA	ECE	10000	Hostel fee
25.	14811A0326	DADI LAKSHMEE PRASAD	MECH	10000	Bus fee
26.	14811A0333	G R K N V S S S GANESH NAIDU ALLA	MECH	1500	Bus fee
27.	14811A0517	DWARAPUDI E MANIKANTA PRABHUVU	CSE	7500	Bus fee
28.	14811A0533	KARRI ANITHA	CSE	3000	Bus fee
29.	14811A0534	KARRI HARIKA	CSE	7500	Bus fee
30.	14811A0536	KORUKONDA SRAVANI	CSE	1500	Bus fee
31.	14811A0469	TUMMALAPALLI SWAMINADH	ECE	5500	Bus fee
32.	13811A0510	MIDATANA SANDHYA DEVI	CSE	4500	Bus fee
33.	12811A03G0	SUMIT KUMAR S DUBEY	MECH	10000	Bus fee
34.	12811A0429	KAMBALA CHANDRA TEJA	ECE	3000	Bus fee
35.	13815A0413	GEESALA VIJAYA TEJA SWAROOPA	ECE	2000	Bus fee
36.	15811A0301	ADDALA JAGADISH VARMA	MECH	2500	Tuition fee
37.	15811A0305	ALLUMALLI HARI BABU	MECH	2500	Tuition fee
38.	15811A0306	AMALAKANTI DURGA MANIKANTHA	MECH	2500	Tuition fee
39.	15811A0308	ANAKAPALLI HARIKRISHNA	MECH	2500	Tuition fee
40.	15811A0310	ANUPOJU RAJESH	MECH	2500	Tuition fee
41.	15811A0314	BERA SAI KALYAN	MECH	2500	Tuition fee
42.	15811A0315	BHAVIRISETTI TEJA	MECH	2500	Tuition fee
43.	15811A0316	BHEEMARAJU KASI	MECH	2500	Tuition fee
44.	15811A0323	CHAPPA MODA MURALI	MECH	2500	Tuition fee
45.	15811A0325	CHINTA EKATMA AKHIL	MECH	2500	Tuition fee

46.	15811A0326	CHITIMOJU MANIKANTA PRAKASH	MECH	2500	Tuition fee
47.	15811A0329	DODDI RAMA GANESH APPARAO	MECH	2500	Tuition fee
48.	15811A0334	ELLAPU RAMALAKSHMAN	MECH	2500	Tuition fee
49.	15811A0340	GIDUTURI MOHANA VENKATA SIVA KUMAR	MECH	2500	Tuition fee
50.	15811A0347	GUDLA FEROSE KUMAR	MECH	2500	Tuition fee
51.	15811A0348	GURRALA MOHAN	MECH	2500	Tuition fee
52.	15811A0355	KALIGATLA SAI CHANDU	MECH	2500	Tuition fee
53.	15811A0356	KALLAPALLI DURGA PAWAN KUMAR	MECH	2500	Tuition fee
54.	15811A0357	KAMIREDDI SAI KRISHNA RAJU	MECH	2500	Tuition fee
55.	15811A0369	KADIMI SAI SUNITHA	MECH	2500	Tuition fee
56.	15811A0370	REDDY POOJA	MECH	2500	Tuition fee
57.	15811A0371	KOTLA RAMASIVA	MECH	2500	Tuition fee
58.	15811A0380	MATHURTI SIVA	MECH	2500	Tuition fee
59.	15811A0385	MUDDA PAVAN SAI	MECH	2500	Tuition fee
60.	15811A0387	MUKALA KARUN RAVI TEJA	MECH	2500	Tuition fee
61.	15811A0388	MUTHYALA MAHESH RAMU	MECH	2500	Tuition fee
62.	15811A0390	NOTLA ANIL KUMAR	MECH	2500	Tuition fee
63.	15811A03B6	RONGALA GIRISH	MECH	2500	Tuition fee
64.	15811A03C4	SINGIDI SAI	MECH	2500	Tuition fee
65.	15811A03D3	UGGINA PRADEEP KUMAR	MECH	2500	Tuition fee
66.	15811A03D4	VARRE APPALA SATYA DURGAPRASAD	MECH	2500	Tuition fee
67.	15811A03D7	VEGI RAMU	MECH	2500	Tuition fee
68.	15811A03D8	VELANKAYALA SRINU	MECH	2500	Tuition fee
69.	15811A0202	BOLEM RAJA	EEE	2500	Tuition fee
70.	15811A0205	CHINTAKAYALA ABHISHEK	EEE	2500	Tuition fee
71.	15811A0212	KUSIREDDI VENKATA MOHAN	EEE	2500	Tuition fee
72.	15811A0216	NARAVA SUNEETHA	EEE	2500	Tuition fee
73.	15811A0218	PADIMI BHARGAVI	EEE	2500	Tuition fee
74.	15811A0221	PONNAPU KISHOR	EEE	2500	Tuition fee
75.	15811A0222	RONGALA INDU	EEE	2500	Tuition fee
76.	15811A0223	RONGALA SWATHI	EEE	2500	Tuition fee
77.	15811A0225	RUTTALA TULASIRAJYALAKSHMI	EEE	2500	Tuition fee
78.	15811A0226	SEERAM RAJA DURGA PRASAD	EEE	2500	Tuition fee
79.	15811A0231	VANDE SAISIREESHA	EEE	2500	Tuition fee
80.	15811A0502	APPILSETTI KARTHIK	CSE	2500	Tuition fee
81.	15811A0505	BANDARU GOWTHAM SAI	CSE	2500	Tuition fee
82.	15811A0507	BANDARU PAVAN KALYAN	CSE	2500	Tuition fee
83.	15811A0514	CHEKKA ROSHINI	CSE	2500	Tuition fee
84.	15811A0516	CHINNI PUSHPA LATHA	CSE	2500	Tuition fee
85.	15811A0518	DENDUKURI MOUNIKA	CSE	2500	Tuition fee



		PADMAPRIYA			
86.	15811A0524	GOMPA PYDITHALLI	CSE	2500	Tuition fee
87.	15811A0527	GUNA HARI KEERTHANA	CSE	2500	Tuition fee
88.	15811A0532	JETTI SAI PRAKASH KUMAR	CSE	2500	Tuition fee
89.	15811A0534	KADIMISSETTY NAVYA	CSE	2500	Tuition fee
90.	15811A0537	KASIMKOTA RAMA KISHORE	CSE	2500	Tuition fee
91.	15811A0539	LEKKALA RAVALI	CSE	2500	Tuition fee
92.	15811A0543	MARTHI LAVANYA	CSE	2500	Tuition fee
93.	15811A0555	PENTAKOTA VINAY	CSE	2500	Tuition fee
94.	15811A0559	RALLAPALLI TEJASWANI	CSE	2500	Tuition fee
95.	15811A0563	ROUTHU JHANSI	CSE	2500	Tuition fee
96.	15811A0564	RUTTALA HEMA VENKATA HARSHINI	CSE	2500	Tuition fee
97.	15811A0569	SURLA TEJASWI	CSE	2500	Tuition fee
98.	15811A0570	THATIKONDA KAVYA	CSE	2500	Tuition fee
99.	15811A0573	VEGI GAYATHRI	CSE	2500	Tuition fee
100.	15811A0401	AARLI ESTHER RANI	ECE	2500	Tuition fee
101.	15811A0402	ADIGARLA PAVAN	ECE	2500	Tuition fee
102.	15811A0405	BATTULU PAVANI	ECE	2500	Tuition fee
103.	15811A0423	GEDDAM GIRISH	ECE	2500	Tuition fee
104.	15811A0424	GOLLAVILLI HARISH	ECE	2500	Tuition fee
105.	15811A0427	GORREPATI TEJAVATHI	ECE	2500	Tuition fee
106.	15811A0428	GUNDUBOGULA HARSHKA SRAVANTH	ECE	2500	Tuition fee
107.	15811A0434	KILLADA BHAVANI	ECE	2500	Tuition fee
108.	15811A0436	KORUBILLI LOVARAJU	ECE	2500	Tuition fee
109.	15811A0438	KORUPROLU KANNA BABU	ECE	2500	Tuition fee
110.	15811A0439	KOTHARU SWAPNA SUDEEPTHI	ECE	2500	Tuition fee
111.	15811A0442	MADUGULA PAVAN JOGI NAIDU	ECE	2500	Tuition fee
112.	15811A0447	MARTHI SANDHYA RANI	ECE	2500	Tuition fee
113.	15811A0449	MEKALA GIRIDHAR	ECE	2500	Tuition fee
114.	15811A0450	NAGAM RAMYA	ECE	2500	Tuition fee
115.	15811A0453	PAILA RAJESWARI	ECE	2500	Tuition fee
116.	15811A0454	PALLA SURESH	ECE	2500	Tuition fee
117.	15811A0459	PITLA LAVANYA	ECE	2500	Tuition fee
118.	15811A0470	SURLA PRATHUSHA DEEPTHI	ECE	2500	Tuition fee
119.	15811A0471	SURLA VENKATA BALANANDA SWAMY	ECE	2500	Tuition fee
120.	15811A0476	VEDULLA HEMA	ECE	2500	Tuition fee
121.	14811A0303	ANALA SUNIL	MECH	2500	Tuition fee
122.	14811A0308	ATTILI SRINIVASA RAO	MECH	2500	Tuition fee
123.	14811A0316	BHEEMPALLI GANESH	MECH	2500	Tuition fee
124.	14811A0324	CHINTAKAYALA JAYARAM	MECH	2500	Tuition fee
125.	14811A0328	DAWALESWARAPU SAI	MECH	2500	Tuition fee
126.	14811A0329	DAWALESWARAPU SATYA HEMANTH	MECH	2500	Tuition fee
127.	14811A0335	GAJJI ARJUNA	MECH	2500	Tuition fee

128.	14811A0344	JAMPANA KRISHNA VARMA	MECH	2500	Tuition fee
129.	14811A0348	KAPARAPU SURESH	MECH	2500	Tuition fee
130.	14811A0350	KARRI ANIL KUMAR	MECH	2500	Tuition fee
131.	14811A0353	KOLAPARTHY GANESH KUMAR	MECH	2500	Tuition fee
132.	14811A0356	KOLLI SANEEL KUMAR	MECH	2500	Tuition fee
133.	14811A0359	KOTTAPALLI GOWTAM KRISHNA	MECH	2500	Tuition fee
134.	14811A0362	KURAPATI NAGADURGARAO	MECH	2500	Tuition fee
135.	14811A0363	LAKKOJU HARINADH	MECH	2500	Tuition fee
136.	14811A0365	MAHAMMED ABDUL VAHEED	MECH	2500	Tuition fee
137.	14811A0367	MALLA VENKATA CHELLARAO	MECH	2500	Tuition fee
138.	14811A0370	MASAVARAPU NAGARAJU	MECH	2500	Tuition fee
139.	14811A0372	MATTAPARTHI V S J HEMANTH	MECH	2500	Tuition fee
140.	14811A0373	MIDATANA SIVA	MECH	2500	Tuition fee
141.	14811A0374	MITHIREDDY HARI KRISHNA	MECH	2500	Tuition fee
142.	14811A0376	MOLLI MAHESH	MECH	2500	Tuition fee
143.	14811A0379	NAKKA HARSHASRI PRAVEEN CHANDRA	MECH	2500	Tuition fee
144.	14811A0380	NARALA MOULI SAI	MECH	2500	Tuition fee
145.	14811A0382	NEKKALA VIVEK KUMAR	MECH	2500	Tuition fee
146.	14811A0389	PANCHADARLA VASU	MECH	2500	Tuition fee
147.	14811A0390	PANDA JAGANNADHA RAO	MECH	2500	Tuition fee
148.	14811A0394	PILLALA PAVAN KUMAR	MECH	2500	Tuition fee
149.	14811A0397	POTHULA SIVA NAGA DURGA PRASAD	MECH	2500	Tuition fee
150.	14811A03A0	PRATHIPATI RAMA RAO	MECH	2500	Tuition fee
151.	14811A03A1	RAPARTHI AVINASH	MECH	2500	Tuition fee
152.	14811A03B8	SIRAMREDDY SATISH	MECH	2500	Tuition fee
153.	14811A03C2	TINO VARGHESE	MECH	2500	Tuition fee
154.	14811A03C4	TOTADA VAMSI	MECH	2500	Tuition fee
155.	14811A03C6	UNGARALA JAIDEPU NAGA SAI	MECH	2500	Tuition fee
156.	14811A03D0	VISWANADHA SRI VENKATESWARA VAMSI SHARMA	MECH	2500	Tuition fee
157.	15815A0311	DODDI PAVAN KUMAR	MECH	2500	Tuition fee
158.	15815A0332	LAKKARAJU MOHAN KUMAR	MECH	2500	Tuition fee
159.	14811A0204	CHAVVAKULA SWAROOPA	EEE	2500	Tuition fee
160.	14811A0206	GANIREDDY VASU	EEE	2500	Tuition fee
161.	14811A0209	JANAPAREDDI SATEESH	EEE	2500	Tuition fee
162.	14811A0216	MANDAPALLI SAI SUDHEER	EEE	2500	Tuition fee
163.	14811A0219	MOHAMMAD VAHID	EEE	2500	Tuition fee
164.	14811A0221	PANCHADA MANIDESH	EEE	2500	Tuition fee
165.	14811A0222	PAPPALA NAGESWARA RAO	EEE	2500	Tuition fee
166.	14811A0224	RALLAPALLI REVATHI	EEE	2500	Tuition fee

167.	14811A0226	RUTTALA NARESH	EEE	2500	Tuition fee
168.	14811A0227	SAMBANGI PRABHAVATHI	EEE	2500	Tuition fee
169.	14811A0232	VABBALAREDDY NAIDU	EEE	2500	Tuition fee
170.	14811A0234	YARRAMSETTE MANIKUMAR	EEE	2500	Tuition fee
171.	14811A0505	BANGARU TARUN RAJ	CSE	2500	Tuition fee
172.	14811A0507	BODDU PAVANI	CSE	2500	Tuition fee
173.	14811A0509	BONDA SURYA ARAVIND SWAMY	CSE	2500	Tuition fee
174.	14811A0510	BOPANA LAKSHMI LAVANYA	CSE	2500	Tuition fee
175.	14811A0514	DAGGUPATI VIJAYA DURGA	CSE	2500	Tuition fee
176.	14811A0515	DANGETI ROJA	CSE	2500	Tuition fee
177.	14811A0523	GRANDHI SWAPNIKA	CSE	2500	Tuition fee
178.	14811A0527	JANAKI NAGENDRA	CSE	2500	Tuition fee
179.	14811A0533	KARRI ANITHA	CSE	2500	Tuition fee
180.	14811A0538	LANKA VARUN VARDHAN	CSE	2500	Tuition fee
181.	14811A0540	LOKARAPU VENKATARAMANA	CSE	2500	Tuition fee
182.	14811A0542	MOHAMMED AKRAM ISSACK AHMED	CSE	2500	Tuition fee
183.	14811A0544	NAGUMANTHRI SAIDUTT	CSE	2500	Tuition fee
184.	14811A0546	NISHTALA S V V JYOTHI	CSE	2500	Tuition fee
185.	14811A0549	PALA VAMSI PRATHYUSHA	CSE	2500	Tuition fee
186.	14811A0550	PENTAKOTA BHAGYA SREE	CSE	2500	Tuition fee
187.	14811A0552	PILLA SAI PAVANI VINEETHA	CSE	2500	Tuition fee
188.	14811A0553	POLAMARASETTI SAI RAM CHARAN	CSE	2500	Tuition fee
189.	14811A0554	PRATAPAGIRI SAI KIRAN	CSE	2500	Tuition fee
190.	14811A0556	RAJANA PRANAY	CSE	2500	Tuition fee
191.	14811A0561	SALAMSETTY NANDINI DEVI	CSE	2500	Tuition fee
192.	14811A0565	SAYEDMOHAMMED NAINA MOHAMAD	CSE	2500	Tuition fee
193.	14811A0570	VARRE LOKESH SOHIL KUMAR	CSE	2500	Tuition fee
194.	14811A0401	ADDEPALLI Y N R SABAREESH	ECE	2500	Tuition fee
195.	14811A0406	BANDAM ARUNA	ECE	2500	Tuition fee
196.	14811A0410	CHINTAKAYALA RAMU	ECE	2500	Tuition fee
197.	14811A0412	DOPPA BABY LAVANYA LAKSHMI	ECE	2500	Tuition fee
198.	14811A0414	ETAMSETTI GOWTHAMI	ECE	2500	Tuition fee
199.	14811A0416	GAVIREDDI DEVI	ECE	2500	Tuition fee
200.	14811A0417	GEDDAM JYOTHI	ECE	2500	Tuition fee
201.	14811A0418	GOLLU GOPAL	ECE	2500	Tuition fee
202.	14811A0420	GUNDUBOGULA ABHIPRIYA	ECE	2500	Tuition fee
203.	14811A0423	JAVVADI CHAKRA SAI	ECE	2500	Tuition fee
204.	14811A0425	KACHCHALLA KUMARI	ECE	2500	Tuition fee
205.	14811A0426	KADARI SRINU	ECE	2500	Tuition fee
206.	14811A0431	KANNURU PADMAJA	ECE	2500	Tuition fee

207.	14811A0435	KORASALA BHASKAR	ECE	2500	Tuition fee
208.	14811A0438	LEKKALA RAMATULASI	ECE	2500	Tuition fee
209.	14811A0440	MAKIREDDI CHINNA	ECE	2500	Tuition fee
210.	14811A0441	MANTRIPRAGADA PHANI RAJA MITRA	ECE	2500	Tuition fee
211.	14811A0443	MOGALAPALLI ALEKYA	ECE	2500	Tuition fee
212.	14811A0446	NOOTHI SIRISHA	ECE	2500	Tuition fee
213.	14811A0448	PATCHIGOLLA SITARATNAM	ECE	2500	Tuition fee
214.	14811A0452	PRASADI MANJULA	ECE	2500	Tuition fee
215.	14811A0455	RAPETI JAGADEESH KUMAR	ECE	2500	Tuition fee
216.	14811A0458	RUTTALA JYOTHI	ECE	2500	Tuition fee
217.	14811A0459	RUTTALA REVATHI	ECE	2500	Tuition fee
218.	14811A0460	SAYAM YUVARAMA CHANDRA HAS	ECE	2500	Tuition fee
219.	14811A0464	SIRAM ROHINI PRIYANKA	ECE	2500	Tuition fee
220.	14811A0466	SUNKARA SANTHOSH	ECE	2500	Tuition fee
221.	14811A0469	TUMMALAPALLI SWAMINADH	ECE	2500	Tuition fee
222.	14811A0472	VADDI RAVI KUMAR	ECE	2500	Tuition fee
223.	14811A0473	VADDI SHYAM VENKATA KUMAR	ECE	2500	Tuition fee
224.	14811A0476	VIYYAPU VARAHA ANIL KUMAR	ECE	2500	Tuition fee
225.	14811A0478	YERRA PREM KUMAR	ECE	2500	Tuition fee
226.	14811A0479	YERUBOLU RAMYA	ECE	2500	Tuition fee

Institutional concession fee details:

Description	2015-16	2012-13	2011-12
Tuition Fee	477500	422500	322000
Bus Fee	56000	54000	32000
Hostel Fee	138000	95000	54000
Total amount in Rs	6,71500	5,71500	<b>4,08000</b>

### 5.1.3 What percentage of students receives financial assistance from state Government, central government and other national agencies?

- 90% of students receive financial assistance from the State Government. and 1% from national agencies like LIC, PMRY, GMR, IOCL etc.

### Fee Reimbursement from State Government: 2014-15

MAKAVARAPALEM COLLEGE MBA MTECH BTECH SCHOLARSHIP(RENEWAL) DETAILS 2014-2015		
CATEGORY	STENGTH	RENEWAL RECEIVABLE
SC	78	2736200
ST	17	600500
BC	578	20348500
EBC	192	6706500
MIN	15	506000
<b>TOTAL</b>	<b>880</b>	<b>30897700</b>

ST , SC	
33500	4th
35000	3rd
37600	2nd
37600	1st
57000	MTEch
27000	MBA

MAKAVARAPALEM COLLEGE MBA MTECH BTECH SCHOLARSHIP(FRESH) DETAILS 2014-2015		
CATEGORY	STENGTH	FRESH RECEIVABLE
SC	28	1063400
ST	4	169800
BC	319	11351000
EBC	122	4298000
MIN	14	540000
<b>TOTAL</b>	<b>487</b>	<b>17422200</b>

BC,EBC,MIN	
33500	4th
35000	3rd
35000	2nd
35000	1st
57000	MTEch
27000	MBA

MAKAVARAPALEM COLLEGE DIP SCHOLARSHIP(FRESH) DETAILS 2014-2015		
CATEGORY	STENGTH	FRESH RECEIVABLE
SC	3	44700
ST	0	0
BC	59	879100
EBC	18	268200
MIN	0	0
<b>TOTAL</b>	<b>80</b>	<b>1192000</b>
<i>Grand Total</i>	<i>1447</i>	<i>48319900</i>

DIP (SC,BC ,EBC)
14900

Description	2014-15	2013-14	2012-13	2011-12
Total number of students	<b>1546</b>	<b>1234</b>	<b>1349</b>	<b>1232</b>
Total number of students receives financial assistance from Govt.	<b>1447</b>	<b>1191</b>	<b>1222</b>	<b>1097</b>
percentage of students receives financial assistance	<b>94%</b>	<b>97%</b>	<b>91%</b>	<b>89%</b>
Total Amount Rs.	<b>4,83,19900</b>	<b>4,13,40700</b>	<b>4,08,18700</b>	<b>3,73,30700</b>

#### **5.1.4 What are the specific support services/facilities available for students given below.**

The Institution is committed to provide the students every possible help and support they need in pursuit to become civilized and worthy citizens. The college as stated earlier, was set up with a mission of imparting holistic education. The institution for this purpose provides the following support facilities to its students.

SC/ST, OBC and economically weaker sections

- The students who belongs to SC/ST/OBC and economically weaker sections are identified during the process of admission only. The college maintains the detailed recorded of the same. These students are provided every possible help during the stay in the college.
- The Central Government, State Government, University sponsored scholarships and concessions are given to such students. The college management is very thoughtful regarding such students
- The College Library issue book bank library facility from which SC/ST students can borrow additional books.
- All SC/ST students receive financial assistance in the form of tuition fee, maintenance charges and pocket money from the government as per the state government regulations.
- College Attached Hostel (CAH) is provided to the SC/ST students.
- OBC students also receive financial assistance in terms of tuition fee and maintenance charges.
- The college arranges additional training and remedial classes for academically lagging students.
- Faculty advisors and Class counselors take special attention of slow learners, identifying their academic deficiencies.

Physically challenged and other disabled students

- Wheel chair for physically challenged persons with a person assistance
- Class and examination rooms are arranged on the ground floor.

Overseas students

- There are no overseas students in this college.

Students to participate in various competitions/conference in India and abroad.

- The college extends financial support to students participating in various competitions, conferences in India and abroad as per the HR Policy.
- Good number of students secured prizes in Inter University and Inter Collegiate events.



### Medical Assistance to students

- The college has a very special concern for the health and hygiene of the college students, staff, and other members.
- The College has a Medical Centre for emergencies. Part time Doctor and a fulltime nurse is available on campus. First aid will be given and for any serious issues it'll be referred to the multi specialty hospital where we had a MOU.
- Apart from the above the college organizes check up camps by physicians, dentists, ophthalmologists, dermatologists and keeps a strict watch on the health of students and the staff.
- Proper arrangement for purified drinking water is available in the college campus.
- Group Insurance is provided to all the students, faculty and staff.
- Ambulance is provided on campus for emergency cases.

### Organizing Coaching classes for Competitive Examinations

- Every week 2 hours slot was incorporated in regular time table to give special coaching classes for competitive examinations by external experts like TIME Institute, Job Info Solutions, B Tech Guru.
- In addition, the T&P and career guidance cell provides guidance and conducts awareness programs on career planning and competitive examinations like GATE/CAT/GRE/TOEFL/IES,etc.
- The college has sufficiently well stocked library books for GATE/CAT/GRE/TOEFL.

### Skill Development (Spoken English, Computer literacy)

The college regularly conducts Personality Development programmes (PDP) which enhances the confidence and communication skills of the participants. The college also invites experts and eminent people from the industry which provides regional and global advancements and latest trends for the students. Special classes

are taken for communication skills taking in to considerations the background of the students. The college has the following laboratories to enhance students' skills.

- ELCS Lab: For developing communication skills.
- AELCS Lab: To enrich their body language, voice modulation and eye contact.
- Two Trainers are providing in-house training on English proficiency for the students.
- IT Workshop: For developing technical and core skills.

### **LIST OF INHOUSE TRAINING PROGRAMS CONDUCTED**

<b>Academic Year</b>	<b>No of Programs</b>	<b>NAME OF THE AGENCY</b>	<b>DATE</b>
<b>2015-16</b>	<b>4</b>	Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	29-09-2015
		IBM-blue MIX technologies. IBM. Hyderabad	29-09-2015
		Soft Skills , Group Discussion & Personal Development.Senior Trainer.JKC.Hyderabad	30-09-2015,01-10-2015
		CRT Classes by OMEGA Career Solutions. Hyderabad	August 2015 to Till Date
<b>2014-15</b>	<b>4</b>	Globarena -Hyderabad(JNTUK Partner)	Aug 2014-Dec 2014
		CRT Classes by OMEGA Career Solutions. Hyderabad	July 2014 to Feb 2015
		Soft Skills , Group Discussion & Personal Development. Senior Trainer,JKC,Hyderabad	9-09-2014 to 10-09-2014
		IBM-DB2 Workshop by JKC.Hyderabad	21-07-2014
<b>2013-14</b>	<b>3</b>	IBM Worklight by IT Associate.JKC	29-03-2014
		Globarena -Hyderabad(JNTUK Partner)	Sep 2013 to Jan 2014
		Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	Aug 2013- Sep 2013



### Support for slow learners

- The College understands that it has to serve the basic education needs of one and all. Each and every faculty analyzes the performance of the students in the previous semesters/year and identifies the weak/slow learners/advance learners before entering in to the first class and confirms the list of slow learners.
- Remedial classes are arranged for such slow learners. Make up tests are held to assess their learning after taking remedial classes.
- For every twenty students a Faculty Advisor is appointed to help him/her with counseling and intensive coaching. Faculty Advisors continuously monitor their progress.

Exposure of students to other institutions of higher learning/corporate/business houses, etc.

- Students are encouraged and guided to participate in events organized by other institutions to have a better exposure and develop culture for team work.
- Students visit various industries, higher learning institutions and corporates for practical exposure.



Students at NSTL; Visakhapatnam as part of Industrial Tour

### 5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- Entrepreneurship Development Cell is involved in arranging one day seminars / workshops by the well known entrepreneurs from medium and small scale industries.
- EDC has been developed with 6 Faculty and 12 student coordinators. The committee will conduct the seminars/workshops.

**List of Committee members:**

s.no	Name of faculty	Designation	Position
1.	V.Sai Prasanth	HOD, MBA	Convener
2.	Ch.V.Sridevi	Assoc. Professor,ECE	Co-Convener
3.	P.V.S.Prabhakar	Asst. Professor, CSE	Member
4.	K.DurgaRao	Asst. Professor,EEE	Member
5.	B.Ramesh	Assoc. Professor,MECH	Member
6.	J.KondaBabu	Asst. Professor,H&BS	Member

**List of Student Coordinators:**

S.NO	Coordinator	Department
1.	N.Sireesha Rani	ECE
2.	M Pulla Rao	
3.	R Priyanka	
4.	D.Sanjay	EEE
5.	P.Ravi kumar	
6.	A.Prasanna krishna	CSE
7.	M.Uday kumar	
8.	Konala sandeep	MECH
9.	P.Anil kumar	
10.	G. murali krishna	
11.	T.Sai krishna	MBA
12.	L.Laxman kumar	

**The Entrepreneurship cell conducts the following programmes.**

- Faculty development programs
- Industry expectations
- Establishment of a new business
- Overseas education and opportunities
- Industry institute interaction etc.

List of seminars/workshops held by the Committee:

S. No	Name of the Resource Person/ Organization	Name of the Program	Dates
<b>2015-16</b>			
1	Faculty development program by Prof M.L Sai Kumar is a Fellow Computer Society of India & Professor & PGDM Co-ordinator, Institute of Public Enterprise	Faculty development program	18-03- 2016
2	Sri J.Satyanarayana I.A.S Advisor,IT,Govt.of Andhra Pradesh.	Future Challenges in IT and Skill Development	6-10- 2015
	Sri. Adapa Raja suresh Kumar Founder & CEO,Synchroserve Global Solutions Pvt.Ltd.Hyd.		
3	Sri M.Srikanth National Head Academy of Robotics	Entrepreneur development program & Two days workshop on Robotics and embedded systems	16 <sup>th</sup> to 17 <sup>th</sup> Oct 2015
<b>2014-15</b>			
1	Sri Rayaprolu S.S Sarma Head Virtusa,Hyd	Career Opportunities	13-02- 2015
2	Dr .M Laxminarayana Scinetist'H',DLRL&Vice Chairman,IEEE Hyd Section	Future Challenges in Military and Role of DLRL	14-02- 2015
3.	Sri T.Vasudeva Rao Head, Startup Village,Visakhapatnam	How to start SSI unit, general & financial aspects of SSI, Salient futures of project report	14-02- 2015
4.	Sri Narendra Nerla Vice President,Inspire Edge IT Solutions,VSP	Future Challenges in IT and Skill Development	14-02- 2015
5	Dr .Deepak L.Waikar Energy consultant, Singapore	A two day skills, development workshop on sustainable and clean energy technologies resources	22 <sup>nd</sup> to 23 <sup>rd</sup> Jan 2015
6	JNTUK,Kakinada & Avanthi institute of engineering and technology & Visakhapatnam port trust. M.T.Krishna Babu, IAS Chairman, Visakhapatnam Port Trust & Dr. G. Tulasi Ram Das, Vice Chancellor , JNTU Kakinada	Exploring entrepreneurship opportunities in Andhra Pradesh” Organised by centre for entrepreneurship development JNTUK,Kakinada in association with Avanthi institute of engineering and	10 <sup>th</sup> to 11 <sup>th</sup> Oct 2014

		technology&Visakhapatnam port trust	
<b>2013-14</b>			
1	Sri S.Surya Shankar,DGM(Telecom) Visakhapatnam Steel Plant	Career Opportunities in BSNL	5-04- 2014
2	Sri K srinivasa Rao Div.Manager(Lines) APTRANSCO,Kalpaka	Career Opportunities in APTRANSCO	5-04- 2014
3	Sri N Rajesh Group Head(Enterprise Marketing) Miracle Software systems	Historical background to Indian values entrepreneurship in the present scenario	5-04- 2014
4	Sri M Prasad Sr.DGM(E&I),ANRAK,Makavarapalem	Career Opportunities	4-04- 2014
5	Sri K Ajay AssociateVice- President,ANRAK,Makavarapalem	Career Opportunities	4-04- 2014
6	E-Plus club To improve communication Skills	Organizing inter collegiate E- Plus Club Challenge	Feb 22 2014
<b>2012-13</b>			
1	Mr. Abraham Vergheese, Scientist-F, NSTL, Visakhapatnam	Enterprenincial oriented programme	22-03- 2013
2.	Mr. K. Veeru Naidu, TCS, Hyd	Career Opportunities	22-03- 2013

**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

**Policies and Strategies:**

- Special hour is allotted in time table for co-curricular activities like sports& games, library, internet and counseling.



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY  
TAMARAM, MAKAVARAPALEM MANDAL, VISAKHAPATNAM DISTRICT

W.E.F. :

III B.TECH. II SEMESTER (R10) ECE-I BRANCH TIME-TABLE FOR THE YEAR 2014 - 15

DAY	1	2	3	12.00 TO 12.30	4	5	6
	9 TO 10	10 TO 11	11 TO 12		12.30 TO 1.30	1.30 TO 2.30	2.30 TO 3.30
MON	CN	MWE	VLSI	LUNCH BREAK	MP & MC LAB/E CAD LAB		
TUE	MS	MWE	CN		DSP	VLSI	IPRP-2
WED	MS	DSP	MP&MC		CN	MWE	LIBRARY
THU	DSP	MS	MP&MC		E CAD/MP & MC LAB LAB		
FRI	VLSI	MS	MWE		CN	MP & MC	SPRTS
SAT	MP&MC	VLSI	MS		IPRP-2	CN	DSP

DSP  
VLSI  
MWE  
MP&MC

SAHITYA KIRAN  
B N SRINIVAS RAO  
R PRASAD RAO  
E GOVINDA

CN NARESH  
MS NOOKI NAIDU  
MP LAB SRIDEVI/E GOVINDA  
ECAD Lab : Ashok/ Anil  
IPR & Patent II: Archana

PRINCIPAL

- Attendance will be considered to the students who participate in extracurricular and co-curricular activities.
- TA & other expanses will be provided to the students if they are participated in university and zonal levels, and also provided to students who got the prizes in inter institutional activities.

Conducting special classes for the students who are participating in

- sports / NSS / cultural events / extra-curricular activities

### Implementations:

- Two full time Physical Directors have been appointed.
- A sports club has been developed with 6 male faculty coordinators, 5 female faculty coordinators and 12 student coordinators along with 2 PDs to organize several games and sports and to encourage the students for better participation in competitions.

### List of sports club members:

Department	Faculty co-ordinator	Student co-coordinator
Physical Director	Mr.S.K.Khadar Basha Mr.M.KumarRaja	---
CSE	Mr P.Naresh Ms V.Suneetha	1. E. Harish 2. Ch. John Paul
ECE	Mr R.Aneel kumar Ms P.Sri Satya	1. G Sai Lakshmi 2. P M V Appa Rao

EEE	Mr P.Anil Kumar	1. A Ravi Kumar 2. S Hima Bindu
H&BS	Mr G.V Nagesh Ms S. satya sree	1. B.Sai Kalyan 2. Mahindra Chandhu
MECH	Mr V.Harikiran Ms V.Kanakavardhini	1. Chaithanya prabhu 2. G.Murali krisna
MBA	Mr T.Gopi Ms E.Roopa	1. A Ganga Appa Rao 2. A Srividya

- A cultural club has been developed with 6 faculty coordinators and 12 student coordinators with one Physical Director organizing various extra-curricular activities like singing, dance, skit playing and role plays which leads to students to involve in the competitions.

**List of cultural club members:**

Department	Faculty co-ordinator	Student coordinators
Physical Director	Mr.S.K.Khadar Basha	-
ECE	Mr D.Lakshmi Narayana	1. P Hima Bindu 2. B Ranjith Kumar
CSE	Mr N.Swaroop	1. M Vinay Kumar 2. Ch Pavani
EEE	Mr P Varahala Dora	1. T Sai Ram 2. A Naga Babu
MECH	Mr P.Rama krishna	1. Shahbaaz khan 2. Ch. Tarun Kumar
H&BS	Mr P Som Babu	1.B.Teja 2.G.Harish
MBA	Mr K.Nooki Naidu	1. L Sravani 2. Subba Rao

- A Literary Club has been implemented with 7 faculty team and 10 Student coordinators as listed and conducting various literary activities like debate, quiz, extempore etc., on regular basis and winners are awarded prizes and certificates.

**List of literary club members:**

Department	Faculty co-ordinator	Student coordinators
T&P	Mr T.SrinivasaRao(Assoc.Professor)	-
ECE	Mr B.N Srinivasa Rao(Assoc.Professor)	M Sai Jyothi (III year) M Varahala Naidu (IV year)
CSE	Mr G Varahagiri(Asst.Professor)	B V S S Teja (IV year) B Bhaskar (III year)

EEE	Mr J Dileep kumar(Asst.Professor)	S Pooja (IV year) G Appa Rao(III year)
MECH	Mr ANS Surya Prakas(Asst.Professor)	CH. Santosh kumar (IV year)
H&BS	Ms K.Kalyani(Asst.Professor)	G.Mounika (I CSE )
MBA	Mr K Santhosh Kumar(Asst.Professor)	Appala Raju (II year) S Nikitha (I year)



**Cultural Activities**



**Quiz Competitions**



**Paper Presentations**



**NSS Medical Camp**



Volley Ball



winners of co-circular activities

## SPORTS & GAMES ACHIEVEMENTS 2015 – 2016

S.NO	Name	Class	Represented in
1	Mr Murali	III MECH	Made her debut through Selection for J N T U, Kakinada, South Zone Inter University Sports Meet Aug 2015 in Boxing meet at Vijayawada to be held at University of Haryana, Punjab.

## SPORTS & GAMES ACHIEVEMENTS 2014 – 2015

S.NO	Name	Class	Represented in
1.	Mr Vamsi Mr sunny Mr Praveen Mr praveen	II MECH	The team represented in JNTUK Athletics meet 4*100m relay run and one bronze medal
2	Mr Murali	II MECH	He is represented in JNTUK Athletics meet 5Km Run and one silver medal
3	Mr Charan	II MECH	He is represented in JNTUK Athletics meet 100mts Run and one silver medal
4	Ms sukanya	I CSE	She is represented in JNTUK Athletics meet shot put .
5	Ms Sambhavi Ms Sukanya Ms Ramya Ms Bhagya	I CSE I CSE III ECE IICSE	The team represented in JNTUK Athletics meet 4*100m relay run
6	Ms prasanna Tulasi	I ECE	She is represented in JNTUK Athletics meet 1500mts&800mts



## SPORTS & GAMES ACHIEVEMENTS 2013 – 2014

S.NO	Student Name	Class	Represented in
1	K.Jaya swathi	IVECE	Won 400m run silver medal& 800run bronzmedal,4*400m relay run bronze medal
2	B,Sridevi	IVCSE	High jump-bronze medal ,1500run-bronzemedal,4*400relay run-bronze medal
3	N.Sravani	IVCSE	4*400relay run-bronzemedal
4	G.Divya Kumari	IVCSE	4*400relay run-bronzemedal
5	P.Ramya	IVECE	100m run- bronzmedal,
6	R.Sravani	III MECH	1500m run-Silver medal
7	S.SnayasiNaidu	III MECH	1500m run-Silver medal,800m run – Bronzemedal,4*400m realy run-gold medal
8	N.VenuGopalswamy	IVECE	400m relay run-gold medal, He is represented as JNTUK kho-kho team
9	K.Rajesh Kumar	IVEEE	800m run-silvermedal,4*400nm realay run-gold medal
10	S.Charan kumar	IIMECH	4*100m realy run bronze medal
11	MD.Askhpak ali	IIIMECH	4*100m realy run bronze medal
12	D.Narendara	IIIMECH	4*100m realy run bronze medal
13	M.Praveen kumar	IIMECH	4*100m realy run bronze medal
14	B.VamsiKrishna	IMECH	4*100m realy run-bronze medal, he is represented as JNTUK Athlentics team, He is participated All-India inter university Athletics meet at Punjab university,patilala,Punjab state
15	S.Ramesh(captain)	IIIEEE	Our college team secured volley ball winners at JNTUK, Inter collegiate games(MEN)tournament 2013-14 was organized by GMRIT, Rajam.

## SPORTS & GAMES ACHIEVEMENTS 2012 – 2013

S.No	Name	Class	Represented in
1	Mr.D.Dattatreya	Iyr MBA	Represented Open National Level Wado Karate Championship 2012 April. He won National Bronze Medal 60 Kgs Sparing Section at Hyderabad.
2	Mr. K. Johnson Varghese	III Yr B.Tech(IT)	Made him debut through selection for JNTUniversity,Kakinada, Inter University Sports Meet 2012 -13 December in Basket Ball game held at NTR Health University of Sciences, Vijayawada
3	Mr. D. Dattatreya	IYrMBA	Represented Open Kenurey Nation Karate Championship, Nov, 2012 National Gold Medal 55 kgs sparing section at Kerala.
4	Ms. K. Jaya Swathi	III Yr B.Tech(ECE)	Made her debut through Selection for J N T U, Kakinada, South Zone Inter University Sports Meet December, 2012 in Kho-Kho game to be

			held at University of Calicut Malapuram, Kerala.
5	Mr. D. Rama Raju	IV Yr B.Tech(CSE)	Represented made him debut through Selection for J N T U, Kakinada, All India Inter University Athletics, tournaments, January, 2012 held at University of Kalyani, Kalyani, West Bengal.

J N T U K & Inter Collegiates (Central Zonal Level)  
Athletics Men & Women Achievements 2012-2013

S.NO	Name Of The Student	Year/Branch	Events & Prizes
1	Ms. K. Jayaswathi	III Yr B.Tech(ECE)	Achieved Silver Medals for 200 Meters Run, & 800 Meters Run and Gold Medals for 4 x 100 Mts & 4 x 400 Mts Relay Run at J N T University, Kakinada during March, 2012.
2	Ms. D Shiney	IIYr B.Tech(ECE)	Achieved Silver Medals for 200 Meters Run and Gold Medals for 4 x 100 Mts & 4 x 400 Mts Relay Run at J N T University, Kakinada during March, 2012.
3	Ms. L Vanaja	I Yr B.Tech(ECE)	Achieved Bronze Medal for 400 Mts. Run and- Gold Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
4	Ms. G. Yashoda	IIYrB.Tech(M ECH)	Achieved Gold Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
5	Ms. Sai Aswitha	IYr B.Tech(CSE)	Achieved Bronze Medal for 100 Mts. Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
6	Mr. D. Rama Raju	IVYr B.Tech(CSE)	Achieved Silver Medal for 200 Mts. Run and Silver Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012
7	Mr. P. Pydam Naidu	IVYr B.Tech(EEE)	Achieved Bronze Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
8	Mr.N.Venugopal Swamy	IIIYr B.Tech(EEE)	Achieved Bronze Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.

9	Mr. K Rajesh Kumar	IIIYr B.Tech(EEE)	Achieved Bronze Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
10	Mr. P Siva Kumar	IIIYr B.Tech(EEE)	Achieved Silver Medal for 4 x 100 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
11	Mr. Md. Aspak Ali	IIYrB.Tech(M ECH)	Achieved Silver Medal for 4 x 100 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012
12	Mr. S Sanyasi Naidu	IIYrB.Tech(M ECH)	Achieved Silver Medal for 4 x 100 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012.
13	Mr. S Charan	IYr B.Tech(MECH )	Achieved Bronze Medal for 4 x 400 Mts. Relay Run at Aditya Engineering College, Surampalem, East Godavari District during December, 2012

**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.**

- A Career Guidance Cell is developed with one TPO, one Professor In-charge along with 5 teaching faculty coordinators.
- All the coordinators are interacted with the students; based on their interest we can form the groups and making a path for their success according to their own interest.
- In past years the committee has been conducted GATE classes and Mock tests with the help of GATE FORUM and GATEWAY learning training intuitions.
- The committee has been conducted CRT classes with the help of JKC and Inter institutional faculty.

Career Guidance Cell is constituted with the following members.

S.no	Career Guidance Committee Coordinator	Department
1.	Mr T.Srinivasa Rao	TPO
2.	Sri MV Ramana Murthy	Professor Incharge
3.	Mr N.V.Ashok kumar	CSE
4.	Mr P.ashok kumar.	ECE
5.	Mr R.aneel kumar	ECE
6.	Mr V.hari kiran.	MECH
7.	Mr B.prasanth.	MBA

Academic Year	GATE	PGE CET	GRE
2014-15	2	22	-
2013-14	3	18	5
2012-13	5	26	8

**5.1.8. What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)**

- Academic and personal counseling is done by a teacher for a group of 20 students.
- For the total 4 years a consolidated report is maintained for each student.
- Sample - Counselors list of Electronics and Communication Engineering 2012 admitted students



**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
TAMARAM (VILL), MAKAVARAPALEM (M.O), VISAKHAPATNAM (DIST).

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Counsellors of IV –B.Tech For The Academic Year-2015-16**

S.No	Student Roll Numbers	Number of students	Name of Counseller	Sign.
1.	12811A0 401-420	20	P. Ashok	<i>Ashok</i>
2.	12811A0 421-440	20	R. Anzel Kumar	<i>Anzel</i>
3.	12811A0 441-460	20	P. Sri Satya	<i>P Satya</i>
4.	12811A0 461-482	20	CH. Sridevi	<i>Sridevi</i>
5.	12811A0 483-4A3	20	D. lakshminarayana	<i>Lakshmi</i>
6.	12811A0 4A4-4A7	19	D. Srinivas	<i>Srinivas</i>
7.	12811A0 4C1-13815A0 403	20	P. Raghava kumar	<i>Raghava</i>
8.	13815A0 405-424	20	T.P Naidu	<i>T.P Naidu</i>
9.	13815A0 425-441	17	P. Sahitya kran	<i>Sahitya</i>

*[Signature]*  
HOD

**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF ECE**  
Avanathi Institute of Engg. & Tech.  
Makavarapalem, Visakhapatnam Dist.-531 113

**PRINCIPAL**

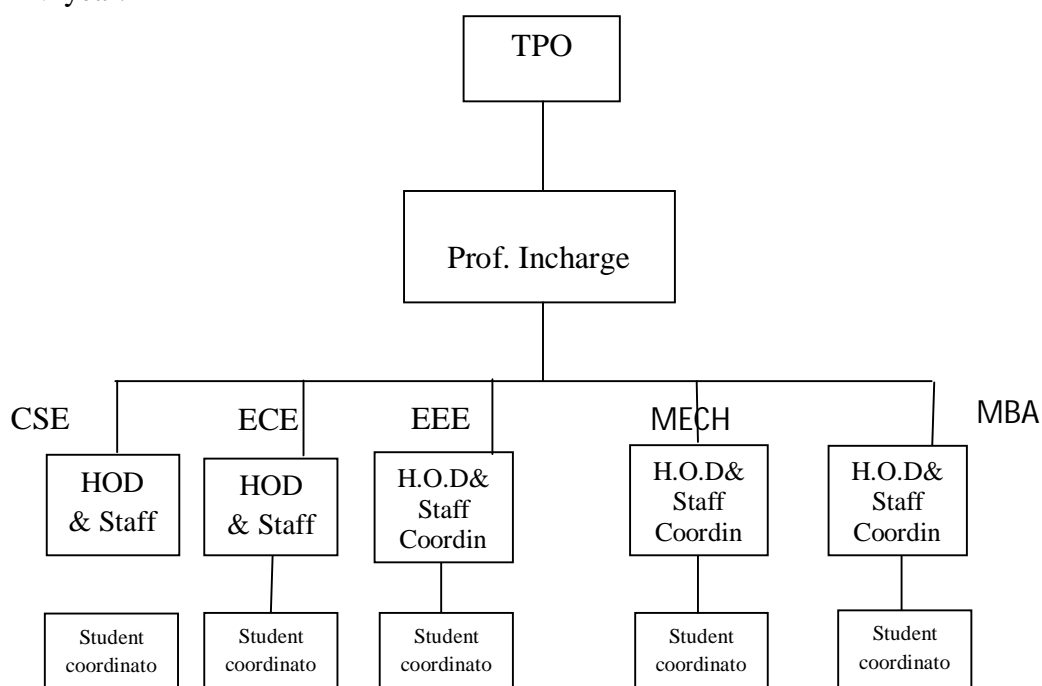
Principal  
Avanathi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).**

**Yes**

The College has established a separate carrier guidance and Training and Placement Cell with one full time Placement Officers. It invites reputed companies for campus placements by sending the profile of the college. The institution also effectively uses its alumnus working with the companies in attracting the companies for campus placements.

**Services Provided:** The carrier guidance and T & P Cell is making all possible efforts to further improve the employability skills of students through its activities like personal development, Soft skills, Emotional intelligence and communication labs. It also conducts a well structured pre-placement training right from I year to III year. The students are fully trained by the time the campus recruitment process starts in IV year.



**LIST OF INHOUSE TRAINING PROGRAMS CONDUCTED**

<b>Academic Year</b>	<b>No of Programs</b>	<b>NAME OF THE AGENCY</b>	<b>DATE</b>
<b>2015-16</b>	<b>4</b>	Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	29-09-2015
		IBM-blue MIX technologies. IBM. Hyderabad	29-09-2015
		Soft Skills , Group Discussion & Personal Development.Senior Trainer.JKC.Hyderabad	30-09-2015,01-10-2015
		CRT Classes by OMEGA Career Solutions. Hyderabad	August 2015 to Till Date
<b>2014-15</b>	<b>4</b>	Globarena -Hyderabad(JNTUK Partner)	Aug 2014-Dec 2014
		CRT Classes by OMEGA Career Solutions. Hyderabad	July 2014 to Feb 2015
		Soft Skills , Group Discussion & Personal Development.Senior Trainer.JKC.Hyderabad	9-09-2014 to 10-09-2014
		IBM-DB2 Workshop by JKC.Hyderabad	12-12-2014to 13-12-2014
<b>2013-14</b>	<b>3</b>	IBM Worklight by IT Associate.JKC	29-03-2014
		Globarena -Hyderabad(JNTUK Partner)	Sep 2013 to Jan 2014
		Soft Skills , Group Discussion & Personal Development-MEDHA. Visakhapatnam	Aug 2013-Sep 2013

DETAILS OF PLACEMENT ARE GIVEN BELOW:

<b>ACADEMIC YEAR</b>	<b>NAME OF THE ORGANIZATION</b>	<b>SALARY PACKAGE PER ANNUM IN LAKHS</b>	<b>NUMBER OF STUDENTS SELECTED</b>
2015-16	CAPRUS IT	1.2	1

	App Associate	1.9	4
	CTS,Hyderabad	2.7	1
	Green Brooks	1.9	4
	Cape Electric	1.8	1
	Rajdeep Infotech	1.4	4
	Sanspareil it solutions	2	8
	Act CAD	2	1
	Axalt Technologies PVT limited	2.2	4
	Anupama Electric	1.4	3
	Happy core network India PVT LTD	1.8	5
	Rane Madras LTD	1.5	9
	Digi tele services	1.5	12
	Credency solution PVT Limited	2.0	12
	Kochar Solutions	1.4	1
	Elico Instrumentation	1.4	1
TOTAL(Till date)			70
2014-15	AXALT TECHNOLOGY	2.7	12
	EXCELL GLOBAL SERVICE,VSP	2	2
	GENPACT,HYD	1.8	25
	GREEN INDIA MINIG,HYD	1.5	12
	IBM,BANGALORE	2.6	8
	IN RHYTHAM,HYD	2.3	4
	INFOSYS,HYD	3.1	1
	MIRACLE SOFT WARE,VSP	1.4	5
	MPHASIS,BANGALORE	2.1	11
	POLARIS,HYD	2.6	8
	PROLIFICS,HYD	2.4	6
	SUTHER LAND,HYD	1.8	10
	TCS,HYD	2.7	2
	TECH MAHINDRA,HYD	2.5	6
	XPORT SOFT TECHNOLOGIES,HYD	1.8	1
	EIDER MOTORS,HYD	2.1	5
POWER BUILT,HYD	2.1	5	

TOTAL			123
2013-14	TECH MAHINDRA,HYD	2.47	17
	SEMANTI SPACE TECHNOLOGIES,HYD (PROLIFIC SYSTEMS)	2.3	8
	MIRACLE SOFTWARE SOLUTIONS,VSP	1.2	10
	GENPACT,HYD	1.9	13
	AURO POWER PVT LTD,BANGALORE	2.1	10
	GREEN BROOKS TECHNOLOGIES	1.2	3
	INFOSYS	2.8	9
	GEMINI COMMUNICATION,CHENNAI	1.2	2
	HCL ,BPO	1.8	9
	WIPRO,BPO	1.8	10
	USM SYSTEM,HYD	2.2	4
	OFOS PVT LTD	1.5	15
	HELIOS COMMUNICATION	1.2	4
	ACCERE GLOBAL SOLUTIONS	2.4	5
	Synatel inc	2.3	19
	SUTHER LAND	1.3	14
	IBM	1.9	1
TATA MOTORS	2.5	3	
AAS TECHNOLOGIES,HYD	1.2	9	
TOTAL			138
2012-13	AAS TECHNOLOGIES	1.2	10
	APPLEINE TECHNOLOGIES , NOIDA	2.0	20
	CROSS DOMINE ,BANGALORE	1.9	8
	GENPACT,HYD	1.9	4
	GISL ,HYD	1.8	11
	HCL TECHNOLOGIES	1.8	9
	HOSPERICA,VSP	1.9	7
	INFOTECH,HYD	1.8	4
	OLAM INDUSTIRE PVT LTD , VSP	1.4	7
	OMEGA SEA SERVICE ,MUMBAI	1.2	5
	OSMOSYS,HYD	1.8	13
	POSCO MAHARASHTRA (STEEL)	1.4	3
	QM TECHNOLOGIES , HYD	1.8	9
	QUANTUM CLOTHING GROUP LTD VSP	1.4	6
	SEMANTIC SPACE TECHNOLOGIES ,HDY	2.3	10



	(PROLIFIC SYSTEMS)		
	TECH MAHINDRA	2.4	1
	TOXSL	1.2	4
TOTAL			131



One to One HR Interview



Registration Desk - on Campus



Selected Students



Help Desk - Mega Job Mela

**5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.**

The college has established grievance Redresses cell for students.

- Principal is the chairman for all the grievance committees.
- HODs are responsible for resolving the grievances under the guidance of principal.
- Grievance redressal cell is developed with seven faculty members and 14 student coordinators. The total team will look after grievances.

**Grievance redressal committee:**

In-charge of the committee: Sri M.V Ramana Murthy, Professor

Department	Faculty Co-Ordinator	Student co-ordinators
ECE	M Kedareeswara Rao, Assoc. Professor	A.Vamsi Krishna
EEE	Mr P Anil Kumar, Asst.Professor	K Praveen Kumar
CSE	Mr NV Ashok kumar, Asst.Professor	Shabanazmi
H&BS	Mr G Syam Kumar, Assoc.Professor	B.B.M Raja sekhar
Mech	Sri V.Hari Kiran, Assoc.Professor	Rajana kishore (IV

		year)
MBA	Mr K Nooki Naidu, Asst.Professor	P Ravi (II Year )

**Women Grievance redressal committee:**

In-charge of the committee: Smt.CH.V Sridevi, Assoc. Professor

Department	Faculty co-ordinator	Student coordinators
CSE	Ms V.Suneetha	B Sunanda (IV YEAR)
EEE	Smt S.Sujatha Devi	U Kusuma Kumari (III YEAR)
ECE	Smt P. Raghava kumari	P.Tejaswi (IV year)
H&BS	Ms Mary Theresa	Ch. Pushpa latha (I YEAR)
Mech	Ms S.Anusha	Novadheep kour(IV year)
MBA	Ms P.Jyoshtna	Naga Jyothi, (I YEAR)

**SC/ST Grievance redressal committee:**

In-charge of the committee: Mr N.Swaroop,Asst.professor

Department	Faculty co-ordinator	Student coordinators
CSE	Mr.K Vara Prasad, Asst.professor	K Prasanth Kumar (III year)
EEE	Mr U.Anjaiah, Asst.professor	Ch Venkata Rao (III year)
ECE	Mr TP Naidu, Asst.professor	M.Himabindhu (IV year)
H&BS	Mr D venkata Rao, Asst.professor	M.Hari kalia (I YEAR)
MECH	Mr.M Sanyasi Naidu, Asst.professor	M tharu kumar (IV year)
MBA	Mr.G vara Eswara Bhaskar, Asst.professor	R.L.V.Ratnam (II year)

Grievances have been reported during the last four years.

Problem	Action taken
Digital library	Provided
Journal subscription	provided
No Wi-Fi facility	Provided
Ragging at college bus stop. Security required	provided
Additional buses are required	Provided

**5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?**

- The Principal constitute a Grievance committee to redress the grievances for all students and staff.
- The grievance cell composed of three people's senior faculty and principal.
- Any staff and students having a grievance, he or she shall make a representation to the committee directly or through the suggestion boxes provided in all the departments and principal's chamber.

- The convener of the grievance committee shall include such grievance as an item of the agenda in the next monthly meeting, unless the seriousness of the grievance warrants a meeting to be commissioned immediately.

**List of the committee members:**

Principal Dr. C. P. V. N. J. MOHAN RAO is acting as chairman of this committee

Department	Faculty co-ordinator	Student co-ordinator
CSE	Ms. V.Suneetha	B.V.S.S TeJa (IV Year) K.Anitha (IV Year)
EEE	Mr.G.Rajasekhar yadav	M.Pavani (IV Year) K.Chalapathi Rao (IV Year)
MECH	Mrs.V.Suma priya	A.Mrudhula (IV Year) B. Prasad (IV Year)
ECE	Ms. R.Ramya	Ch. Prasuna (III Year) K.Govind (IV Year)
MBA	Mr.K.Santhosh kumar	A.Srividya (II Year)

**5.1.12 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 Anti-Ragging committee maintains a strict vigil in the campus, at bus-stops and buses to prevent ragging. No major instances of ragging have been reported in the last four years. A few minor cases detected have been disposed off by the principal by counseling the students and involving the parents.

**The following committee has been constituted for the academic year 2015-16**

Sl. No.	Name of The Staff Member	Designation	Position	Contact Number
1	Dr. C. P. V. N. J. Mohan Rao	Principal	Chairman	9849147304
2	Mr. R.Prasada Rao	Asso.Professor	Member	9949666990
3	Mr .E.govinda	HOD – ECE,Assoc.Professor	Member	9640189549
4	Mr T.Srinivasa Rao	HOD – EEE,Assoc.Professor	Member	9963000511
5	Mr .G Bala Murali Krishna	HOD – Mech,Assoc.Professor	Member	9951460724
6	Mr P Rajasekhar	HOD – ECE,Assoc.Professor	Member	9848311188
7	Mr Ch Peddi Naidu	Librarian,Asst.professor	Member	9440179035
8	Mr V Sai Prasanth	HOD- MBA,Assoc.Professor	Member	9949614324
9	Mr. A Parayya	Professor,H&BS	Member	9440119323

10	Mr.S.Ganesh,	Mech, Asst.professor	Member	9505044972
11	Mr. K.Durga Rao	EEE, Asst.professor	Member	9705270878
12	Mr.U. Anjaiah	EEE, Asst.professor	Member	8187817912
13	Mr. B.Ramesh	Mech, Assoc. Professor	Member	9866921728
14	Mr. J.Kondababu	Asst.Professor,H&BS	Member	9704174474
15	Mr. B.Nandakishore	CSE, Asst.Professor	Member	7799667323

- Class representatives are the coordinators for anti ragging committee.

**List of the student coordinators:**

S.NO	NAME OF THE STUDENT	DEPARTMENT	Contact
1.	B.Sai charan	MECH	9491289864
2.	G. Murali krishna	MECH	7036611769
3.	A.Srinivas	MECH	8897562519
4.	Loka Sai	ECE	9959282931
5.	P.Sai Krishna	ECE	8790250832
6.	M R S. Snehitha	ECE	9014487974
7.	V.Prem kumar	ECE	9573889612
8.	B.V.K Mahesh	ECE	9160936230
9.	Ch.Prasuna	ECE	9063385755
10.	M.Jyothi	ECE	9490217822
11.	Vamsi	ECE	7036613893
12.	B. Naveen Kumar	CSE	9642558072
13.	Y.Ramanamma	ECE	9573044419
14.	B Sivateja	CSE	
15.	K.Prasanth Kumar	CSE	8106489572
16.	K.Dileep Reddy	EEE	9966357385
17.	V.Surya Teja	EEE	9553403507
18.	Vinay Kumar	EEE	7036395207
19.	jyothermai	EEE	9550763793
20.	P.Anil	MECH	9666382337



Problem	Action taken
<ul style="list-style-type: none"> <li>Seniors assigns their own work to juniors (Assignment writing and record works)</li> </ul>	<ul style="list-style-type: none"> <li>Counseled the senior students by class teacher and H.O.D</li> </ul>
<ul style="list-style-type: none"> <li>In hostel seniors asking some students to give treat in the occasion to got seat in this college.</li> </ul>	<ul style="list-style-type: none"> <li>Formed hostel committee to avoid such type of cases by 10 student coordinators and 4 floor in-charges along with the wardens.</li> </ul>
<ul style="list-style-type: none"> <li>Seniors calling to some juniors for ragging purpose in college buses and APSRTC buses.</li> </ul>	<ul style="list-style-type: none"> <li>Solved the problem by assigning the bus in-charges for college bus and spies in APSRTC buses.</li> </ul>
<ul style="list-style-type: none"> <li>In buses and college canteen seniors not offering seats to juniors.</li> </ul>	<ul style="list-style-type: none"> <li>Formed a Canteen committee to avoid such type of cases by 6 student coordinators and two faculty coordinators along with canteen in-charge.</li> </ul>

**5.1.13 Enumerate the welfare schemes made available to students by the institution.**

- Free medical aid on the campus.
- Scholarships to the economically backward students.
- Supporting facilities for getting Educational Loans.
- Comprehensive placement training
- Insurance for students

**5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?**

**YES.**

The alumni association meets every year in the college campus.

The main activities are:

- To arrange interactive sessions with the students of present batch and to provide counseling.

- The alumni help in bringing industries and companies for campus placements and provide employment opportunities to the students.
- As few members of the alumni are entrepreneurs, they play an important role in motivating the students to become entrepreneurs.

## 5.2 Student Progression

**5.2.1 Providing the percentage of students progressing to higher Education or employment (for the last four batches) highlights the trends observed.**

Student progression	Academic Year			
	2014-15	2013-14	2012-13	2011-12
UG to PG	9%	18%	10%	8%
PG to M.Phil.	0	0	0	0
PG to Ph.D.	0	0	0	0
Employed Campus selection	25%	28%	31%	46%
Other than campus recruitment	18%	27%	42%	39%

**5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.**

Course	2014-15	2013-14	2012-13	2011-12
B.Tech(ECE)	73%	73%	76%	76%
B.Tech(EEE)	55%	75%	72%	70%
B.Tech(CSE)	72%	72%	74%	68%
B.Tech(ME)	86%	71%	96%	92%
MBA	pursuing	93%	97%	100%
M.Tech(CSE)	----	47%	75%	62%
M.Tech(VLSI)	---	31%	60%	88%
M.Tech(DECS)	---	----	----	----
M.Tech(PS)	-----	-----	----	-----
M.Tech(PE)		57%	-----	-----

**5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?**

YES

**CARRIER GUIDENCE CELL & PLACEMENT COMMITTEE:**

In-charge of the committee: T.SrinivasaRao

S.No	Faculty Coordinator	Designation	Student Coordinators	Department
1.	T.Srinivasa Rao (Assoc.Professor)	TPO	-----	-----
2.	Sri MV Ramana Murthy	Professor Incharge	-----	EEE
3.	N.V.Ashok umar(Asst.Professor)	CSE	A.Prasanna Krishna M.Uday kumar	CSE
4.	P.Ashok Kumar,(Asst.Professor)	ECE	N.Sireesha Rani M Pulla Rao	ECE
5.	P.Aneel Kumar (Asst.Professor)	EEE	D.Sanjay P.Ravi kumar	EEE
6.	V.HariKiran. (Asst.Professor)	MECH	P.Anil kumar G. murali krishna	MECH
7.	B.Prasanth. (Assoc. Professor)	MBA	T.Sai Krishna L.Laxman kumar	MBA

- A Carrier Guidance Cell is developed with one TPO, one professor In-charge along with 5 teaching faculty coordinators.
- All the coordinators are interacted with the students; based on their interest we can form the groups and making a path for their success according to their own interest.
- In past years the committee has been conducted GATE classes and Mock tests with the help of GATE FORUM & GATE WAY learning institutions.
- The committee has been conducted CRT classes with the help of JKC and Inter institutional faculty.

#### **5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?**

- Identified the slow learners and conducted remedial classes.
- Remedial classes are made part of the regular time-table for the analytical subjects in UG programmes wherever there is scope.
- The main thrust of the remedial classes is close interaction of students with faculty, where the students get their individuals doubts are clarified.
- Special classes after regular college hours are conducted in those subjects where some students are not able to cope with.
- Separate counseling is made to build the confidence in them and to concentrate on studies.

### **5.3 Student Participation and Activities**

#### **5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.**

Institute encourages the students to participate in various competitions:

S.No	Name of the Student	Name of the Ward/Prize	Name of the University/Institution
2015-16			
1	D.Teja III MECH	Published his project named Retardation Of Jet Planes On War Ships in SS International Journals in 2015	
		Participated in all India junior scientist competition at MANIT BHOPAL and the only project selected from Andhra Pradesh and had became a member of HEAM in DEC 2015	MANIT BHOPAL
		First prize(PPT)	Umang.Engg college .
		First prize(PPT)	VITS Engg college.Visakhapatnam
2014-15			
1	T.Samatha	First prize(essay writing)	District wise Jaiho mahila compitations in AKP,visakhapatnam
2	D Teja III MECH	First prize(PPT)	Gayatri eng college,visakhapatnam
	D Teja III MECH	Best paper Award	KL university March 2015.
2	S.H Maithili	Third prize(debate)	District wise Jaiho mahila compitations in AKP,visakhapatnam
3	K.Ajay Y.Raju M.Karthik H.Ramesh	First prize(Robotics)	NIT Warangal
4	R.Anil Kumar P.Chatanya Prabhu	Second prize(PPT)	NIT Warangal
5	R.Jevan P.Raj Kumar	Second prize(PPT)	NIT Warangal
6	Saroj kumar Bishwas kumar	First (PPT)	AIET ,Tagarapuvalasa
2013-14			
1	Saroj kumar Bishwas kumar	Second prize(PPT)	Miracle college, Vizianagaram
2	Saroj kumar Bishwas kumar	Second prize(PPT)	Chaitanya college, Visakhapatnam
2012-13			
1	K Santhosh GVS Tejaswi	First prize(PPT)	Goa University, Goa



	Manikanta Guna Sekhar		
2	Ch Shanmukh	Second prize(Tug of war)	Vignan Engg College, Visakhapatnam
3	Ch Shanmukh	Second prize(Tug of war)	Visakha Engg College, Visakhapatnam
4	P.Geetha Praveen G. Manoj Kumar	Second prize(PPT)	Avanhi Group,visakhapatnam

The college has a large play grounds for games like cricket, football, basket ball, volley ball etc., with all modern facilities. A qualified Physical Director Mr.T.Balaji with M.P.Ed qualification is available along with adequate supporting staff.

### Sports facilities available in the college

S.NO	LIST OF SPORTS	NO.OF COURTS
<b>Outdoor Facilities</b>		
1	Cricket Ground	01
2	Cricket Net Practice Pitch	01
3	Foot Ball ground	01
4	Basket Ball court	01
5	Volley ball court	02
6	Shuttle Badminton court	04
7	Kho-Kho	01
<b>Indoor Facilities</b>		
1	Chess	06
2	Caroms	03

### ACADEMIC CALENDER FOR SPORTS IN 2014-15:

Sl. No	Name of the Event	Date of Selections	Venue of Selections & Details of the Organizing Secretaries	Dates of Tournament
1.	Events for Engineer's Day	5 <sup>th</sup> Sep,2014	Avanhi institute of Engineering and Technology, Makavarapalem	7 <sup>th</sup> -14 <sup>th</sup> Sep,2014

2.	<b>Gymnastics (M &amp; W)</b>	<b>29<sup>th</sup> Nov, 2014</b>	University College of Engineering (Autonomous) Kakinada, Kakinada Sri. G. Syam Kumar, Asst. Prof in Physical Education, Ph. No: <b>77025 94555</b>	LNIFE, Gwalior  15-12-14 to 19-12-14
3.	<b>Kabaddi (M)</b>	<b>29<sup>th</sup> – 30<sup>th</sup> Nov, 2014</b>	University College of Engineering (Autonomous) Kakinada, Kakinada Sri. G. Syam Kumar, Asst. Prof in Physical Education, <b>Ph. No: 77025 94555</b>	VELS University, Chennai  20-12-14 to 30-12-14
4.	<b>Ball Badminton (Men)</b>	<b>30<sup>th</sup> Nov, 2014</b>	Sri Vasavi Institute of Engg & Tech, Nandamuru , <b>Krishna Dist</b> M. Chenna Kesava Assist. Prof in Physical Education <b>Ph. No: 94903 99310</b>	SRM University, Chennai, T.N.  20-12-14 to 24-12-14
5.	<b>Ball Badminton (Women)</b>	<b>1<sup>st</sup> Dec, 2014</b>	Sri Vasavi Institute of Engg & Tech, Nandamuru , <b>Krishna Dist</b> M. Chenna Kesava Assist. Prof in Physical Education <b>Ph. No: 94903 99310</b>	B.S. Abdur Rahman University, Chennai 26-12-14 to 30-12-14
6.	<b>Weight lifting, Power lifting (M &amp; W) &amp; Best Physique (M)</b>	<b>3<sup>rd</sup> – 4<sup>th</sup> Dec, 2014</b>	Chirala Engineering College, Chirala Sri. K. Srinivasa Rao Asst. Prof in Physical Education, <b>Ph. No: 99124 64077</b>	PTU, Jalandhar  22-12-14 to 28-12-14
7.	<b>Boxing (M &amp; W)</b>	<b>4<sup>th</sup> Dec, 2014</b>	RK College of Engineering, <b>Kethanakonda</b> , Krishan Dist P. Ravi Kumar Assist. Prof in Physical Education <b>Ph. No: 73820 78149</b>	Lovely Professional Unviersity, Punjab 3-02-15 to 10- 02-15 (Men) 28-01-15 to 01- 02-15 (Women)
8.	<b>Basketball (M)</b>	<b>5<sup>th</sup> Dec, 2014</b>	Usha Rama College of Engg. & Tech., <b>Telaprolu</b> , Krishna Dist P. Abel Kumar Assist. Prof in Physical Education	Sathyabama University, Chennai 03-01-15 to 10-01-15

			Ph. No: <b>93475 34682</b>	
9.	<b>Air Rifle Shooting (M &amp; W)</b>	<b>6<sup>th</sup> Dec, 2014</b>	VR Siddhartha Engg. Coll., <b>Vijayawada</b> , Krishna Dist Y.V.R. Krishna Prasad Assist. Prof in Physical Education Ph.No: <b>98495 77492</b>	Punjabi University, Patiala  02-01-15 to 06-01-15
10.	<b>Hockey (M)</b>	<b>7<sup>th</sup> Dec, 2014</b>	RK College of Engineering, <b>Kethanakonda</b> , Krishna Dist P. Ravi Kumar Assist. Prof in Physical Education Ph. No: <b>73820 78149</b>	Anna University, Chennai
11.	<b>Yoga (M &amp; W)</b>	<b>8<sup>th</sup> Dec, 2014</b>	Sri Vasavi Engg. Coll., Tadepalligudem B. Ram Gopal Assist. Prof in Physical Education Ph. No: <b>94402 12188</b>	SRM University, Chennai  10-02-15 to 13-02-15
12.	<b>Badminton (M &amp; W)</b>	<b>9<sup>th</sup> Dec, 2014</b>	University College of Engineering (Autonomous) Kakinada, Kakinada Sri. G. Syam Kumar, Asst. Prof in Physical Education, Ph. No: <b>77025 94555</b>	Bharathiar University, Coimbatore  26-12-14 to 29-12-14
13.	<b>Volleyball (W)</b>	<b>10<sup>th</sup> Dec, 2014</b>	University College of Engineering Vizianagaram, Dr .G.P. Raju, Assist. Prof in Physical Education  Ph. No: <b>98497 77784</b>	University of Madras, Chennai
14.	<b>Tennis (M &amp; W)</b>	<b>14<sup>th</sup> Dec, 2014</b>	Raghu Engineering College, Visakhapatnam  G.Ch. Suryanarayana Raju Asst. Prof in Physical Education, Ph. No: <b>94406 49945</b>	Saveetha University, Chennai  5-01-15 to 08-01-15 (W)
15.	<b>Kho-Kho(Men &amp; Women)</b>	<b>8<sup>th</sup> &amp; 9<sup>th</sup> of April 2015</b>	JNTUHCEH Inter Collegiate Central Zone Tournament	JNTUH College of Engineering, Kukatpally, Hyderabad.

16.	Ball Badminton(men)&chess(men &women)		JNTUH College of Engineering Sultanpur,sangareddy,medak(dist)	6 <sup>th</sup> &7 <sup>th</sup> April 2015
17.	<b>Shuttle Badminton (M &amp; W) Table tennis</b>		JNTU Jone a inter collegiate meet at VNRVJIT	8 <sup>TH</sup> MARCH 2015
18.	<b>Throw ball Basket ball Volley ball</b>		JNTU Jone a inter collegiate meet at HITAM	10 <sup>th</sup> &11 <sup>th</sup> March 2015

**Intercollegiate / Inter-Engineering Tournament arranged** No. of Students of the college represented in State/University team

Academic Year	No. of students represented
2015-16	05
2014-15	21
2013-14	25

**5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.**

### SPORTS & GAMES ACHIEVEMENTS 2015 – 2016

S.NO	Name	Class	Represented in
1	Mr Murali	III Mech	Made her debut through Selection for J N T U, Kakinada, South Zone Inter University Sports Meet Aug 2015 in Boxing meet at Vijayawada to be held at University of Haryana, Punjab.

### SPORTS & GAMES ACHIEVEMENTS 2014 – 2015

S.NO	Name	Class	Represented in
------	------	-------	----------------

1.	Mr Vamsi Mr sunny Mr Praveen Mr praveen	II Mech	The team representted in JNTUK Athletics meat 4*100m relay run and one bronze medal
2	Mr Murali	II Mech	He is represented in JNTUK Athletics meat 5Km Run and one silver medal
3	Mr Charan	II Mech	He is represented in JNTUK Athletics meat 100mts Run and one silver medal
4	Ms sukanya	I CSE	She is represented in JNTUK Athletics meat shot put .
5	Ms Sambhavi Ms Sukanya Ms Ramya Ms Bhagya	I CSE I CSE III ECE IICSE	The team representted in JNTUK Athletics meat 4*100m relay run
6	Ms prasanna Tulasi	I ECE	She is represented in JNTUK Athletics meat 1500mts&800mts

### SPORTS & GAMES ACHIEVEMENTS 2013 – 2014

S.NO	Student Name	Class	Represented in
1	K.Jaya swathi	IVECE	Won 400m run silver medal& 800run bronzmedal,4*400m relay run bronze medal
2	B,Sridevi	IVCSE	High jump-bronze medal ,1500run-bronzemedal,4*400relay run-bronze medal
3	N.Sravani	IVCSE	4*400relay run-bronzemedal
4	G.Divya Kumari	IVCSE	4*400relay run-bronzemedal
5	P.Ramya	IVECE	100m run- bronzmedal,
6	R.Sravani	III MECH	1500m run-Silver medal
7	S.SnayasiNaidu	III MECH	1500m run-Silver medal,800m run – Bronzemedal,4*400m realy run-gold medal
8	N.VenuGopalswamy	IVECE	400m relay run-gold medal, He is represented as JNTUK kho-kho team
9	K.Rajesh Kumar	IVEEE	800m run-silvermedal,4*400nm realay run-gold medal
10	S.Charan kumar	IIMECH	4*100m realy run bronze medal
11	MD.Askhpak ali	IIIMECH	4*100m realy run bronze medal
12	D.Narendara	IIIMECH	4*100m realy run bronze medal
13	M.Praveen kumar	IIMECH	4*100m realy run bronze medal
14	B.VamsiKrishna	IMECH	4*100m realy run-bronze medal, he is represented as JNTUK Athlentics team, He is participated All-India inter university Athletics meet at Punjab university,patilala,Punjab state
15	S.Ramesh(captain)	IIIEEE	Our college team secured volley ball winners at JNTUK, Inter collegiate games(MEN)tournament 2013-14 was

**SPORTS & GAMES ACHIEVEMENTS 2012 – 2013**

S.No	Name	Class	Represented in
1	Mr.D.Dattatreya	Iyr MBA	Represented Open National Level Wado Karate Championship 2012 April. He won National Bronze Medal 60 Kgs Sparring Section at Hyderabad.
2	Mr. K. Johnson Varghese	III Yr B.Tech(IT)	Made him debut through selection for JNTUniversity,Kakinada, Inter University Sports Meet 2012 -13 December in Basket Ball game held at NTR Health University of Sciences, Vijayawada
3	Mr. D. Dattatreya	IIyrMBA	Represented Open Kenurey Nation Karate Championship, Nov, 2012 National Gold Medal 55 kgs sparing section at Kerala.
4	Ms. K. Jaya Swathi	III Yr B.Tech(ECE)	Made her debut through Selection for J N T U, Kakinada, South Zone Inter University Sports Meet December, 2012 in Kho-Kho game to be held at University of Calicut Malapuram, Kerala.
5	Mr. D. Rama Raju	IV Yr B.Tech(CSE)	Represented made him debut through Selection for J N T U, Kakinada, All India Inter University Athletics, tournaments, January, 2012 held at University of Kalyani, Kalyani, West Bengal.

**5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

The institute has a clearly set and defined mechanism of obtaining the feedback from the students and stake holders to improve the performance and quality of the institutional provisions. Following feedbacks are taken so as to assess attainment of Program Objectives and Program Education Objectives.

- Introducing Wi-Fi, Add on programs in curriculum conducting extra lab hours in academic calendar and proposed to buy new reference books and journals in library based on analysis of Semester End feedback from the students in curriculum
- From analyzed feedback of exit students conducted Extra classes for soft skills and coaching is given for competitive exams to get jobs as well as higher education.
- Facilitate advanced equipment in labs, Industry institution interaction facilities and extra guidance are provided based on the analysis of Alumni feedback

- Introduced group insurance, intercom facilities, e-cap software for maintaining academic works and enhancement leave provisions are provided based on Employers and parents feedback
- Increasing infrastructure in the campus, maintenance improvement of hygienic canteen and hostel accommodation, SMS alerts for absent students and college holidays are provided based on Parents feedback

**5.3.4 .How does the college involve and encourage students to publish materials like -----catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

- In charge of the committee: A.parayya
- List of committee members:

S.No	Name of the Staff	Designation	Department
1	Dr. C. P. V. N. J. MOHAN RAO	Principal	Chairman
2	D Naveen Kumar	Physical Director	Member
3	J Maheswara Rao	Physical Director	Member
4	M Kedareeswaa Rao	Asst. Professor	E.C.E
5	M V S N Murthy	Asst. Professor	C.S.E
6	V Durga Ganesh	Asst. Professor	C.S.E
7	G Tataji	Asst. Professor	C.S.E
8	J Dileep Kumar	Asst. Professor	E.E.E
9	G Krishna	Asst. Professor	
10	J Konda Babu	Asst. Professor	S&H

**STUDENT CO-ORDINATORS:**

S.NO	Co-ordinator	Department
1	P. Diwakar	ECE
2	B N Susmitha	
3	D.Sanjay	EEE
4	G.Jyothirmai	
5	J.Hari Krishna	CSE
6	B.Sunandha	
7	P.Anil kumar	Mech
8	p. chaithanya prabhu	

Academic Year	Total No.of publications
2015-16	25
2014-15	13

- College News letter every semester named “**AVANTHI SRAVANTHI**”
- College Magazine is initiated to be released from this academic year.
- Departmental News letter every bi-month Named

**EEE - AAVE**  
**ECE - PHRONOSIS**  
**CSE - NEWS HUNT**  
**MECH- PINNACLE**



### 5.3.5. Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, the college have a student council.

#### Selection of Student Council:

The topper, an average student and a academically weak student of each section are nominated as a class representatives who has more integrity with other students, for all the sections from First year to final year. Regular meetings are conducted by the heads of the departments to review the problems faced by the students.

#### Activities:

- Took active part in academic and technical activities for smooth functioning of the college.
- Organization of Add on Courses & Guest lecturers
- Workshops/seminars by Career guidance, training placement & various professional body activities can be done with the help of student council.
- Anti ragging & Social responsibility activities (NSS)



**Funding:** For cultural and technical activities college provides the funding depending upon the anticipated expenditure.

S.no	STUDENT CO ORDINATOR	DEPARTMENT
1	P Hima Bindu	ECE
2	B Ranjith Kumar	ECE
3	M Vinay Kumar	CSE
4	Ch Pavani	CSE
5	T Sai Ram	EEE
6	A Naga Babu	EEE
7	Shahbaaz khan	MECH
8	Ch. Tarun Kumar	MECH
9	B.Teja	H&BS
10	.G.Harish	H&BS
11	L Sravani	MBA
12	Subba Rao	MBA

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

Various committees are constituted with a senior faculty as Chairman to monitor the maintenance of academic infrastructure and facilities.

- Class Representatives
- Canteen Committee
- Hostel Committee
- Anti Ragging Committee
- Library committee
- Student Grievance cell
- Women's Grievance cell
- Career Guidance cell
- Entrepreneurship cell
- Training and Placement cell
- R&D Cell
- College Newsletter/Magazine Committee
- Medical and First Aid facilities
- Telecom
- Internet facilities
- Electrical Maintenance
- Work shop (IT & MECH)
- NSS
- Self learning facilities
- SC/ST welfare committee
- Fire & Safety committee
- Transport committee
- Water committee
- Sports committee
- Cultural Council
- Literacy Club
- ISTE Student Chapter

- IETE Student Chapter
- IEEE Student Chapter
- Departmental Societies / Associations

Chairman of various committees are empowered to take remedial steps for smooth functioning of the institution.

### 5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- Alumni committee has been formed with 9 alumni Student coordinators.
- In-charge of the committee **Mr.N.V.Ashok Kumar**

- **List of the alumni committee**

Name of the coordinator	Position
Mr.N.V.Ashok kumar	President
Mr P.Anil kumar	Joint-secretary
Ms Ch.V.Sridevi	Treasure
Mr Rahul	member
Ms S.Anusha	member
Ms V.K.Vardhini	member
Mr G.Rambabu	member
Ms K.Mounika	member
Mr V.Kumar	member
Mr Manoj kumar	member

- A Web page is provided for the details updation for alumni in our college website, and a group mail is created for alumni students.
- The formed Alumni body create a group mail of all the outgoing student and giving their ideas and opportunities for upcoming students
- Staff and the Heads of the Departments will maintain rapport with the Alumni
- Active alumnae come and address 3rd and 4th year students towards career development programmes.
- The former faculty of the institution is invited for annual day, traditional day, workshops of the relevant departments.
- Institution is providing industrial interaction to the student by visiting directly to the industries and for doing projects externally.
- To empower the technical knowledge in practical we are conducting add on courses by the industrial experts

## **Criterion VI: Governance, Leadership and Management**

### **6.1 Institutional Vision and Leadership**

**6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

#### **VISION:**

- To develop highly skilled professionals with ethics and human values

#### **MISSION:**

- To produce competent and highly motivated engineers and management professionals
- To encourage innovation and instill ethical practices
- To impart quality education with industrial exposure and professional training
- To exhort the spirit of professional beyond academic excellence

#### **Unique Characteristics of the college**

The College is located at Tamaram, Makavarapalem Mandal, Visakhapatnam District. It is 60 KM from Visakhapatnam. Most of the students seeking education in this college are from rural areas. The Mission statement prepared by the institution is more realistic and can be achievable. Distinctiveness of the college which helps the institution to achieve the mission is as follows:

- i) College is student centric which helps to understand how best the college can impart quality teaching and learning among the students.
- ii) Students are educated in their skill sets that are require for the present day employees to meet the challenges of the industry.
- iii) College provides traditional and e-learning opportunities for the students and faculty.
- iv) Student centric activities are given top most priority to improve their learning skills and comprehensive abilities.
- v) Providing good quality of learning facilities with better infrastructure.
- vi) Attention is paid to students to improve their communication skills by inspiring them to participate in various workshops.
- vii) Special focus on improvement of performance through systematic monitoring and upgrading all aspects of student-centric, teaching learning process.
- viii) Information about students attendance, performance is provided to the parents through class in-charge and necessary counseling is taken for the weak/non performing students.

### **6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

The strength of the institution is its highly supportive and participative management. The management is dedicated and highly committed for decentralization of academic and administrative activities.

- Governing Body, the policy making entity of the Institute, meets twice/thrice in an academic year and approves/ratifies the proposals/decision submitted/taken by the Member Secretary. The Governing Body also reviews the performance of the institutional activities done during the past. The budget for the current academic year also is deliberated and finalized.
- The Principal is the academic and administrative Head of the institution.
- Principal and Head of the Departments collectively design a calendar of activities and the same is monitored and implemented by various committees in which the students and faculty are the members.
- Both the Head and the faculty implement the plans and policies of the institution to achieve effective outcome.
- The top management approves the decision from the inputs from the student representatives, lab technicians, class incharges & HOD's
- The budget plans are made by governing body through various vendors' statements & comparisons statements are allocated.

The governing body of the college is the final decision making authority. The following are members of governing body.

S.No	Name of the member	Designation/ Role	Remarks
1	Sri M. Srinivasa Rao M.P	Chairman	Well Known Social leader, Experienced educationist, Sitting Member of Parliament, Anakapalli Constituency
2	Smt. M. Gnaneswari	Member	A reputed social worker, woman activist for redressal of woman grievances and Vice Chairman of Avanthi Group of Colleges
3	Smt. M .Nageswaramma	Member	An Agriculturist, Education promoter and Philanthropist
4	Sri N. Sai Ram	Member	Social Worker and Educationist
5	Dr.M. Priyanka	Member	Educationist, Youth Representative, and Medical Practitioner
6	I Sravan Kumar	Member	Social worker and Educationist

7	Regional Officer South Central Region, AICTE	Ex-Officeo Member	Official Member for scrutiny of proceedings
8	Dr. B Prabhakara Rao Professor in ECE Dept., UCEK, JNTUK, Kakinada	<b>Ex-Officeo Member</b>	Official Nominee Member for directions and auditing of decisions
9	Prof. Chandu Subba Rao Retd.Professor, Department of Physics. Andhra University, Visakhapatnam	Member	A well known experienced educationist, held various administrative posts in Andhra University, Waltair, Great Poet and human being
10	Dr.Ch.Diwakar Principal, ARTB, Bhogapuram.	Member	Senior Academician
11	Prof. S V J Swamy Department of Chemistry, Avanthi Institute of Engineering and Technology, Makavarapalem.	Member	Experienced faculty member of this college, holds good understanding of student psychology, represents student grievances
12	Dr. C P V N J Mohan Rao	Member Secretary	Principal
13	Request has been made	Member	

**Quality Policy:**

Dedicated to impart quality education and training leading to degree in “Engineering and Management” and aims at being a worldwide institution through constant improvement of its educational ability and competence of the quality management system. The quality policy is communicated and understood by top management, teaching and non teaching staff within the institute and is reviewed for long-lasting appropriateness.

**Quality Objective:**

- Conformity to the regulatory requirements of AICTE, UGC, JNTUK, Govt. of Andhra Pradesh.

- Improving teaching facilities through addition of new teaching methods and equipment.
- Encouraging the faculty to improve their knowledge by upgrading the academic qualification, interaction with industry through seminars, educational tours, visits, etc.
- To measure student satisfaction level periodically through student feedback reports, student placements through campus interviews and overall success in university examinations.
- Monitoring quality management system to make sure earliest remedial action in the event of any non-conformity. The management is committed to these quality objectives and also ensures that they are known, understood and implemented by all the members of the institute.

### **6.1.3 What is the involvement of the leadership in ensuring?**

- **The policy statements and action plans for fulfillment of the stated mission**
- **formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
- **Interaction with stakeholders**
- **Proper support for policy and planning through need analysis ,research inputs and consultations with the stakeholders**
- **Reinforcing the culture of excellence**
- **Champion organizational change**

The management of the College initiates the faculty to plan various activities in the day to day functioning of the college to achieve the goals & objectives of the college. The principal will coordinate all these activities with the help of heads of the departments. The faculty members have to take active participation in implementing various quality improvement plans and programmes. The policy statements and action plans are formulated after careful consideration of all by the management. The management takes the inputs from the stake holders to satisfy the need of industries, society etc.

The principal follows strategic plan and ensures that every teaching and non teaching staff have active involvement in the development of students.

The stake holders are

#### **Students:**

- Students feedback is considered to introduce innovative teaching and learning methodologies.
- Students input will help to introduce the elective courses to meet current trends.

#### **Alumni:**

- Alumni are the focus group because their success is a measure of the long-term success of our program.

- Alumni feedback helps in curriculum design to meet recent trends in engineering.

**Industry:**

- Industry feedback is necessary to meet the gaps between program and industry.
- Students are trained for not only technical roles but also for leadership.
- Industries conduct workshops to create awareness on emerging technologies among the students.

**Faculty:**

- Faculty members involve in various committees to ensure the smooth running and consistency of the program.
- Faculty members provide inputs for designing the program, PEOs/POs establishment, course objectives and assessment.

**Management:**

- Management maintains coordination among all the stake holders of the institute.

**Parents:**

- Expect their wards to settle in good professional career and pursue higher education.

College academic committee conducts a meeting and frames the Quality policy, vision and mission statements. The Internal Quality Assurance Committee members of the programme frame the Program Educational Objectives (PEOs) and Programme Outcomes (POs). After that entire faculty defines the Course Outcomes (COs). Later these Course outcomes are mapped to POs and PEOs and the alignment with the vision and mission statements is verified.

From the feedbacks the stakeholders gives inputs and the same are been analysed to know the need base training/research required.

Internal stakeholders are exposed to world class information through our digital library, expert lectures, FDP, Working models done in the laboratory, projects etc.

**6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

Avanthi Institute of Technology and Engineering is committed to achieve global standards and excellence in teaching, research and consultancy by creating conducive environment in the fields of technological and managerial studies with professionalism and global outlook ensuring continuous improvement.

College is committed to continuous improvement and evolving modified strategies for the betterment of quality. The decisions taken by the appropriate regulatory bodies of the institution (Governing Body and College Advisory Committee) will be closely monitored by the respective committee for the implementation of decisions, noticing the challenges during implementation and suggesting suitable alternative actions.

The appropriate committee will gauge the impact of the decisions and evaluates the effectiveness and devises plans and mechanisms for improvement from time to time. The respective dean with the coordinator concerned and committee takes up the task of monitoring and make submissions to the College Action Committee.

The Principal of the college, at the helm of the affairs, has complete autonomy to govern the institution within the purview of the rules and regulations framed by the government and affiliating university.

IQAC will conduct meeting before the commencement of academic year

Internal committees -

5 in 2012-13,

12 in 2013-14,

18 in 2014-15,

24 in 2015-16.

S.No	Name of the Committee	Outcome
1	Building and Hygiene Committee	Satisfactory
1	Sports Committee	Satisfactory
2	Cultural Committee	Satisfactory
3	Carrier Guidance and Placement Cell	Satisfactory
4	News Letter Committee	Satisfactory
5	Grievance Rederessal	Satisfactory
6	Women Grievance Rederessal	Satisfactory
7	SC/ST Grievance Rederessal	Satisfactory
8	Anti-Ragging Committee	Satisfactory
9	Sexual Harassment Committee	Satisfactory
10	College News Letter	Satisfactory
11	Sports Committee	Satisfactory
12	Transport Maintenance committee	Satisfactory
13	Electrical Maintenance Committee	Satisfactory
14	Equipment Maintenance Committee	Satisfactory
15	Internet Maintenance Committee	Satisfactory
16	Library Maintenance Committee	Satisfactory
17	Hostel Maintenance Committee	Satisfactory
18	Canteen Maintenance Committee	Satisfactory



19	Water Maintenance Committee	Satisfactory
20	R & D Committee	Satisfactory
21	Fire and Safety Committee	Satisfactory
22	Alumni Committee	Satisfactory
23	Internet Maintenance Committee	Satisfactory
24	NSS Committe	Satisfactory
25	IQAC	Satisfactory

### **6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

Top management and principal encourage the faculty in academic leadership by involving them in various activities/committees. The following are the people involved in the departments to monitor and enhance the standards.

1. HOD
2. Class in-charges
3. Lab in-charges
4. Project Coordinators
5. Industrial Visit Coordinators
6. Mentors/Counselors

Heads of the Departments are in-charge of executing the policies with little variation depending upon the quality of students and number of staff available in each department. Most of the staff are nominated to be the members of institutional committees like Transport committee, cultural committee, canteen committee, library committee, training and placement committee, etc., so that they can put forth their innovative ideas to achieve better results. Management and the Head of the Institution ensure that every staff member has a clearly defined role with specific duties and responsibilities. Under the leadership of the Principal, chairpersons of various committees & course co-coordinators are engaged in assigning, delegating, co-coordinating and communicating responsibilities to the staff members as per the established system. The responsibilities assigned to the teachers are conveyed to them in the periodical meetings/ reviews and by issuing personal letters to them.

### **6.1.6 How does the college groom leadership at various levels?**

The Principal involve all the staff members in all the activities of the college, by taking suggestions from the faculty and assigning them different tasks to complete.

- Senior staff members will be the coordinator of various committees and are given full autonomy in decision making.
- Assigning individual task to the faculty such as a role of examination In-charge, academic coordinator, etc. with which respective faculty will execute and improve their leadership qualities.
- Individual roles will be assigned to faculties at the time of conferences, symposiums, college events, workshops etc.

- Lab in charges will monitor the equipment and its conditions and will decide to place an order for new equipment/machinery in consultation with respective HOD .
- Faculty will also be given a role of project coordinator to monitor and guide the project work assigned to the group of students.
- Class teachers will be appointed as class in-charges on a periodical basis that wil represent the class on various issues, problems.

This way the college grooms leadership skills among human resources at different levels.

### **6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?**

The college grooms leadership at various levels as follows:

- For the effective implementation of the policies and plans, various committees are formed. For all the committees a coordinator and members are appointed from the faculty itself.
- These committees are given autonomy to work in their respective areas under the overall supervision of the Principal and within the set of policies and plans of the institution. This creates participative management, enhances decision making ability, gives recognition and brings about leadership qualities.
- Faculty members are made in-charges of various activities like NSS, Sports and Games, Cultural activities, etc. This will help the faculty members in developing management skills, coordination and cooperation, creates responsibility with accountability.

Details of Various committees with Coordinators:

<b>S.NO</b>	<b>NAME OF COMMITTEE</b>	<b>NAME OF THE COORDINATOR</b>
1	Carrier Guidance and Placement Cell	T Srinivasa Rao, HOD-EEE
2	Sports Committee	P Gurunath-Physical Director
3	Cultural Committee	K Shiva-Physical Director
4	News Letter Committee	A Perayya, Assoc Professor, H&S
5	Grievance Rederessal	M V Ramana Murthy, Assoc Prof.EEE
6	Women Grievance Rederessal	V Suneetha, Assoc. Prof. CSE
7	SC/ST Grievance Rederessal	N Swaroop, Asst. Prof., CSE
8	Anti-Ragging Committee	Dr.C.P.V.N.J.Mohan Rao, Principal
9	Sexual Harassment Committee	V.Suneetha, Assoc. Prof. CSE
10	College News Letter	Dr.C.P.V.N.J.Mohan Rao, Principal
11	Building and Hygiene Committee	M V Ramana Murthy, Assoc Prof, EEE
12	Transport Maintenance committee	V Sai Prasanth, Assoc.Prof, MBA
13	Electrical Maintenance Committee	P.Rajasekhar Yadav, Asst.Prof.,EEE
14	Equipment Maintenance Committee	N Prakash Kumar, Assoc.Prof., MECH
15	Internet Maintenance Committee	V.S.Ram Prasad, Asst.Prof., CSE
16	Library Maintenance Committee	D.Lakshmi Narayana, Asst. Prof., ECE
17	Hostel Maintenance Committee	N Bhavani Sankar, Asst.Prof., Mech Engg

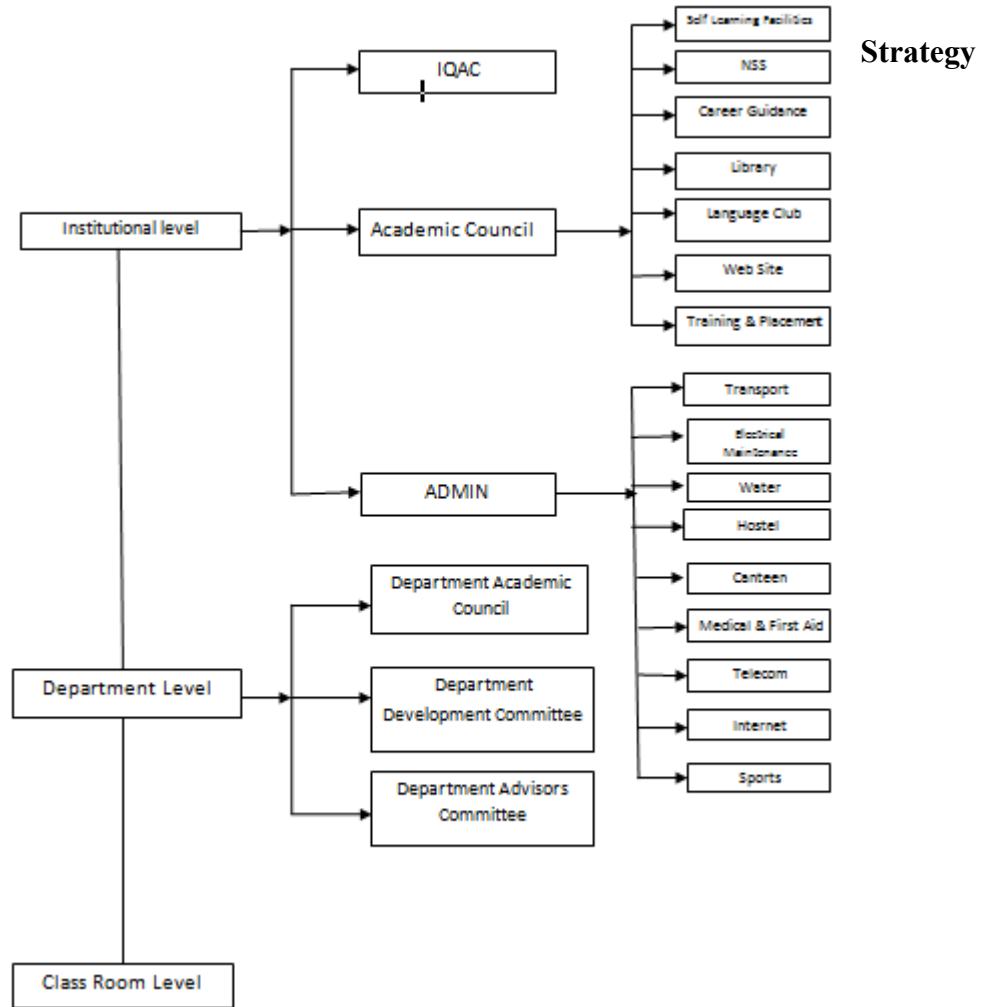
18	Canteen Maintenance Committee	R. Aneel Kumar, Asst. Prof., ECE
19	Water Maintenance Committee	P.V.S.Prabhakar, Asst.Prof., CSE
20	R & D Committee	Dr. Ch Srinivas, Professor, ECE
21	Fire and Safety Committee	D K A S Prasad, Assoc. Professor, EEE
22	Alumni Committee	N V Ashok Kumar, Asst. professor, CSE
23	Internet Maintenance Committee	V S Ram Prasad, Asst. professor, CSE
24	NSS Committe	P Rajasekhar, Asst. professor, H& S
25	IQAC Committe	Dr. Ch Srinivas, Professor, ECE

**6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.**

Yes, college promotes a culture of participative management through the following three levels

- i) At the classroom level: a committee which consists of a regular faculty and a faculty not concerned to the class and the active or bright students or student representatives. The lecturer in charge takes opinions of the students. They will be analyzed and give suitable recommendations to principal/HOD to take necessary decision.
- ii) At Departmental level: Departmental academic council, Departmental advisory committee and Department developmental committee perform their duties, the resolutions/feedback analysis made by them are brought to the notice of the IQAC and Principal so as to take the necessary action/ decisions.
- iii) At Institution level: IQAC, Academic council, administration committee functions for better function of college the levels of participative management in the college. The detailed schematic diagram is as shown below.

6.2



### Development and Deployment

#### 6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

“Avanathi Institute of Engineering and Technology is committed to impart quality education to meet the growing needs of their students on a continual contact basis. In doing so, we shall protect the interest of our students to prepare them to face the growing challenges and in turn serve the nation and society.”

The purpose was to create quality professionals (QP) in engineering and management education in order to meet industrial and social needs.

The QP is deployed by various means such as

- a) Providing awareness about the policy to all newly inducted faculty members and
- b) Prominently displaying on the walls of all offices, hostels and labs of the College.

The QP of the College is driven by making specific mention in all the meetings like orientation programme, cultural festivals, expert lectures, personal communications, etc.

The QP is reviewed periodically during the quality audit as well as outcomes emanating from deliberations/ discussions by senior faculty members and thinkers from time to time. It is open for all stakeholders to put up their opinion/suggestions for improvement of the QP. The information gathered from the students, parents and various committees on teaching–learning process, observing the industrial needs, factors needed for fulfilling the societal needs, etc. are also considered while reviewing the QP.

**6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

Yes, the institute has a prospective plan for development. The perspective institutional plan is developed by the Principal by consulting members of the management, Vice-principal and heads of various departments. The academic committee comprising the Principal, and heads of the department meets twice during each academic year. On the basis of the academic schedule, the Principal in charge of the academic committee prepares academic calendar for the academic year. This calendar includes a list of programmes and activities to be conducted. It is prepared in consultation with faculty and administrators; hence they are automatically involved in planning process. These plans are improved regularly to ensure the development of the institution.

The Institution has its own plan for growth and development. The visionary management is having a prospective plan to take it into higher levels by bringing it an autonomous status followed by Deemed university status.

**6.2.3 Describe the internal organizational structure and decision making processes.**

**Principal and Vice Principal**

The Principal and Vice Principal are involved in the implementation of the various plans of the college. They ensure that regular day to day operations are properly conducted, through feedback from conveners, teaching and nonteaching staff.

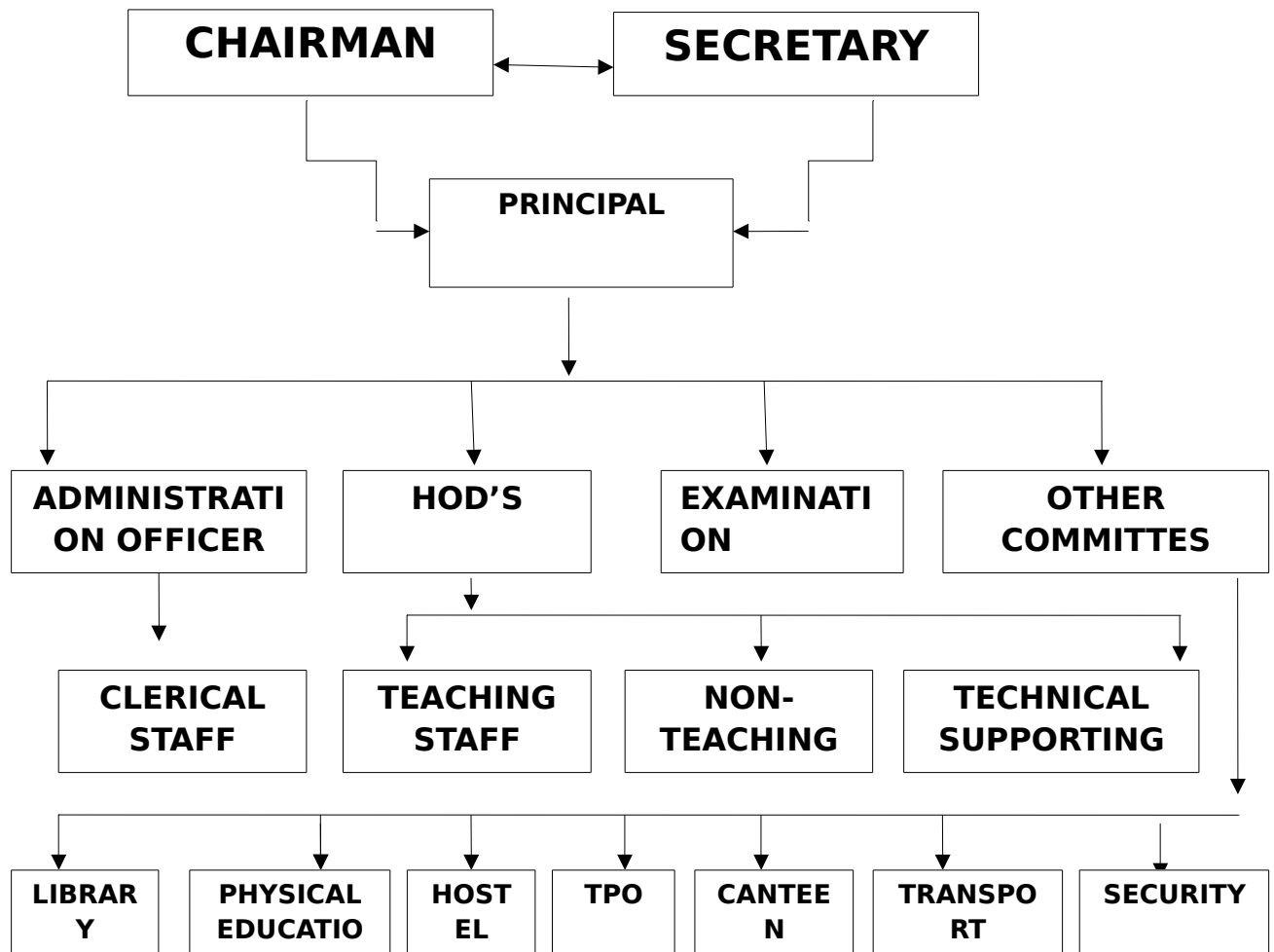
**Heads of Departments**

The Heads of Departments ensure that the plans communicated to them by the principal are implemented systematically.

**Committees for co-curricular and extra-curricular activities**

The committees are formed at the beginning of the year and are assigned the tasks according to the institutional plans, for the co- curricular and extracurricular activities that enhance overall development of the students. For the smooth conduct of all administrative activities according to requirements of academic bodies, there are committees headed by senior faculty to guide the function.

## Organizational structure



**Decision making Process:** Policy matters are decided in the governing body. Any requirements like equipment, text books, journals, furniture, personnel, etc. are proposed by the staff- in-charges of each department. All the requirements are discussed at the departmental staff meetings

Departments and the Principal will analyze the proposals based on the approved budgets of each department and they are procured by calling the quotations and making negotiations (instead of lowest quotation, importance is given to better quality, durability along with service facility). Student representatives of each department will represent their requirements to the Head of the Department concerned who inturn will discuss with the Principal and fulfill the requirements.

**6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following?**

**Teaching & Learning**  
**Research & Development**  
**Human resource management**  
**Industry interaction**

**Teaching & Learning:**

- The requirement of staff is assessed as per AICTE norms and staff is appointed through the staff selection committee.
- The staff members are exposed to Faculty Development Programmes.
- Staff members are guided to prepare the teaching notes and teaching methodology by Heads of the Departments and other senior faculty.
- All the teachers are exposed to use of LCD/DLPs.
- Students are motivated to be more regular to the class work and prepare subject wise notes.
- Students are imparted hands on training through laboratory experiments and industrial visits / training / tours.
- Knowledge gained by the students is assessed through periodical class tests, objective tests, mid examinations and laboratory tests, etc. Based on the assessment, the needy students are provided with additional teaching classes / bridge courses / laboratory classes, etc.

**Research & Development:**

- Number of faculty is registered as research scholars and there by considerable number of research papers being published.
- M.Tech students are groomed to produce technical papers and contribute for research activities.
- MBA students are encouraged for Internship in industries for practical exposure.
- Research proposals are submitted to AICTE for funding purpose.
- Advanced equipment is arranged in laboratories and take up R & D activity.

**Human resource management:**

- Transparent policy and scientific way of selections.
- Imparting related training.
- Formulation and communication of policies of the college. Support for academic advancement.
- Systematic performance appraisal system and guidance to the people concerned.
- Systematic promotion policies.
- Democratic way of administration with participative management.

**Industry interaction:**

- Learn from the Leader programs.
- Infosys Campus Connect.
- Industrial visits.
- Lectures/Talks by industry experts.

**Community engagement:**

Staff and students actively participate in community services such as

- NSS programs
- Blood donation camps
- AIDS awareness programs
- Other service activity proposed by State and Central Government.

**5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?**

The head of Institution takes required information (students /parents/staff) feedback to review the activities of the institution through

- Feedback from students in regular interval
- Suggestions from parents
- Daily Progress Report
- Any deficiencies and/or suggestions in the improvement of activities of the committees are updated.
- Alumni association recommendations
- Students performance and attendance review
- The Principal has a format for keeping track of all the activities taking place each day. These are to be read in consonance to the academic and event calendars.
- **Principal to the management:** The Principal takes up all the matters on regular basis with the management through Governing Body related to feedbacks from all stakeholders including students, parents, faculty members, non teaching staff, govt., civil administration, industries, affiliating university, professional bodies, etc. and discusses with the persons concerned as well as takes up with the management wherever deemed necessary. Most of the communication takes place through Principal's office. Again, both the items, i.e. keeping the management and departments informed about developments, regulating them and seeking approvals from management on specific issues are dealt very smoothly on email.

**6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

- The success of every institution depends on the quality of staff and their commitment towards achieving institutional vision and objectives. Hence, the management works with the faculty members hand in hand. The talent and potential of every staff member is recognized and honored. The management creates a healthy working atmosphere and even allows a participative decision making process where the staff members can present their suggestions or views in staff council meeting. All staff meetings have an open forum where the faculty members are asked to express their thoughts on the matters under discussion or on any other matter of concern. They are also encouraged to provide suggestions on academic matters to improve the standard or quality of education.
- Besides, each faculty is entrusted with additional responsibilities to take charge of one or two club /association activities. This ensures the active



involvement of the faculty members in ensuring effective development of co-curricular and extension activities for students. Every activity initiated are reviewed in the staff meeting and significant contribution from faculty are appreciated. As a token of encouragement, letter of appreciation is awarded to faculty members when their contribution is highly commendable.

AVANTHI plays a very vital role in bringing up the faculty forward to initiate and gain competitive edge through their personal involvement in many activities like

- Heading various committees at college level.
- Empowering the individual faculty through decentralized functioning mechanism.
- Great level of flexibility in academic administration to make decisions
- In designing the required training programs and updates it needs
- In preparing annual plans
- Freedom of action and decision
- Freedom of thought and expression
- Idea generation and implementation
- Providing feedback to determine the degree of the positive impact on any proposed activity by the department/college
- Formal/Informal gatherings with the Management periodically

**7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

- Working with the sole objective of maintaining high academic standards
- Providing career-oriented education in the most cost-effective manner.
- Good infrastructure
- Targeting excellent academic performance in university examinations and academic/co-curricular/extension activities.
- Focusing on the increase of placements
- Motivation and involvement of faculty in the promotion of innovative reforms.
- The teaching faculties are encouraged to find the gaps in the curriculum in-line with the technological developments. The gaps are filled by the eminent professors of reputed institutions
- The institute has got NBA Accreditation for all the under graduate programme during 2009-12. These courses were reaccredited by NBA in 2014 for the period 2014-17.
- Recognized by UGC under 2F and 12(B).
- Obtained permanent affiliation status from JNTUK.
- In the process of obtaining autonomous.

**6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?**

Yes.

There is a provision for according autonomy to affiliated colleges by the University. Process of applying for Autonomy is in progress.

- It has got NBA accreditation for all the under graduate programs (CSE, ECE, EEE, IT) in 2009 for 3 years (2009-12).
- It has obtained permanent affiliation status in 2012 for 3 years (2012 – 15).
- It has obtained UGC recognition under 2(f) and 12(B)
- The under graduate programs are re-accredited by NBA for 3 years in 2014 (2014 – 17).
- The JNTUK has given renewal for permanent affiliation status by 3 years in 2015 (2015 – 18).
- Now, the college is putting its efforts to get NAAC accreditation.

**6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

- The institution has a grievance redressal committee headed by the Principal which functions to address the grievances of Students, Faculty members.
- Suggestion boxes are placed at prominent locations in the Institute.
- Grievances are resolved and feasible suggestions are implemented.
- An ATM was arranged with the support of Indian Overseas Bank, Makavarapalem to cater the needs of students and faculty.
- For the benefit of day scholars APSRTC request bus stop has been arranged in front of the college for Express and Non Stop services.
- Library hours has been extended from 8.00pm-10.00pm for hostlers during the semester end examinations.
- Providing e-copies of NPTEL resources to the students.
- Arranged Passport Mela for the benefit of Passport seekers.

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

- Nil-

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?**

Yes, the institution has a mechanism for analyzing student feedback on institutional performance. The student is a primary stakeholder of the college it is increasingly important for institutions to ensure that feedback is collected effectively and used wisely. Feedback is taken from student on current semester courses and is also collected from alumni during the alumni meets.

- Feedback is collected from the students twice during the semester and the same will be communicated to the faculty and HOD of the respective department.
- Faculty members have to give an explanation in case of poor feedback from the students.

- Feedback provided by the alumni will be sent to Principal and management for necessary action.

### **6.3 Faculty Empowerment Strategies**

#### **6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?**

- Our institution recommends the proposals received from the faculty members who wish to join for part time PhD/M.Phil.
- The institution encourages the staff to attend the Conferences, workshops, Faculty Development Programmes & Training Programms etc and motivated to publish their work in journals.
- The college provides paid leave (O.D), and also provide T.A, D.A and Registration fee benefits to attend for Faculty development programs/ Seminars/ Refresher programmes/Orientation course.
- The teaching staff is permitted to attend faculty development programmes (FDPs) conducted within and outside the college.
- Staff members to enhance their professional knowledge by presenting and publishing the papers in national and international conference/ journals.
- Heads of the Departments will provide transparencies and CDs etc to prepare effective modern teaching techniques such as OHPs and LCDs etc.
- Non teaching staff is guided by the senior staff in the maintenance of the laboratories and handling the equipment.
- Skill development programs are conducted for teaching staff/non teaching staff to update their technical knowledge.
- Free bus facility to all teaching and non teaching staff.
- Free Internet and Wi-Fi @ 24hrs facility supporting to do paper publishing/student Project monitoring.
- Conducting seminars by Industrial experts, University professors, Scientists.
- Faculties are encouraged to attend service ratification interview being conducted by University. Necessary charges will be borne by the college.
- Ratified faculty gets increments.
- Class In charges/ Project Coordinators are appointed for the student care and improvement of the students.

#### **6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

- All staff members are encouraged to attend seminars / workshops/ Conferences /FDPs/Refreshers course/orientation course to keep in touch with latest theories and concepts on their subjects.
- Staffs who publish papers or who write books are informed through notices and notice boards.
- The institution announces appreciation letters to staff after submitting the annual appraisal form.
- Staff is permitted to go for Quality improvement programmes (QIP's).

- The institution conducts Skill oriented Training Programs for Teaching and Non-teaching Staff.

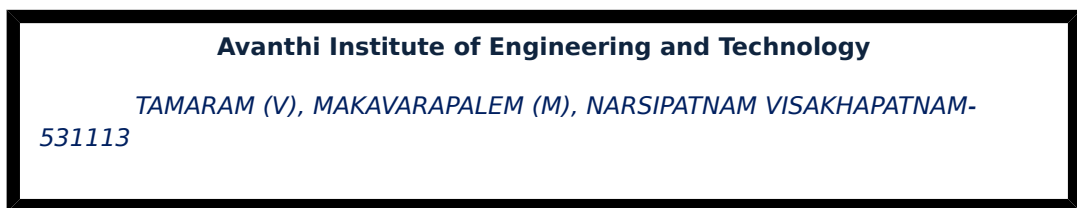
**6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.**

The institute provides **Performance Appraisal form** to all the teaching staff after the completion of the academic year. Based on different aspects the form has to be filled up and submitted to the Principal. After the discussion with the Principal/Head of the Department base on the marks the salary increments and incentives will be provided.

The following aspects are followed

- The subjects deled with result outcome.
- Attended FDP's/ conferences/ Workshops/Seminars in the academic year
- Responsibilities/Role taken care.
- Improvements taken and overcome from the previous year.
- Feedback from the students.

Sample Self appraisal of staff is taken in the following format and analyzed below:



**FACULTY ANNUAL APPRAISAL REPORT**

**for the academic year 20\_\_-20\_\_**

**FORM-A (To be filled by the candidate)**

**Name**

**Designation**

**Department**

**Present post held from**

**PRIMARY WORK**

**(Attach extra sheet where ever necessary)**

**1. Instructional work assigned**

<b>S.No</b>	<b>Year/Sem</b>	<b>Course code</b>	<b>Title</b>	<b>Total No. of Classes Engaged</b>	<b>Class Strength</b>	<b>Result (pass%)</b>

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

**2. Supervisory support provided:**

**a. M.E/M.Tech/M.S Thesis**

S.No	Name of the student	Date of Registration	Co-supervisor	Current status	Date of submission

**b. Project work at B.Tech/MCA/MBA Level**

S.No	Project Title	Organization/Industry	Batch Size

**3. Responsibilities Undertaken:**

**NCC/NSS/NSO/WARDEN/Guidance/Cultural/Counseling/Cultural/HOD/HOC/Dean\***

S.No	Position	Period	Remarks

\*special achievements, if any may be described on a separate sheet

**4. Activities Organised:**

S.No	Title	Duration	Major Sponsor	Level (International/National)	Remarks

**5. Research paper/Books published/Conferences/Articles/Monographs etc.,**

S.No	Title/Workshop	Author(s)	Journal/Conference details/Publisher	Level (International/National, Text/Reference Etc.,)	Mark yes, if referred

**6. 8Sponsored Projects/ consultancy:**

S.No	Project title	External funds received	Position	Sponsor	Date of commencement	Duration (Yrs.)	Status (completed/on going)

**7. Participation: (Seminars/ Workshops/ Conferences/Symposia/ Continuing Education program/ Training Etc.,)**

S.No	Title	Duration	Institution

**8. Overall self appraisal**

**I did my best during the academic year for the betterment of the students and the institution**

**Date**  
**Signature**

*Difficulties and suggestions with regard to academic assignments/slf growth to be given in an annexure*

**(To be filled by the Head of the Department)**

**ANNUAL APPRAISAL REPORT FOR THE ACADEMIC YEAR 20 -20**

**Name of the Faculty:**

**Designation:**

**I. Attitude and Interpersonal skills (give ratings on a five point scale with '5' being the best and '1' poorest):**

1	Initiative: a self starter: able to work without constant supervision	
2	Responsibility: understands duties: accepts responsibilities readily	
3	Punctuality: arrives on time, generally available for students during working hours	
4	Commitment: committed to his/her work	
5	Loyalty: supports and follows institute's policies and guidelines	
6	Development: keeps knowledge up to date	
7	Oral- communication: speaks effectively with supervisor, colleagues and students	
8	Written communication	
9	Team work: effective in team	
10	Leadership: gives clear directions and listens to co-workers	
11	Relationship with fellow faculty and staff	
12	Maturity	
13	Temperament	
14	Relationship with students	
	<b>Total</b>	

**II. Brief comments by the Head of the Department**

**III Remarks of Principal (if any)**

**Signature of the HOD**

**Principal**

**Signature of the**

**6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

- The names of the faculty members who show good performance are recommended to promote the designation.
- If any Faculty receives an award/ paper published /attended to international conferences, it will be circulated and displayed in the notice board.
- Based on the Performance Appraisal, increments are provided to deserved candidates and for the career advancement of the staff.
- Positions of some staff are elevated.
- Appreciation letters are given for certain achievements,.
- The achievements are announced to the concerned staff through letters or in staff meetings or college day celebrations.
- Principal /Hod's of each department will collect the appraisal from individual faculty.
- The committee will analysis the data collected and reported to the Principal . Principal also analysis the data submitted by the Hod's of each dept and take action by Principal/respective HOD's of the department.

**List of the committee verifies the self appraisal forms:**

S.NO	NAME OF THE FACULTY	DEPARTMENT
1	Dr. C.P.V.N.J.MOHAN RAO	Principal
2	Dr. M.PRIYANKA	Secretary, Avanthi Educational Society
3	I SRAVAN KUMAR	Management
4	E GOVIND	ECE
5	P RAJASHEKAR	CSE
6	T SRINIVASA RAO	EEE
7	V HARI KIRAN	Mech
8	V SAI PRASANTH	MBA
9	Dr M A RAHATMATULLAH	H&BS
10	R PRASAD RAO	Exam cell In charge

- The faculty members whose performance is not satisfactory are advised for better performance.
- A faculty who secures poor performance in any aspect, the concern HOD motivate for the improvement.
- Annual **increments** will be given to all the staff members as per the rules in force.
- Additional **incentives** will be given on performance basis such as results, activities, Professional society activities and publications etc., About 17 faculties are provided with such incentives during last academic year.
- **Promotions** will be considered as per the eligibility criteria for the respective post. As and when somebody acquire the qualification, by accepting an application scrutinizing and recommendations of the selection committee will be considered for higher level positions. Six such cases have been recorded during last academic year.
- **Training-** faculty possessing with required specialization qualifications will be considered for training. FDPs/ Workshops/Seminars/Conference invitations received from other colleges/Universities will be circulated among the faculties. Interested will approach the HOD of Concern Department and final selection will be made based on their specialization and seniority.



**6.3.5 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?**

- Additional increments are sanctioned to the deserving faculty to create a culture of commitment and attachment to the institution.
- Maternity leave provided for the lady faculty.

S.No	Name of the faculty	Department	Duration
1	P Sri satys	ECE	4 months
2	P Sudha Rani	CSE	4 months

- Paid leaves will be given for Marriage leaves.

S.No	Name of the faculty	Department	Duration
1	Sahitya Kiran	ECE	10 days
2	Kedareeswara Rao	ECE	10 days
3	T Pattalu Naidu	ECE	10 days
4	V VSatyanarayana	ECE	10 days
5	Ch Vara Prasad	CSE	10 days
6	N Duraga Rao	EEE	10 days
7	U Anjiah	EEE	10 days
8	Rajashekar Yadav	EEE	10 days
9	J Dileep Kumar	EEE	10 days
10	B Ramesh	MECH	10 days
11	V Hari Kiran	MECH	10 days
12	S Ganesh	MECH	10 days
13	B Nilesh	MECH	10 days
14	K Nooki Naidu	MBA	10 days
15	Santosh	MBA	10 days
16	E Roopa	MBA	10 days

- Free accommodation, power and water who are residing in the campus.

S.No	Name of the faculty	Department	Designation
1	S Daniel Raju	Administration	A O
2	Ravi shankar	Administration	Cashier
3	Markandeyulu	Administration	Transport
4	G Nagarjuna	Non Teaching	Technical support
5	P Naresh	CSE	Assistant Professor
6	N Bhavani Sankar	MECH	Assistant Professor

- Faculty members are deputed / sponsored for higher education by sanctioning study leave like Phd's

Sl. No	Name of the faculty	Department	Pursing
1.	T. Srinivasa Rao	EEE	Andhra University
2.	E. Govind	ECE	GITAM-University
3.	R. Prasad Rao	ECE	GITAM-University
4.	G. Bala Murali Krishna	MECH	Andhra University
5.	B. Ramesh	MECH	JNTU-Kakinada

- Fee concession is given to staff children in the college to the extent of 25% to teaching staff and 50% to non-teaching staff.

S.No	Name of the Student	Parent(Employee)	concession
1	L Rama Tulasi/ECE	L Nageswara Rao/ Lab Technician/Mech Engg/Non Teaching	Bus Fee

- Free transport is provided to all teaching and non teaching staff.

### 6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- The Management looks after the enhancement of salary to the dedicated faculty.
- Eminent faculties are promoted in their positions.
  - Since the development of good students depends on the quality of teachers, faculty members are given necessary encouragement to improve their competence in various areas.
- Deputing staff regularly for quality improvement Programmes (QIP), Seminars, Conferences, Workshops, summer and winter continuing education courses. For each faculty such opportunities will be provided.
- Registration fee is born by the institution.
- Structured pay scales are proposed for qualified faculties
- For the deserved candidates i.e. qualification with experience, depending upon needs of the faculty higher salaries are offered
- To attend for the workshops academic leaves are provided. Each faculty is provided with Eight academic leaves per year.
- Providing opportunity to involve in research & developmental activities of their choice in the department and at the Institutional level.
- Identifying teachers with special talents and competence and encouraging them by honoring them with the newsletters etc.
- Encouraging teachers to conduct training courses for personnel in Industries / Educational Institutions.
  - Providing various leave benefits such as:
    - Study Leaves
    - Casual Leaves
    - Maternity Leave
    - Senior faculty are encouraged for PhD Registration

#### List of Faculty availed facility for Reseaech:

Sl. No	Name of the faculty	Department	Pursing
1.	T. Srinivasa Rao	EEE	Andhra University
2.	E. Govind	ECE	GITAM-University
3.	R. Prasad Rao	ECE	GITAM-University
4.	G. Bala Murali Krishna	MECH	Andhra University
5.	B. Ramesh	MECH	JNTU-Kakinada

### 6.4 Financial Management and Resource Mobilization

**6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

- For every lab there will be a log register to monitor the usage of the equipment and students.
- Stock/ Consumable registers are place to monitor the repairs and periodic maintenance of the equipment.
- Stock verification verified by Lab In Charge and concern HOD the stocks at the end of the every academic year, identify the required / damaged / to be serviced articles. The concern Lab In Charge prepares the list of requirement to be purchased and serviced.
- Indents given by all the departments are evaluated and consolidated by the Management and Purchased by the HOD's/ Management with concern Lab in Charge.
- Every year the department places the budget to the principal. The principal collects from all the department and present the budget to management for the approval.

**6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

The accounts of the College are audited regularly as per the Government rules. The external auditor conducts statutory audit at the end of financial year. The report of external auditor of the last year along with audited Balance Sheet and Income & Expenditure account is enclosed. The last audit for the year 2014-15 was completed on May, 2015 and there were no major audit objections in the same.

Internal audit – Internal staff appointed by Principal

External – CA (financial), JNTUK

**NBA: COMMITTEE REVIEW**



## CHAIRPERSON EXECUTIVE SUMMARY

INSTITUTE NAME: Avanthi Institute of Engineering  
& Technology, Tamaram, Makvarapalem, Narsipatnam  
Revenue Division, Vishakhapatnam District 531113 AP

## PROGRAMMES :

1. UG - Computer Science & Engg
2. UG - Electrical & Electronics Engg
3. UG - Electronics & Communication Engg
4. UG - Mechanical Engineering
5. \_\_\_\_\_

VISIT DATES : 20<sup>th</sup> to 22<sup>nd</sup> June 2014

## 1. OVERVIEW

## 1.1 Visit Information

The visiting team of National Board of Accreditation (NBA) conducted a three day accreditation visit to Avanthi Institute of Engg & Technology to evaluate 4 programmes from Sr 1 to Sr No 4

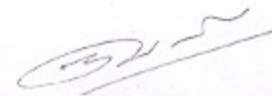
During the visit, the visiting team met with Head of the Institution/Dean Dr C.P.V.N.J. Mohan Rao. The briefing on the institution was given by Principal, Dr C.P.V.N.J. Mohan Rao and on programmes were given by the respective Head of the Departments/Programme Coordinators. The respective programme evaluators also visited the various facilities of the programmes. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meetings and interviews with all the stakeholders such as faculty, staff members, alumni, employers, parents and students.

contd-2

  
22/6/14

The visiting team of NBA comprised :

VISITING TEAM CHAIRPERSON	
Name: <u>Prof Mohan Umakant Deshpande</u>	
Affiliation: <u>Former Prof IIT Mumbai</u>	
Contact information: <u>101, Gandhi Nagar, NAGPUR-440010 Mob 9422306957</u>	
PROGRAMME TITLE WITH ABBREVIATION	
<u>UG - Computer Sc &amp; Engg</u>	
Programme Evaluator 1	Programme Evaluator 2
Name: <u>Prof Avijit Kar</u>	Name: <u>Prof V. Santha Kumari</u>
Affiliation: <u>Jadavpur University Kolkata.</u>	Affiliation: <u>D.T.E. Kerala</u>
Contact information: Phone: <u>09433099242</u>	Contact information: Phone: <u>09447890250</u>
E-mail ID: <u>dr.avijitkar@gmail.com</u>	E-mail ID: <u>santha41@gmail.com</u>
PROGRAMME TITLE WITH ABBREVIATION	
<u>UG - Electrical &amp; Electronics Engg</u>	
Programme Evaluator 1	Programme Evaluator 2
Name: <u>Dr (Mrs) Gayatri Agnihotri</u>	Name: <u>Prof Siddhartha Sen</u>
Affiliation: <u>Dept EE, M.A.N.I.T Bhopal</u>	Affiliation: <u>Dept of EE IIT Kharagpur</u>
Contact information: Phone: <u>09826600846</u>	Contact information: Phone: <u>09424039856</u>
E-mail ID: <u>gayatri@rediffmail.com</u>	E-mail ID: <u>ssen@ee.iitkgp.ernet.in</u>
PROGRAMME TITLE WITH ABBREVIATION	
<u>UG - Electronics &amp; comm Engg.</u>	
Programme Evaluator 1	Programme Evaluator 2
Name: <u>Prof Perwez Mustajab</u>	Name: <u>Prof Ramesh Garg</u>
Affiliation: <u>A.M.U. Aligarh</u>	Affiliation: <u>ECE Dept- IIT Kharagpur</u>
Contact information: Phone: <u>09410426810</u>	Contact information: Phone: <u>09775527045</u>
E-mail ID: <u>pmust57@gmail.com</u>	E-mail ID: <u>garg@ece.iitkgp.ernet.in</u>



PROGRAMME TITLE WITH ABBREVIATION	
UG - Mechanical Engg	
<b>Programme Evaluator 1</b>	<b>Programme Evaluator 2</b>
Name: <u>S. Mahdi Abbas Rizvi</u>	Name: <u>Prof Sachin P Untawale</u>
Affiliation: <u>A.M.U. Aligarh</u>	Affiliation: <u>D M I of Engg Tech Res Wardha</u>
Contact information: Phone: <u>09897826671</u>	Contact information: Phone: <u>08806226666</u>
E-mail ID: <u>mahdirizvi@yahoo.com</u>	E-mail ID: <u>untawale@gmail.com</u>
PROGRAMME TITLE WITH ABBREVIATION	
<b>Programme Evaluator 1</b>	<b>Programme Evaluator 2</b>
Name: _____	Name: _____
Affiliation: _____	Affiliation: _____
Contact information: Phone: _____	Contact information: Phone: _____
E-mail ID: _____	E-mail ID: _____

### 1.2 Previous Accreditation Details

Programme title	First accredited		Last accredited	
	Number of years / Grade	With effect from	Number of years / Grade	With effect from
1) UG CSE	2009	3yrs	This 2nd	Accred
2) UG EEE	2009	3yrs	do	do
3) UG ECE	2009	3yrs	do	do
		From 10.7.2009		

vide letter F.No, NBA / ACCR / - 1094 / 2008 dated 14/7/2008



1.4 Summary of findings

CSE

Programme Title 1 :  
Strength:

Periously accredited,  
focus on power control  
Dedicated and sincere faculty.  
Many students going to higher studies  
Teaching learning focus ok

Concern:

Large Intake since 2009  
Competition from nearby colleges  
Location away from major  
IT Hubs



Weakness:

Awareness regarding PEOPO  
not yet percolated down

Affiliated University brings  
rigidity to Academic Processes  
Regional issues & Requirements  
not reflected in R&D effort  
More Commercial softwares  
needed  
Standard of QP of Sessionals  
not sufficiently challenging

Deficiency:





Programme Title 2 :  
Strength:

1

EEE

Adequate Infrastructure

Labs as per curriculum  
of affiliate University

good response from students

Some Commercial software  
available to students.

Concern:

~~the~~ PO/PEOs appreciation  
among many stakeholders

No of Multimedia fitted class  
rooms

Declining trend in student  
response noted

Quantum of faculty involvement  
especially at junior level low



Weakness:

No of Research publications  
& IPR low

Experienced middle level  
faculty proportion low,

No of scholarly journals  
& recently published Text  
and reference books  
appear to be less than needed

Deficiency:



MECH

Strengths:

Good Infra structure

Proactive leadership

Young & enthusiastic faculty

Major public sector &  
Defense Industries in vicinity

Concerns:

attracting & Retaining  
qualified and experienced faculty  
who could impact R&D effort

on campus housing for  
beyond working hours and  
beyond syllabus academic  
involvement

  
22/6

Weakness:

Rapport with nearby steel plant and Naval Science labo to ensure their involvement in minor projects and R&D efforts.

Faculty awareness of linkup laboratory work to requirements of industry at all India level.

Deficiency:

 22/6/11

Programme Title 3 :  
Strength:

~~Computer Science & Design~~  
Electronics & Communication Engg

Adequate labs

Young & sincere faculty

Industry visits , implant training  
in place

Problem solving emphasis  
in Teaching learning process

Concern:

PEO/PO appreciation  
not percolating down the  
line amongst some of the  
stake holders

Lack of sufficiently experienced  
middle level faculty for  
evaluation of PEO/PO achievements

**Weakness:**

Faculty retention in the  
rural location of college  
No Faculty Housing on campus.

level of performance of good  
Students not leading to Ranks  
in University.

Less no electives in  
in modern Communication,  
EM fields.

**Deficiency:**



**6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

The College runs on self financed basis. It does not receive any grant from the Government. It solely depends on the tuition fees collected from the students.

The details of fees and other revenue for last four years are as follow:

• **Table :6.2 Details of Fees from Self-Financed Section**

Academic Year	Revenue in 2015-16	Revenue in 2014-15	Revenue in 2013-14	Revenue in 2012-13	Revenue in 2011-12
Tuition/JN TU/ Admin/ Bus Fee	8,90,727,08	102,901,551	102,163,143	117,197,453	92,465,453

**6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

No such funding had received by the college till date.

**6.5 Internal Quality Assurance System (IQAS)**

**6.5.1 Internal Quality Assurance Cell (IQAC)**

**a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

**QUALITY POLICY**

Yes, the IQAC was established on **5th june, 2013**, prior to IQAC ,academic council looks after quality sustaining activities.

The IQAC committee members:

S .NO	Name	Designation	Status in IQAC	Methodology/ Functions
1	Dr. C.P.V.N.J.MOHAN RAO	Principal	Chairperson	Supervision
2	Dr. M.PRIYANKA	Management	Member	Suggestions, Financial support
3	I.SRAVAN KUMAR	Management	Member	Suggestions, Financial support
4	E.GOVIND	HOD(ECE)	Member	Prepares Action plan of various quality activities of the college in the year

5	P. RAJASHEKAR	HOD(CSE )	Member	Encouraging the Organisation of seminars, workshops, FDPs, etc and its documentation
6	T.SRINIVASA RAO	HOD(EEE )	Member	Organization of Add-on courses/certificate courses of the departments& Supervises the documentation
7	G.BALA MURALI KRISHNA	HOD(Mech)	Member	Organization of Industrial visits, project works, out reach programmes of departments& Supervises the documentation
8	V.SAI PRASANTH	HOD(MBA)	Member	Organization of co curricular activities such as student seminars, quiz's, elocutions Buzz sessions and modern teaching activities for quality enhancement &Supervision, documentation
9	G SYAM KUMAR	HOD(H&BS)	Member	Collection of Feed back from various agencies and their analysis
10	R PRASAD RAO	Senior Faculty, Exam Cell In Charge	Member	Motivation towards Research, encourages to attend seminars, Research sharing and networking with other institutions, applying for research funding &Supervision, documentation
11	A.PERRAYA	Senior staff, NSS Coordinator	Member	Training and placement activities
12	NIL	Nominees from local society	Member	Support in the development of infra structure

It is performing the following functions:

- It helps the college in planning and monitoring. Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programmes



- Equitable access to and affordability of academic programmes for various sections of society.
- Optimization and integration of modern methods of teaching and learning.
- The credibility of evaluation procedures through credit books.
- Ensuring the adequacy, maintenance and functioning of the support
- Research sharing and networking with other institutions
- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the institution.
- Organization of workshops, seminars on quality related themes and promotion of quality circles.
- Documentation of the various programmes / activities leading to quality improvement.
- Organizing the eco-friendly activities in the college like plantation, NSS, Swach Bharat, Etc.,
- Encourages to organize co-curricular activities like sports day, Fresher's day, Annual day.
- Encourages the research activities in the college through R&D committee.
- Promotion of the quality of education, ward counseling system and monitoring the progress of the students.
  - Monitor regular academic audits of the departments by academic audit committee.
  - Obtaining feedbacks from all stake holders on curriculum, infrastructure facilities, performance of teachers and departments.
  - Ensures that the procedures are strictly followed in all quality enhancement activities.

**b. how many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?**

No. of decisions discussed	No. of decisions implemented
1. Solar Power 2. Water harvesting & waste water management 3. Green audit 4. Development of infrastructural facilities 5. Improvement in Hygienic facilities in canteen 6. Development of E-learning resources 7. In-house medical facility 8. Rampage for physically challenged persons 9. Upgrading of gymnasium	<ul style="list-style-type: none"> <li>• 1. Facility to cricket net practice</li> <li>• 2. Development of E-learning resources</li> <li>• 3. Departmental libraries</li> <li>• 4. Conference hall</li> <li>• 5. Departmental professional clubs</li> <li>• 6. At least 2 guest lectures by every dept.</li> <li>• 7. Conference hall</li> <li>• 8. Digital Library</li> <li>• 9. Departmental Libraries</li> <li>• 10. ATM Facility</li> </ul>

**c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.**

No

The IQAC doesn't have any external members. But it is planning to include members in its committee.

**d. How do students and alumni contribute to the effective functioning of the IQAC?**

They provide the necessary input, feedback, recommendations for effective functioning of the IQAC.

**e. How does the IQAC communicate and engage staff from different constituents of the institution?**

- The IQAC communicates the records, resolutions of the meetings to all the staff twice in a semester by conducting meeting with committee coordinators.
- If there is any change in the quality policy members of IQAC provide training programs to the staff members for effective implementation of changed policy.
- Inviting the staff to involve in quality enhancement programmes (such as guest/extension lectures etc) which are arranged by any dept.
- It encourages inter-disciplinary workshops and seminars.
- Encourages the staff to do quality and interdisciplinary projects
- Utilizes the expertise of the faculty members.
- Encouraging the staff to publish papers.
- Motivating the staff towards modern teaching methods.

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.**

Yes

The Framework of the quality assurance of the academic and administrative activities is tabulated below:

S.NO	PARTICULARS
1	Vision, Mission, Programme educational objectives
2	Program outcomes
3	Programme curriculum
4	Students performance
5	Faculty contribution
6	Facilities and technical support
7	Academic support units and Teaching learning process
8	Goverence, Institutional and Facility
9	Continuous Improvement

- The decisions taken in the meetings of the IQAC are communicated to all the depts. through the members of the IQAC who are HODs.
- On the whole, the principal ensures quality in academic and administrative activities at the institution level.
- All the academic and administrative activities are included in annual institutional plan.

**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.**

YES, institution provides the following

- Principal/Senior Faculty Members provide guidance to the staff for effective implementation of the Quality assurance procedures.
- faculty members given training regarding teaching methodology, maintenance of course files ,lab manuals, student evaluations, learners characteristics, institutional objectives, institutional methods, PEO's &PO's by resource persons
- For the improvement of teaching process, the staff are sent to Refresher/Orientation and other training programmes.
- The IQAC arranges training for the staff in some of the Quality assurance procedures by eminent personalities.
- It arranges skill oriented programmes for the teaching/ non-teaching staff.
- It helps improve quality in both academic and administrative activities.
- Teaching/ organization skills of junior faculty is increased
- 

**6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?**

Yes, the academic committee performs the academic audit.

- Internal audit by IQAC regularly coordinates the activities of various committees.
- External Annual academic audit by Fact finding committee JNTU-Kakinada, AFRC.
- The outcomes are helpful in the betterment of the teaching-learning process.
- On the out come/report of academic Audit, suitable guidelines are framed to improve the quality of activities.

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?**

- The IQAC ensures the implementation of all the rules & regulations stipulated by the External Quality Assurance Agencies like **Jawaharlal Nehru Technological University-Kakinada, AICTE, AFRC and APSICHE.**
- The academic calendars issued by the JNTU-Kakinada are scrupulously followed in all the activities besides implementing the institutional academic calendar.
- Implementing NBA/NAAC quality policies.

**6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

- It is an institutional mechanism that all the staff have to record the topics completed in each session.
- All the staff members regularly monitor the attendance
- Class review meetings by the Head of the Departments.
- In the tutorials a number of problems are worked out and the examples discussed.
- The institute monitors the quality of teaching by several means such as
  - a. Scrutiny of course files

- b. Regular meetings with student representatives
- c. Oral and written feedback from the students.
- d. Students performance in the internal examinations.
- e. Result analysis.

#### **Evaluation Procedures & Feedback**

- The evaluation of faculty by the students through feedback
- Feedback focuses on various teaching skills
- The Head of the institution interacts with a few students of each class and takes the feedback
- Self- appraisals are taken from the faculty member at the end of every academic year.

#### **Syllabus**

- Affiliating university prescribed syllabus is followed.
- Additional topics are included to bridge the curriculum.

#### **Academic Calendar**

- Number of instructional days, contact hours per week as directed by affiliating university is followed.

#### **6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

- Conducting meetings with staff, management and parents.
- Displaying the circulars & information in notice boards of college & department levels.
- Updating news, events conducted by the college displayed in College and Department notice boards.
- Interacting with students and Parents.
- Broachers and website.

## CRITERIA VII: INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Every member of the college family is fully aware of environmental protection of the college campus; they always contribute to enrich the environment development in the college campus.

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

#### **Energy conservation:**

- The last Student who leaves the class room should off the switches in the class room
- Implementing energy saving techniques is ensured that the lights and fans are switched off by floor peons and staff after completion of the last lecture of the day. Switched off when the faculty moves to lecture rooms.
- Classrooms are made with sufficient cross ventilation and light so that the use of electricity can be minimized.
  - LED Lamp fittings are in Progress

#### **Use of renewable energy:**

- To stick posters on all switch boards in campus advocating power saving
- To replace electrical regulators with electronic regulators.
  - To conduct energy audit to whole college with the help of agency.
- To use solar energy to preheat the boiler feed water.
- To use natural drought/forced drought to enhance cooking stove efficiency.
  - Planning a guest lecture on importance of renewable energy committee in even semester.
  - Paper presentation and poster presentation competition for EEE and Mech. students in even semester.
    - Planning to install 150 KVA Solar Power Unit.

#### **Water harvesting:**

- Constructed water conservation pits to harvest rain water.

### **Efforts for Carbon neutrality:**

- The students are directed to park their vehicles at the college gate in the parking place provided by the college in order to keep the environment pollution free.

### **Plantation:**

- The institute has planted and maintained different varieties of flowering trees, ornamental trees and shrubs to keep the institute free from pollution. A lot of various kinds of trees are planted in the campus.
- Surviving the dying trees and if not survived, removed the rotten trees and planted with new ones.
- 

### **Hazardous waste management:**

- The dust bins are kept everywhere for throwing rubbish in. A sweeper is kept for cleansing purpose.

**E-waste management** Electronic waste is given to the vendor.

## **7.2 Innovations**

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

The following are the innovations introduced during the last four years which have created a positive impact on the functioning of the college:

- Provided the Wi-Fi facility in the campus.
- Many guest lectures had been given to students by Industry/ Educational experts.
- Institute has started RESEARCH FORUM having advanced facilities provides full support for research and development activities to uplift the status of the students.
- Providing the training on soft skills and technical skills to the entire final years student by experts from outside the campus.
- English language lab is made available for the students.
- The entire campus has been made tobacco free through initiatives of both the faculty and students and this has definitely created a positive impact in the institution.
- The laptops are given to the Senior teachers for class room study purpose.

- All departments provided the computer with internet facility in the staff room.  
Provided intercom facility to each department for communication purposes.
- Established sports club aims to make youth India with strong physic and efficient mind. To impart that we provide all the facilities to the students to take part in sports activities to make them fit. Students of our college take part in inter collegiate meet and university level sports.
- The faculties are sent to seminars, conferences and workshops to be more active in research activity.
- The new furniture is made in the Principal's chamber, staff room and in non-teaching staffroom.
- Training and placement cell has been established.
- Providing placements to the students by conducting the campus interviews.
- Provision for sufficient purified drinking water.
- Maintaining the department library by each department.
- Provided many instruments to save from fire accidents.
- Cultural programs are conducted for development.
- Continuous Assessment of Students Academic Progress.
- Strict Regulations on Students Attendance and Mannerism.
- In-plant Training and Industry Visits
- Programming and Problem-solving Contests
- Conducts the Students Seminars and Debates
- Interviews and Group Discussions
- Team-building Exercises.
- Introduced the Innovation and Creativity Clubs
- Provides the Personality Development Programs.

### 7.3 Best Practices

7.3.1 Elaborate on any two best practices **in the given format at page no. 98**, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practices-1: Study hours, Tutorial and Remedial System in the institution

**Goals of the practice:** To enable the high achievers to reach excellence and the slow learners to reach the minimum qualifying level.

**The Process:** Each teacher identifies high scorers and low scorers. Each staff takes at least 2-3 low achievers as his or her wards under sustained supervision and care to assist them to improve their performance. High scorers are also given help to become equipped to get top percentage of marks. The college Training and placement Cell and faculty help students in their plans for future development and careers. Every day the college conducts the study hours to the week students beyond the college timings, under sustained supervision and care to assist them to improve their performance. High scorers are also given help to become equipped to get university ranks. To make the students more clear about their subjects tutorial classes are being conducting for every subject in college timings. Remedial classes are conducted for week students

Results are drastically improved. The percentage of passes in some Subjects is 100% and more than 80% in others Subjects.

The teachers need to assist the students beyond the college timings for their improvement in the academics and faculty should clarify the doubts in the tutorial class.

**Resources required:**

**For further details/ contact person**

**Principal: Dr. C.P.V.N.J. Mohan Rao Avanthi Institute of Engineering and Technology**



City: Narsipatnam  
Pin Code: 531113  
Phone (O) :  
08932-22238,

Fax: 08932-222453  
Website: [www.avanthienggcollege.ac.in](http://www.avanthienggcollege.ac.in) E-mail:  
[principal\\_aiet@yahoo.com](mailto:principal_aiet@yahoo.com)

**Best Practices-2: Mentoring System for Students to overcome the difficulties irrespective of stress, personal, domestic, academic, etc.**

**Goals of the practice:** To minimize dropouts and giving guide lines for their career plan and overcoming their difficulties in the learning the subject through personal counseling.

The practice is that of creating an efficient mentoring system. Each teacher is assigned 10-12 students. They meet at least once a week to discuss, clarify and primarily to share various problems which may be personal, domestic, academic, etc. The teacher is equipped with all the necessary information about his/her wards on a file. The teacher involves local guardians and parents as well, whenever necessary

It is needless to say that a mentor gets the job satisfaction. Evidence of success of the practice includes better results in the examinations, more regular attendance, increased participation in co-curricular activities, better discipline on campus and respectful relationship between teachers and students. Observed the overall improvement in the attitude of the students.

**Evidence of Success**

This practice requires well-committed teaching staff having the desire to help students.

Principal: **Dr. C.P.V.N.J. Mohan Rao Avanthi Institute of Engineering and Technology**

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

[principal\\_aiet@yahoo.com](mailto:principal_aiet@yahoo.com)

**Resources required:**

**For further details/ contact person**

### Best Practices-3: Regular communication with parents

**Goals of the practice:** To minimize irregularities and make the parents aware of the student progress in the campus regarding the attendance, marks etc.

The practice is that of every class will have one class in charge. He will look after all aspects of the students and if there is any problem with students regarding attendance, marks, any misbehavior in the campus immediately communicates to the parents.

With this every student is regular at their class work and gets good marks in the MID exams, Misbehavior, Disciplinary issues are also reduced

#### ***Evidence of Success***

**Resources required:** This practice requires teaching staff to act as class in charge and an effective communication system is needed.

#### ***For further details/ contact person***

Principal: **Dr. C.P.V.N.J. Mohan Rao Avanthi Institute of Engineering and Technology**

City: Narsipatnam Pin Code: 531113

Phone (O) : 08932-222382, Fax: 08932-222453

Website: [www.avanthienggcollege.ac.in](http://www.avanthienggcollege.ac.in) E-mail: [principal\\_aiet@yahoo.com](mailto:principal_aiet@yahoo.com)



# Evaluative Report of Electronics and Communication Engineering

1. Name of the department  
**Department of Electronics and Communication Engineering**
2. Year of Establishment: 1999
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

**UG: B.Tech (ECE) and**

**P.G: M.Tech (VLSI Design) and M.Tech (DECS)**

4. Names of Inter disciplinary courses and the departments/units involved.

Name of the Course	Department offered
Environmental Studies	Humanities
C Programming	Computer Science & Engg.
MEFA	Dept of MBA
Electrical Technology	Electrical & Electronic Engg.
Control systems	Electrical & Electronic Engg.
Management Studies	Dept of MBA
OS	Computer Science & Engg.

5. Annual/semester/choice based credit system (programme wise):

B.Tech – Choice Based Credit system

M.Tech – Semester system

6. Participation of the department in the courses offered by other departments.

Subject	Department
I & CS	Mechanical Engineering
MEMS	
LDIC	Electrical & Electronic Engg.
EDC	
STLD	
MP	
DLD	Computer Science & Engg.
MP	

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :

**NIL**

8. Details of courses/programmes discontinued (if any) with reasons:

**NIL**

9. Number of teaching posts

	Sanctioned	Filled
Professors	02	02
Associate Professor	05	05
Assistant Professors	38	38
Total	45	45

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

S. No.	Name	Qualification	Designation	Specialization	Number of Years of Experience
1.	Dr. Ch Srinivasu	Ph.D	Professor	Radar Signal Processing	01
2.	Dr P.Mohanaiah	Ph.D	professor	Antennas	01
3.	Mr E Govinda	M Tech	Asso.Professor	DSCE	14
4.	Mr R Prasada Rao	M Tech	Asso.Professor	DSCE	14
5.	Mr M Kedareeswara Rao	M Tech	Asso.Professor	Instrumentation	5
6.	Mr .D Lakshminarayana	M Tech	Asso.Professor	Radar and Microwave	3
7.	Mrs Ch.V. Sridevi	M Tech	Asso.Professor	Radar and Microwave	5
8.	Mr P Ashok Kumar	M Tech	Asst.Professor	VLSI D	6
9.	Ms G.Divya	M Tech	Asst.Professor	VLSI D	1
10.	Mr T Pattala Naidu	M Tech	Asst.Professor	Instrumentation	5
11.	Mr M. Ranganath Sarath	M Tech	Asst.Professor	DSP	4
12.	Ms D Prasanna Kumari	M Tech	Asst.Professor	VLSI D	8
13.	Mr V V Satya Narayana	M Tech	Asst.Professor	ECE	7
14.	Mr R Aneel Kumar	M Tech	Asst.Professor	VLSI SD	4
15.	Mr P Sahitya Kiran	M Tech	Asst.Professor	DSP	3

16.	Mr K.Uma Shanker	M Tech	Asst.Professor	VLSI	3
17.	Ms P Sri Satya	M Tech	Asst.Professor	Radar and Microwave	6
18.	Mr SV Sudheer Kumar	M Tech	Asst.Professor	VLSI SD	3
19.	Mr K.santosh kumar	M Tech	Asst.Professor	C& SP	2
20.	Mrs P.Raghava kumari	M Tech	Asst.Professor	DECS	5
21.	Mr K.Dhilli	M Tech	Asst.Professor	DECS	1
22.	Mr Balaji KA	M Tech	Asst.Professor	VLSI	1
23.	Mr D Sreenivasa rao	M Tech	Asst.Professor	ECE	2
24.	Mr B.Ajitha Teja	M Tech	Asst.Professor	DECS	1
25.	Mr Kandregula haribabu	M Tech	Asst.Professor	Radar and Microwave	2
26.	Mr V Ravi shanker Varma	M Tech	Asst.Professor	VLSI	2
27.	Ms P Prabhavathi	M Tech	Asst.Professor	VLSI SD	1
28.	Mr P.Prasanth Kumar	M Tech	Asst.Professor	VLSI SD	1
29.	Mr M Nageswara Rao	M Tech	Asst.Professor	Radar & microwave	4
30.	Ms D Swetha Padmaja	M Tech	Asst.Professor	VLSI&ES	4
31.	MrT. Depak	M Tech	Asst.Professor	VLSI	1
32.	Mr G Ravi shankar	M Tech	Asst.Professor	VLSI SD	1
33.	Mr SV Ramana	M.Tech	Asst.Professor	VLSI	1
34.	M Kishore Kumar	B Tech	Asst.Professor	ECE	2
35.	B.Narayana Rao	B Tech	Asst.Professor	ECE	2
36.	Garbham Santhosh	MBA	Asst.Professor	ECE	1
37.	Mr S Phani Vara Prasad	B Tech	Asst.Professor	ECE	1
38.	Mr J Ravichandra	M.Tech	Asst.Professor	VLSI SD	1
39.	Mr G Kanaka Rao	M.Tech	Asst.Professor	VLSI SD	1
40.	M Ganesh	M.Tech	Asst.Professor	VLSI	1
41.	K Bala Souri	M.Tech	Asst.Professor	VLSI SD	1
42.	Pillai Sanil Kumar	M.Tech	Asst.Professor	VLSI SD	1
43.	M Ravi Jagannadh	M.Tech	Asst.Professor	VLSI SD	1

44.	Dokkara Anusha	M Tech	Asst.Professor	VLSI SD	1
45.	Thota Sowjanya	M Tech	Asst.Professor	VLSI SD	1

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise)  
By temporary faculty: Nil

13. Student-Teacher Ratio (Programme Wise):

**U.G: 15:1**

**PG : 12:1**

14. Number of academic support staff (technical)and administrative staff; sanctioned and filled.

	Sanctioned	Filled
Technical	06	06
Administrative	02	02
Total	08	08

15. Qualifications of Teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:

Total faculty strength	45
Number teaching faculty with Ph.D	02
Number teaching faculty with M.Tech	40
Number teaching faculty with B.Tech	03

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.: **Nil**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR etc. and total grants received: **Nil**

18. Research Centre/facility recognized by the University: **Nil**



19. Publications:

Name of faculty	Academic Year			
	2012-13	2013-14	2014-15	2015-16
Mr.R Prasada Rao	2	--	--	1
Mr.E Govinda	1	1	--	1
Mr. BN Srinivsa Rao	5	4	2	1
Sri P Ashok Kumar	1	--	--	1
Sri M Kedareswara Rao	4	1	1	1
Sri D Rahul Varma	1	--	--	1
Sri D Prasanna Kumari	1	--	--	
Sri T Patala Naidu	--	--	--	1
Mr R Aneel kumar	1	--	--	1
Sri SV Sudheer Kumar	--	1	--	
Mr. Venkata Ganesh Moturi	1	--	--	
Mr G.vekata rao	1	--	--	
Total	18	7	3	8

**INTERNATIONAL JOURNALS**

S. No	Name of the faculty	Title of conference
Academic year 2015-2016		
1.	Mr E.Govinda	Published a paper named "Speed and Area Optimized Realization of 5 Port Router using Verilog HDL" in international journal. (IJVDCS) Vol.3, Issue 08, October 2015, Pages 1199-1202.
2.	Mr R.Prasad Rao	Published a paper named "Design and Analysis of Multisubstrate microstrip patch antenna" in international conference SPRINGER" Dec 2015
3.	Mr M.Kedareswara Rao	Published a paper named "Implementation of Speed Optimized CSLA Architecture using D-Latch Approach" ISSN 2322-0929 Vol.03, Issue.08, October-2015, Pages: 1169-1172.
4.	Mr P Ashok Kumar	Published a paper named "Realization of Multi operand Address based 64 bit modified Wallace MAC" ISSN 2322-0929 Vol.03, Issue.08, October-2015, Pages: 1213-1216.
5.	Mr T.P.Naidu	Published a paper named "Evaluation of Sparse Tree RSFQ Adder for

		high speed applications “in international journal. (IJVDCS) ISSN 2322-0929, Vol.3, Issue 08, October 2015, Pages 1203-1207. <b>www.ijvdc.org</b>
6.	Mr D.Rahul Varma	Published a paper named “ Implementation of Power Optimized PRPG with Low Transition Test Compression Technique INDRANI “in international journal.(IJVDCS) ISSN 2322-0929, Vol.3, Issue 08, October 2015, Pages 1217-1223. <b>www.ijvdc.org</b>
7.	Mr R.Aneel Kumar	Published a paper named “ Design of Fault Coverage Circuit with Efficient Hardware for Low Power Testing Applications “in international journal.(IJVDCS) ISSN 2322-0929, Vol.3, Issue 08, October 2015, Pages 1269-1272 <b>www.ijvdc.org</b>
8.	Mr BN srinivasa Rao	Published a paper named “ Implementation of Add Multiplier operator Design Modified Booth Recoder for Power Efficient Applications “in international journal.(IJVDCS) ISSN 2322-0929, Vol.3, Issue 10, December-2015, Pages 1568-1573 <b>www.ijvdc.org</b>
Academic year 2014-2015		
1.	Mr. BN Srinivsa Rao	Published a paper named “implementation of ripple carry and carry skip adders with speed and area Efficient” in international journal. (IJARCCE) Vol.3, Issue 10, October 2014.
2.		Published a paper named “Speed optimized 2D DCT Implementation for high compression rate Applications” in International Journal (IJAIR) Volume 3 Issue 9, 2014
3.	Mr. M. Kedareswara Rao	Published a paper named” Low Power Implementation using Clock and Power Gating” ISSN 2322-0929 Vol.03, Issue.01, January-2015, Pages:0108-0112.
Academic year 2013-2014		
1.	Sri E Govinda	<a href="http://www.ijettjournal.org">International Journal of Engineering Trends and Technology (IJETT)</a> – Volume 4 Issue 9- Sep 2013 ISSN: 2231-5381 <a href="http://www.ijettjournal.org">http://www.ijettjournal.org</a> Page 3814 Background Subtraction with Feature Extraction Based on FPGA
2.	Sri M.kedareswara rao	Message Encoding in Images Using Lifting Schemes International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 8, August – 2013, ISSN: 2278-0181, <a href="http://www.ijert.org">www.ijert.org</a>
3.	Sri BN Srinivasa Rao	<a href="http://www.ijettjournal.org">International Journal of Engineering Trends and Technology (IJETT)</a> – Volume 4 Issue 9- Sep 2013 ISSN: 2231-5381 <a href="http://www.ijettjournal.org">http://www.ijettjournal.org</a> Page 3814 Background Subtraction with Feature Extraction Based on FPGA
4.	Mr S.V Sudheer Kumar	<a href="http://www.ijettjournal.org">International Journal of Engineering Trends and Technology (IJETT)</a> – Volume 4 Issue 9- Sep 2013 ISSN: 2231-5381 <a href="http://www.ijettjournal.org">http://www.ijettjournal.org</a> Page 3814 Background Subtraction with Feature Extraction Based on FPGA
Academic year 2012-2013		

1.	Sri E Govinda	A Novel Approach of speed optimization Design for General Linear Feedback Shift Register Structures <a href="http://www.semargroups.org/ISSN_2319-8885,volume01,Issue%20No.2">www.semargroups.org/ISSN_2319-8885,volume01,Issue No.2</a>
2.	Sri R Prasada Rao	Semi-custom Implementation of high speed, Area efficient 16:1 multiplexer ISSN: 2319-281X Vol. 1,No. 3, Dec 2012
3.		Design and analysis of 16-bit full adder using Spartan-3 FPGA <a href="http://www.ijert.org/">www.ijert.org/</a> ISSN:2278-1323 Vol. 1,Issue 7, Sept 2012
4.	Sri P.Ashok kumar	Design of adiabatic logic based low power carry select adder <a href="http://www.ijera.org/ISSN:VOL_2,issue%206,july%202012">www.ijera.org/ISSN:VOL_2,issue 6,july 2012</a>
5.	Sri D.Rahul Varma	Reconfigurable Vrtribi Decoder <a href="http://www.ijera.org/ISSN:VOL_2,issue%206,sep%202012">www.ijera.org/ISSN:VOL_2,issue 6,sep 2012</a>
6.	Sri D.Prasanna kumari	A Future Technology For Enhanced operation in Flip-Flop oriented Circuits <a href="http://www.ijera.com/papers/Vol2_issue4/NG2421772180.pdf">www.ijera.com/papers/Vol2_issue4/NG2421772180.pdf</a>
7.	Sri M.kedareswara rao	A full custom design and implementation of counting bloom filter.
8.		Design of reconfigurable multipliers based on high speed Shannon adder <a href="http://www.ijert.org/.../september-2012-edition">www.ijert.org/.../september-2012-edition</a>
9.		Analysis of reconfigurable multipliers for integer and Galois field multiplication based on high speed adder <a href="http://www.sciencedirect.com/science/article/pii/S2212017312005579">www.sciencedirect.com/science/article/pii/S2212017312005579</a>
10.		An FPGA architecture based on linear and morphological image filtering <a href="http://www.ijettjournal.org/volume-4/issue-6/IJETT-V4I6P115.pdf">www.ijettjournal.org/volume-4/issue-6/IJETT-V4I6P115.pdf</a>
11.		Design of clip using core centric protocol <a href="http://www.ijera.com/papers/Vol3_issue1/EK31903907.pdf">www.ijera.com/papers/Vol3_issue1/EK31903907.pdf</a>
12.	Sri BN Srinivasa Rao	Published a paper named “Design and Implementation of Low-Power High- Speed Full Adder cell using GDI Technique” in International Journal IJESIT-2012,vol2,issue2. <a href="http://www.ijesit.com/Volume%202/Issue%202/IJESIT201302_48.pdf">http://www.ijesit.com/Volume%202/Issue%202/IJESIT201302_48.pdf</a>
13.		Published a paper named “Implementation of area efficient 16bit adder in SPARTAN-3 FPGA” in International Journal IJESIT-2012,vol2,issue2. <a href="http://www.ijesit.com/Volume%202/Issue%202/IJESIT201302_71.pdf">http://www.ijesit.com/Volume%202/Issue%202/IJESIT201302_71.pdf</a>
14.		Published a paper named “Carry-save adders in FPGAs” in International Journal IJECSE-2012,vol2,issue3.
15.		Published a paper named “Design of FIR filter based on improved DA algorithm and its FPGA Implementation” in International Journal IJESIT-2012,vol2,issue2.
16.		Design and analysis of 16-bit full adder using Spartan-3 FPGA <a href="http://www.ijert.org/">www.ijert.org/</a> ISSN:2278-1323 Vol. 1,Issue 7, Sept 2012
17.	Mr R Aneel kumar	Design and analysis of 16-bit full adder using Spartan-3 FPGA <a href="http://www.ijert.org/">www.ijert.org/</a> ISSN:2278-1323 Vol. 1,Issue 7, Sept 2012
18.	Mr G.Venkata Rao	<b>Design of On Chip Bus Using Core Centric Protocol</b> International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 <a href="http://www.ijera.com">www.ijera.com</a> Vol. 3, Issue 1, January -February 2013,

		pp. 1   Page
19.	Mr .Venkata ganesh Moturi	<i>IRACST - International Journal of Advanced Computing, Engineering and Application (IJACEA), ISSN: 2319-281X, Vol. 1, No.3, December 2012 137</i> <b>Semi-Custom Implementation of High speed,Area efficient 16:1 Multiplexer</b>

20.Areas of consultancy and income generated: **Nil**

21.Faculty as members in

- a)National committees
- b)International Committees
- c)Editorial Board
- d)Professional body membership:

Sl.no	Name of the faculty	Name of professional body
1	<b>E.Govinda</b>	IEEE member #93071746

**Nil**

22. Student projects:

	2015-16
a) Percentage of students who have done in-house projects including inter departmental/programme	100%
b) Percentage of students who have done in-house projects including inter departmental/programme	0%

23. Awards/Recognitions received by faculty and students:

- **Faculty Achievements:**

Faculty secured more than 90% are appreciated with certificate.

- **Students Achievements:**

**2015-2016:**

Name of the Student	EVENT	Organized by	Award
P.Nagalingaih	Hardware Expo	PRARANA 2016 AIET	1 <sup>st</sup> Prize
P.Tejaswine P.G.Sonthosh	PPT	PRARANA 2016 AIET	1 <sup>st</sup> Prize
P.Prachotan T.Sudheer B.Lok Sai	Quiz	PRARANA 2016 AIET	1 <sup>st</sup> Prize
Bhanu Prakash	Photo Gallery	PRARANA 2016 AIET	1 <sup>st</sup> Prize

**2014-2015:**

Name of the Student	EVENT	Organized by	Award
L. Nanaji	Tecnomaze	AVISHKAR-2015, AIET, Narsipatnam	1 <sup>st</sup> Prize
M.D. Srihitha	Project: Android Controlled Robotic Boat	AVISHKAR-2015, AIET, Narsipatnam	1 <sup>st</sup> Prize
T.Samatha	Essay writing	District wise Jaiho mahila compitations in AKP,visakhapatnam	1 <sup>st</sup> prize
S.H Maithili	Essay writing	District wise Jaiho mahila compitations in AKP,visakhapatnam	3 <sup>rd</sup> prize

**2013-2014:**

Name of the Student	Project Title	Organized by	Award
N. Navitha S Ramya P Satti Babu	Improving Passengers safety in automobiles	Ablaze-2014, AIET, Narsipatnam	1 <sup>st</sup> Prize

N V Nageswara Rao Srinivas Ram Mohan	Electro Mechanic Break System	Ablaze-2014, AIET, Narsipatnam	2 <sup>nd</sup> Prize
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**2012-2013:**




Name of the Student	Event	Organized by	Award
N. Navitha	OHMNIS-2K13	AIET, Narsipatnam	2nd prize
P.Geetha praveen	TECH-SUMMIT- 2K13	Avanhi Group	2nd prize
P.Geetha praveen	TECH-SUMMIT- 2K13	Avanhi Group	2nd prize

**2011-2012**

Name of the Student	Event	Organized by	Award
Uday Naviteja Navin Satya Narayana	Robotics	Vignan Engg College, Visakhapatnam	2nd Prize
Ch Shanmukh	Tug of war (Robotics)	Vignan Engg College, Visakhapatnam	2nd Prize
Ch Shanmukh	Tug of war (Robotics)	Visakha Engg College, Visakhapatnam	2nd Prize
K Santhosh GVS Tejaswi Manikanta Guna Sekhar	Paper Presentation	Goa University, Goa	1st Prize

24. List of eminent academicians and scientists/visitors to the department:

 <p>Prof. G Tulasi Ram Das, VC, JNTUK on the occasion of Resonance held on 5<sup>th</sup> March 2012</p>	 <p>Prof. K. Satya Prasad, Rector, JNTU and Prof. of ECE addressing our students -Anushthana2K12</p>	 <p>Prof. HariBabu, Principal, Govt. polytechnic college Narsipatnam gives a lecture on Personality Development to our students -Anushthana2K12</p>
<p>Guest Lecture by</p>  <p>Dr. M. Lakshmi Narayana Scinetist 'H', DLRL &amp; Vice Chairman, IEEE Hyd Section. 14-02-2015</p>	<p>INAGURATION of AVISHKAR 2K15</p>  <p>13<sup>th</sup> – 14<sup>th</sup> of Feb 2015 Prof. B. Prabhakara Rao Vice Chancellor I/c - JNTUK</p>	<p>Personality Development</p>  <p>Lecture by Prof. KVSG Murali Krishna_ 13<sup>th</sup> – 14<sup>th</sup> of Feb 2015</p>

Guest Lecture by	INAGURATION of PRERANA 2K16	Industry interaction
		
<p>PROF.C.B .Rama Rao Department Of ECE, NIT Warangal.13-03-2016</p>	<p>12<sup>th</sup> -13<sup>th</sup> March2016 Sri V.Madhusudan,Chairman and M.D,Visakhapatnam Steel Plant</p>	<p>Sri Bhagavan Prasad BSNL Representative Visakhapatnam.13-03-2016</p>

S. No	Name of the invitee & Designation	Academician/ Scientist/ Industry	Date & Year
1.	Sri V.Madhusudan,Chairman and M.D,Visakhapatnam Steel Plant	Industry	12 <sup>th</sup> March2016
2.	Prof.R.V.Raja Kuamr Director ,IIT Bhubaneswar	Academician	12 <sup>th</sup> March2016
3.	Prof .Madhu Mutyam Deparmenmt of CSE,IIT Chennai	Academician	12 <sup>th</sup> March2016
4.	Sri M.Venkata Ratnam,Scientific officer H,BARC, Visakhapatnam	Industry	12 <sup>th</sup> March2016
5.	Prof.Jayantha Pal,Deparmenmt of EEE,IIT Kharagpur	Academician	13 <sup>th</sup> March2016
6.	Prof C.B.Rama Rao Department of ECE,NIT Warangal	Academician	13 <sup>th</sup> March2016
7.	Sri M.Bhagavan Prasad,SDE- EETP,BSNL, Visakhapatnam	Industry	13 <sup>th</sup> March2016
8.	Prof M.L.Sai Kumar, Fellow Computer Society of India & Professor & PGDM Co-ordinator ,Institute of Public Enterprise.	Academician	18-03-2016
9.	Prof.G.V.R Prasad Raju,Registrar,Jntuk	Academician	6 <sup>th</sup> Oct 2015
10.	Sri J.Satyanarana,I.A.S,Advisor IT Govt.Of Andhra Pradesh	Industry	6 <sup>th</sup> Oct 2015



11.	Sri Adapa Raja Suresh Kumar. Founder & CEO, Synchroserve Global Solutions Pvt.Ltd.Hyd.	Industry	6 <sup>th</sup> Oct 2015
12.	Prof. B. Prabhakara Rao Vice Chancellor I/C - Jntuk	Academician	13 <sup>th</sup> Feb 2015
13.	Prof. KVSG Murali Krishna, Jntuk	Academician	14 <sup>th</sup> Feb 2015
14.	Dr. M. Lakshmi Narayana Scinetist 'H', Dirl & Vice Chairman, Ieee Hyd Section.	Scinetist 'H'	14 <sup>th</sup> Feb 2015
15.	Sri. Rayaprolou S.S.Sarma Head (Grduate Talent Program) Virtusa, Hyd	Industry	13 <sup>th</sup> Feb 2015
16.	Sri T.Vasudeva Rao, Head, Startup Village, Visakhapatnam	Industry	14 <sup>th</sup> Feb 2015
17.	Sri Narendra Nerla, Vice President, Inspire Edge IT Solutions, VSP	Industry	14 <sup>th</sup> Feb 2015
18.	Prof.GSN Raju, Vice-Chancellor, AU	Academician	5 <sup>th</sup> April 2014
19.	Prof.Ch Ratnam, Principal, AU College Of Engineering	Academician	4 <sup>th</sup> April 2014
20.	Prof.P Vijay Prakash, Vice Chirmen, AP State Council Of Higher Education	Academician	4 <sup>th</sup> April 2014
21.	Sri GVS Haribabu, Principal , Govt. Polytechnic, Narsipatnam	Academician	4 <sup>th</sup> April 2014
22.	Sri Surya Shankar, DGM (Telecom), Visakhapatnam Steel Plant	Industry	5 <sup>th</sup> april 2014
23.	Sri N Rajesh. Group Head (Enterprise Marketing) Miracle Software Systems, Vsp	Industry	5 <sup>th</sup> april 2014
24.	Mr K Srinivas. Govt. Polytech, VSP	Academician	23 <sup>rd</sup> sep 2012
25.	Mr Y Arjun Kumar .DGM (Telecom), Visakhapatnam Steel Plant	Industry	2 <sup>nd</sup> March 2013
26.	Prof. K. Satya Prasad Rector Jntu, Kakinada	Academician	29 <sup>th</sup> Feb 2012
27.	Mr V Ragavendra, Delhi	Academician	9 <sup>th</sup> Aug 2012

28.	Mr. Subramanyam HR Dept TCS Hyderabad	Academician	5th March 2012
29.	Dr. Murali Mohan, Professor IIT, Kharagpur	Academician	5th March 2012
30.	Mr. Amitwa Das Scientist-F, Nstl, Visakha	Scientist	4 <sup>th</sup> Feb 2012
31.	Mr. Paresh Modh, Pme, Mumbai	Scientist	9 <sup>th</sup> March 2012
32.	Mr. P. Naga Raju, General Manager, Bsnl	Industry	2 <sup>nd</sup> Feb 2011
33.	Dr. Trimulthulu, Scientist B, Nstl, Visakhapatnam	Scientist	5 <sup>th</sup> March 2011
34.	Prof. Sri Lingam Murthy HOD Of EEE, AU	Academician	9th March 2010
35.	Prof. B. Prabhakara Rao, Hod Of Ece Jntu Kakinada	Academician	8th August 2010
36.	Prof. K. Padma Raju Director Industry Institute Interaction In Dept Of Ece Jntu Kakinada	Academician	9th Dec 2010
37.	Mr. G. Gurunadha Rao, HOD, ECE ,Dept, JNTU, Vijiynagaram	Academician	17 <sup>th</sup> Oct 2010
38.	Mr. Sudhakar, Scientist-G, Nstl, Visakha	Scientist	23 <sup>rd</sup> Sep 2010

25. Seminars/Conferences/Workshops organized & the source of funding

- a) National
- b) International
- c) college/society

S. No.	Event	National/ International	Funding source	Categories	Response	Year
1.	PRERANA2K16 (Igniting young minds.....to think beyond)	National	College	Hardware Expo.	39	201 6
				PPT	64	
				Quiz	119	
				Photo Gallery	27	
5.	A Seminar on Future Challenges in IT and Skill Development	National	College	IT and Skill Development	171	201 5
6.	AVISHKAR – 2K15			Creative Junx	4	201 5
				Skill hunt	5	
				Paper Presentation	31	
				Technomaze	74	

				Photo Gallery	6	
11.	ABLAZE-2K14	National	College and sponsor s	Hardware Expo.	47	2014
				Skill Hunt	4	
				Smart Movies	3	
				E-Quiz	120	
				Protatus	5	
16.	ECHELON-2K13			Paper Presentation	98	2013
				Poster Presentation	62	
				Hardware Expo.	42	
				Robotics	31	
				Inox	8	
				Smart movies	3	
22.	ANUSHTHANA - 2K12	National	College and sponsor s	Technical Paper Presentation	70	2012
				General Poster Presentation	36	
				Technical Quiz	30 batch	
				Hardware Expo.	150	
26.	Resonance-2k12	National	College and sponsor s	Technical Paper Presentation	100	2012
				General Postal Presentation	128	
				Technical Quiz	72	
29.	ADWITHIYA - 2K11	National	College and sponsor s	Technical Paper Presentation	94	2011
				General Postal Presentation	29	
				Technical Quiz	15	
				Hardware Expo.	90	
33.	Sankethika Samahar-2k11	National	College and sponsor s	Technical Paper Presentation	250	2011
				General Postal Presentation	81	
				Technical Quiz	96	
36.	ROBONUXUS – 2K09	National	College and sponsor s	Technical Paper Presentation	100	2009
				General Postal Presentation	85	
				Technical Quiz	61	

26. Student profile programme/course wise:

Year of Graduation	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2016	B.Tech(ECE)	176	176	127	49	81%
2015	B.Tech(ECE)	143	142	91	51	73%
2014	B.Tech(ECE)	133	133	96	37	83%
2013	B.Tech(ECE)	131	130	92	38	81%
2016	M.Tech (VLSI Design)	10	10	05	05	50%
2015	M.Tech (VLSI Design)	13	13	08	05	61%
2014	M.Tech (VLSI Design)	14	14	11	3	42%
2013	M.Tech (VLSI Design)	05	05	4	1	60%
2016	M.Tech (DECS)	14	14	10	4	28%

\*M=Male \*F=Female

27. Diversity of Students:

S.No.	Name of the course	% of students from same state	% of students from same other state	% of students from abroad
1.	B.Tech 2016 Admitted	99%	1%	NIL
2.	B.Tech 2015 Admitted	96%	4%	NIL
3.	B.Tech 2014 Admitted	97%	3%	NIL
4.	B.Tech 2013 Admitted	97%	3%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET,GATE,Civilservices,Defenseservices,etc.?

S.No.	Year	Gat e	PG CET	GRE
1.	2015-16	..	8	..
2.	2014-15	01	11	--
3.	2013-14	02	12	3
4.	2012-13	4	16	6

29. Student progression:

- **Academic year 2015-16**

S.No.	Student progression	Against % enrolled
1	UG to PG	7.3%
2	Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	36.36% 08.33%

30. Details of Infra structural facilities

a) **Department Library:**

S.No.	No. of Volumes	No. of Journals	CDs, VCDs, Multimedia
1.	1209	National 4 International 02	44

**Central Library:**

S.No.	No of Titles	No. of Volumes	No. of Journals	CDs, VCDs, Multimedia
1	1474	7187	National 12 International 06	84

c) Internet facilities for Staff & Students:

- Computer with internet are available in the HOD room.
- Faculty and students use internet facility with 20 Mbps speed in the departmental & computer laboratory having latest versions computer are available.

c) Class rooms with ICT facility

S.No.	Room Description	Usage	Shared/Exclusive?	Capacity	Rooms equipped with
1	N-24	Seminar Hall	Exclusive	200	Glass board, PC, LCD projector
2	Ground Floor	Conference Hall	Exclusive	30	PC and LCD projector
3	A-16	Class room	Exclusive	60	Glass board, PC, LCD projector

d) Laboratories:

Physical labs :

S. No	Room description	Name of the laboratories	Exclusive/ Shared	Space (Sqm), Number of students
1	N-15	Electronic Devices and Circuits	Shared	97.09, 30
2	A-7	Analog Communication Lab	Shared	97.09, 30
		Digital Communication Lab		
		Pulse & Digital Circuits Lab		
3	A-18	LIC Applications Lab	Shared	97.09, 30
		Electronic Circuit Analysis Lab	Shared	97.09, 30
4	A-8	Microprocessor and microcontrollers Lab	Shared	75.92, 30
5	A-10	Digital Signal Processing Lab	Shared	151.84, 30
		VLSI Lab		
		Digital System Design & DICA Lab		
6	A-6	Microwave Engineering Lab	Shared	75.92, 30

Curriculum Labs:

S.No.	Curriculum Lab Description	Number of experiments
1	Electronic Devices and Circuits	10
2	Analog Communication Lab	12
3	Electronic Circuit Analysis Lab	10
4	Digital System Design & DICA Lab	11
5	Pulse & Digital Circuits Lab	13
6	LIC Applications Lab	12
	Digital Communication Lab	12
	Microprocessor and microcontrollers Lab	16
	Digital Signal Processing Lab	10

7	Microwave Engineering Lab	12
8	VLSI Lab	10

31. Number of students receiving financial assistance from college, university, Government or other agencies.

In our department total 343 students are getting financial assistants from Govt. of Andhra Pradesh in fees Reimbursement and scholarships for the academic year 2016-17.

Year	Financial Asst. from Govt.	
	B.Tech	M.Tech
I year	49	01
II year	105	12
III year	96	
IV year	93	
Total	343	13

32. Details on student enrichment programmes (special lectures/workshops/ seminar)with external experts

Sl. No	Name of the invitee & Designation	Topic of Lecture	Date & Year
1.	Prof M.L.Sai Kumar, Fellow Computer Society of India & Professor & PGDM Co-ordinator ,Institute of Public Enterprise.	Personality development	18 <sup>th</sup> March 2016
2.	Sri Bhagavan Prasad BSNL Representative, Visakhapatnam.	Seminar on EETP program of BSNL	13 <sup>th</sup> March 2016
3.	Sri J.Satyanarana,I.A.S,Advisor IT Govt.Of Andhra Pradesh	Seminar on Future Challenges in IT and Skill Development	6 <sup>th</sup> Oct 2015
4.	Sri Adapa Raja Suresh Kumar. Founder & CEO,Synchroserve Global Solutions Pvt.Ltd.Hyd.	Seminar on Future Challenges in IT and Skill Development	6 <sup>th</sup> Oct 2015

5.	Prof. KVSG Murali Krishna, Jntuk	Personality development	14 <sup>th</sup> Feb 2015
6.	Dr. M. Lakshmi Narayana Scinetist 'H', DLRL& Vice Chairman, IEEE Hyd Section.	EM antennas and subsystems for electronic warfare programs.	14 <sup>th</sup> Feb 2015
7.	Sri S Surya Shankar, DGM(Telecom), visakhapatnam steel plant	Telecommunication techniques	5 <sup>th</sup> April 2014
8.	Mr. K Srinivas, Govt. Polytechnic, Visakhapatnam	EDC	23 <sup>rd</sup> Sep 2012
9.	Mr. K Srinivas, Govt. Polytechnic, Visakhapatnam	Antenna & Wave propagation	19 <sup>th</sup> Sep 2012
10.	Mr V Ragavendra, Delhi	Carrier Orientatation	9 <sup>th</sup> Aug 2012
11.	Mr. Subramanyam HR Dept TCS Hyderabad	Industrial Requirements	5 <sup>th</sup> March 2012
12.	Dr. Murali Mohan, Professor IIT, Kharagpur	Signals & Systems	5 <sup>th</sup> March 2012
13.	Prof. K. Satya Prasad RECTOR JNTU, Kakinada	Different Communication Techniques	29 <sup>th</sup> Feb 2012
14.	Mr. Amitwa Das Scientist-F, NSTL, Visakha	Under water Communication (SONAR)	4 <sup>th</sup> Feb 2012
15.	Mr. Paresh Modh, PME, Mumbai	Industrial Applications of Medical Electronics	9 <sup>th</sup> March 2012
16.	Mr. V. Subramanyam, Anushman Electronics	Industrial Applications of MPMC	22 <sup>nd</sup> Feb 2012
17.	Mrs. Ujwala Kranthi Prabha, MVGR, VZM	Optical Communications	6 <sup>th</sup> Jan 2012
18.	Prof. PV Sridevi Dept. of ECE, AU Engg College for women	Digital Signal Processing	4 <sup>th</sup> March 2011
19.	Mr. M. Prabhakara Reddy, Professor, BME Dept., BVRIT	Simulation Tool Box	7 <sup>th</sup> Feb 2011
20.	Dr. P. Srihari, Professor & HOD, Dept. of ECE, VNR VJIET, Hyderabad	VLSI	6 <sup>th</sup> Aug 2011
21.	Mr. J. Babu, Assoc.Prof., LB Reddy, Vijayawada	PTSP	11 <sup>th</sup> Sep 2011
22.	Mr. P. Naga Raju, GM, BSNL	Tele Communications	2 <sup>nd</sup> Feb 2011
23.	Dr. Trimulthulu, Scientist B, NSTL, Visakhapatnam	Under water Communication	5 <sup>th</sup> March 2011
24.	Prof. Sri Lingam Murthy HOD of EEE, AU	Network Analysis	9 <sup>th</sup> March 2010



25.	Prof. B. Prabhakara Rao, HOD of ECE JNTU Kakinada	Digital Communication	8th August 2010
26.	Mr. P. Sudhakar Assoc.Prof. Prime Engg College	Digital IC Applications	10th Sep 2010
27.	Prof. K. Padma Raju Director Industry Institute Interaction in dept of ECE JNTU Kakinada	Industrial Requirements	9th Dec 2010
28.	Mr. G. Gurunadha Rao, HOD, ECE Dept, JNTU, Vijiynagaram	Digital Communication	17 <sup>th</sup> Oct 2010
29.	Mr. GVS Hari Babu, Principal, Govt. Polytechnic, Narsipatnam	Control Systems	4 <sup>th</sup> Nov 2010
30.	Mr. Sudhakar, Scientist-G, NSTL, Visakha	DSP	23 <sup>rd</sup> Sep 2010

33. Teaching methods adopted to improve student learning.

We are using

- Chalk and Talk
- LCD
- OHP
- PPT
- SONET
- Labs
- Quiz
- Class Tests
- NPTL

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

### **STUDENTS PARTICIPATION IN SOCIAL RESPONSIBILITIES**

Yearly participants from the department:

<b>Year</b>	<b>No. of Students</b>
2015 - 2016	40
2014 - 2015	35
2013 - 2014	35
2012 - 2013	75

ACTIVITIES:

## 1 National Day(s) Celebrations.



## 2 Social Responsibility Activities

- Go Green Activity through plantation
- Blood Donation
- Visiting Hospitals & Interacting with patients and distribution of nutritious food.



AWARENESS PROGRAMS on:

- 1 AIDs
- 2 Communicable Diseases



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Local Public Health

- 4 Trauma Care
- 5 Disaster Management
- 6 Empowerment Of Girl Childs
- 7 R T I
- 8 Campus Cleanliness & Sanitation
- 9 Medical Camps.

There was a rally by NSS Unit in collaboration with Avanthi Group of colleges at beach road protesting against a gang rape of Miss.Nirbhaya @ 23-12-2012

Campus cleaning: NSS Volunteers regularly clean the campus under the banner Clean and Green.



35. SWOC analysis of the department and Future plans.

**Strengths:**

- Experienced and committed faculty and technical staff.

- Good industry/institute interaction with near by industries for visit, project works
- Participation of the students to work in teams
- High Intake -180 (2012 onwards)
- Right composition of seniors and youngsters having better scope for knowledge sharing and responsibility sharing

#### **Weaknesses:**

- Students are weak in communication skills due to their rural backdrop.
- Difficulty in handling Research and consultancy areas in their fullest extent.
- Not able to attract top rankers EAMCET due to proximity.

#### **Opportunities:**

- Less scope for utilization of industrial experience of faculty.
- Ability to deliver Entrepreneurial guidance to the students (project profiles).
- Very high competition in the job market is compelling the students who can towards the best they can perform.
- 8000 cr Worth aluminum refinery (ANRAK) which can provide students to have their internships/projects and consultant programs.
- 1000 cr worth Food processing unit at Ramanna palem village which is located 5km from the college, sanctioned by govt. of AP.
- 600 cr. Worth Brandix Apparel situated at Atchuthapuram about 20km from the college.

#### **Challenges:**

- In view of slowdown in recruitment by industry.
- Competition with several colleges.
- Retaining of senior faculty in view of opportunities due to upcoming colleges in nearby the city
- To transform an young non serious mind into a talented professional

#### **Future Plans:**

- To enter into MOUs with reputed academic and Industrial international organizations.
- To initiate exclusive R&D center for enhancing research in the department.
- To Improve the result in academics
- To improve placements for eligible candidates

## DEPARTMENT EVALUATION REPORT

### COMPUTER SCIENCE AND ENGINEERING

1. Name of the department: Computer Science & Engineering
2. Year of Establishment: 1999
3. Names of Programmes/Courses Offered (U.G., P.G., M.Phil, PhD, Integrated Masters; Integrated Ph.D., etc.):
  1. B.Tech in Computer Science & Engineering
  2. M.Tech in Computer Science & Engineering
4. Names of Interdisciplinary Courses and the Departments/Units involved:

S.no	Interdisciplinary course	Semester	Name of the Department
1	MEFA	II-I	M.B.A
2.	P & S	II-I	S & H
3.	DLD	II-I	E C E
4.	EDC	II-I	E C E
5.	EDC LAB	II-I	E C E
6.	MPMS	III-I	E C E

5. Annual/Semester/Choice based Credit System (Programme wise):

B.Tech – Choice Based Credit system

M.Tech – Semester system

6. Participation of the Department in the courses offered by other Departments:

S.No	Name of the Subject	Name of the Department
1.	DS	E C E
2.	C N	E C E
3.	O S	E C E
3.	C O A	E E E
4.	UNIX	E E E
5.	I C G	MECH

7. Courses in Collaboration with Other Universities, Industries, Foreign Institutions, etc.

NIL

8. Details of Courses/programmes discontinued (if any) with reasons

M.Tech in Software Engineering in 2014.

Students do not prefer the course; hence zero admissions have been recorded for three consecutive years. Hence opted for its closure.

9. Number of Teaching Posts:

The Governing Body has been Sanctioned and Filled the Teaching posts according to AICTE Norms:

Position	Sanctioned	Filled
Professors	03	03
Associate professors	05	05
Assistant Professors	26	26

10. Faculty Profile with Name, Qualification, Designation, Specialization, (D.Sc/D.Litt/Ph.D/M.Phil.etc):

S.No	Name	Qualification	Designation	Specialization	Years of Experience
1	Dr.C.P.V.N.J.Mohanrao	M.Tech.,Ph.D	Professor	CSE	15
2	Dr.M.Prasadrao	M.Tech.,Ph.D	Professor	CSE	11
3	Dr.Ch.V.Phanikrishna	M.Tech.,Ph.D	Professor	CSE	13
4	Mr.P.Rajasekhar	M.Tech	Assoc.Prof.	CST	07
5	Mr.P.V.S.Prabhakar	M.Tech	Assoc.Prof.	CSE	03
6	Mr.N.V.Ashok kumar	M.Tech	Assoc.Prof.	CSE	03
7	Ms.V.Suneetha	M.Tech	Assoc.Prof.	CSE	04
8	Mr.B.Nandakishore	M.Tech	Asst.Prof.	CSE	05
9	Mr.S.S.Pavankumar	M.Tech	Asst.Prof.	CSE	04
10	Mr.K.Varaprasad	M.Tech	Asst.Prof.	CSE	03
11	Mr.G.Varahagiri	M.Tech	Asst.Prof.	CSE	02
12	Mr.N.Swaroop	M.Tech	Asst.Prof.	CSE	06
13	Mr.K.V.Subramanyam	M.Tech	Asst.Prof.	CSE	05
14	Mr.Y.Srinivasu	M.Tech	Asst.Prof.	CSE	02
15	Mr.P.Naresh	M.Tech	Asst.Prof.	CSE	02
16	Mrs.Ch.Sulochana rani	M.Tech	Asst.Prof.	CSE	02
17	Ms.D.Anusha	M.Tech	Asst.Prof.	CSE	02
18	Mrs.P.Sudharani	M.Tech	Assoc.Prof.	CSE	04
19	Mr.S.V.Manikanta	M.Tech	Asst.Prof.	CSE	03
20	Ms.P.Nagalakshmi	M.Tech	Asst.Prof.	CSE	03
21	Mr.D.Ravi	M.Tech	Asst.Prof	CSE	02

22	Mr.S.Dileep	M.Tech	Asst.Prof.	CSE	02
23	Ms.A.Priyanka	M.Tech	Asst.Prof.	CSE	01
24	Ms.N.Sridevi	M.Tech	Asst.Prof.	CSE	02
25	Mr.Y.Sekharnaidu	M.Tech	Asst.Prof.	CSE	02
26	Mr.V.V.V.R.Kumar	M.Tech	Asst.Prof.	CSE	02
27	Mr.A.Bharatkumar	B.Tech	Asst.Prof.	CSE	02
28	Mr.Y.Sivaprasad	M.Tech	Asst.Prof.	CSE	02
29	Mr.S.Lokesh	M.Tech	Asst.Prof.	CSE	02
30	Ms.M.Sailaja	M.Tech	Asst.Prof.	CSE	04
31	Mr.J.Rajesh	M.Tech	Asst.Prof.	CSE	02
32	Mrs.S.Anusha	M.Tech	Asst.Prof.	CSE	03
33	Ms.K.Harini	M.Tech	Asst.Prof.	CSE	01
34	Mr.K.Srinivas	M.Tech	Asst.Prof.	CSE	01
ADJUNCT FACULTY					
33	M.Krishnamraju(MANUH TECHNOLOGIES,VIZAG)				INDUSTRY
34	A.Rajesh(Ctrl-S,HYDERABAD)				INDUSTRY
35	K.Srinivasarao(WIPRO,HYDERABAD)				INDUSTRY
36	B.Sridevi(INFOSYS,HYDERABAD)				INDUSTRY
37	V.Anantha Lakshmi(TCS,HYDERABAD)				INDUSTRY
38	A.Ramesh(INFOR GLOBAL SOLUTIONS,HYDERABAD)				INDUSTRY
39	M.Satya Dinesh Kumar(EFFICACY SYSTEMS PVT LTD,HYD)				INDUSTRY
40	S.Shivaganesh(MIRACLE,VIZAG)				INDUSTRY

11. List of Senior Visiting Faculty:

NIL

12. Percentage of lectures delivered and practical classes handled (Programme wise by temporary faculty):

NIL

13. Student-Teacher Ratio (Programme wise):

Student – Teacher Ratio (UG): 1:15

Student – Teacher Ratio (PG): 1:12

14. Number of Academic Support Staff (Technical) and Administrative staff; sanctioned and filled:

Position	Sanctioned	Filled
Academic Support Staff(Technical)	06	06
Administrative Staff	02	02



15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/M.Phil/PG:

Number of Faculty with Ph.D: 03

Number of Faculty with P.G: 30

16. Number of Faculty with ongoing Projects from

A) National

B) International Funding agencies and grants Received:

NIL

17. Departmental Projects funded by DST-FIST; UGC, DBT, IC, SSR etc and Total Grants Received:

NIL

18. Research Centre/Facility Recognized by the University:

NIL

19. Publications:

S.No	Name of the faculty	Number of papers published	Name of the journal	Academic Year
1.	Dr.C.P.V.N.J.Mohan rao	02	IJETT,IJAIR	2015-16
2.	P.Rajasekhar	03	IJSETR,IJCSIT,IJETT	2015-16
3.	P.V.S.Prabhakar	01	IJSETR	2015-16
4.	N.V.Ashokkumar	03	IJRCSE, IJSETR, IJETT	2015-16
5.	V.Suneetha	02	IJSETR, IJETT	2015-16
6.	B.Nandakishore	01	IJETT	2015-16
7.	P.Rajasekhar	04	International journal of Engineering Trends and Technology	2014-15
8.	P.V.S.Prabhakar	03	International Journal & Magazine of Engineering Technology,Managem ent and Research	2014-15
9.	N.V.Ashokkumar	01	International journal of advanced and	2013-14

			innovative research	
10.	M.Satyanarayana	03	International journal engineering trends and technology	2013-14
11.	V.Kumar	03	International journal of advanced and innovative research	2013-14
12.	Dr.C.P.V.N.J.Mohanrao	04	International journal of advanced and innovative research	2013-14
13.	Dr.C.P.V.N.J.Mohanrao	01	International journal for Computer Science and Engineering	2012-13
14.	B.Venkateswarulu	03	International journal for Computer Science and Engineering	2012-13
15.	S.S.Pavankumar	04	IRACST-Engineering science and Technology	2012-13
16.	V.Kumar	07	IJCSE,IJCSIT, IJMER	2012-13
17.	P.Rajasekhar	01	International Journal for Computer Technology and Applications	2012-13

20. Areas of Consultancy and income generated:

NIL

21. Faculty as members in National Committees, International Committees and Editorial Boards:

S.No	Name of the Faculty	Member
1.	Dr.C.P.V.N.J.Mohanrao	CSI

22. Student Projects:

Academic Year	Type of Projects	Percentage
2015 - 16	In-House Projects	100%
	Outside the Institution	nil
	In-House Projects	100%
	Outside the Institution	nil

2014 - 15		
2013 - 14	In-House Projects	100%
	Outside the Institution	nil
2012 - 13	In-House Projects	100%
	Outside the Institution	nil

23. Awards/Recognitions received by Faculty and Students:

STUDENTS:

**2015 – 16:**

S. No	Name of the student	Event Type	Event Name	Organized by	Prize
1.	G.Navyasai Rajendrakumar	Paper Presentation	PRERANA	AIET	1 <sup>st</sup> prize
2.	R.Gowthami	Poster Presentation	PRERANA	AIET	1 <sup>st</sup> prize

**2014 – 15:**

S. No	Name of the student	Event Type	Event Name	Organized by	Prize
1.	Ch.V.R.Teja	Technical Exhibition	AVISHKAR 2K15	AIET	1 <sup>st</sup> prize
2.	Ch.V.R.Teja	Paper Presentation	VIBRANT Diet	DIET	1 <sup>st</sup> prize

**2013-14:**

S.No	Name of the student	Event Type	Event Name	Organized by	Prize
1.	Swani Tyagi	Paper Presentation	Eplus-Club	AIET	3 <sup>rd</sup> prize
2.	D.Radhasree	Paper Presentation	Eplus-Club	AIET	3 <sup>rd</sup> prize
3.	Y.Prathibha	Paper Presentation	Eplus-Club	AIET	3 <sup>rd</sup> prize
4.	Ch.V.R.Teja	Poster Presentation	JAIHO2k14	GVP	1 <sup>st</sup> prize
5.	Ch.V.R.Teja	Paper	JAIHO2k14	GVP	1 <sup>st</sup> prize

		Presentation			
6.	Ch.V.R.Teja	Poster Presentation	STEPSTONE 2k14	GMR	1 <sup>st</sup> prize
7.	Ch.V.R.Teja	Poster Presentation	ZEITGEIST	JNTUK	1 <sup>st</sup> prize

**2012 -13:**

S.No	Name of the student	Event Type	Event Name	Organized by	Prize
1.	Swani Tyagi	Paper Presentation	National level Technical symposium	Chaitanya Engg.College	1st prize
2.	D.Radhasree	Paper Presentation	National level Technical symposium	Chaitanya Engg.College	1st prize
3.	Y.Prathibha	Paper Presentation	National level Technical symposium	Chaitanya Engg.College	1st prize

24. List of Eminent Academicians and Scientists/Visitors to the College:

S.No	Name of the Resource Person	Designation	Date of Visit
1.	Prof.Madhu Mutyam	Professor,IIT,Chennai	12-03-2016
2.	Prof.N.L.Saikumar	Professor,IPE	18-03-2016
2.	Prof.Arun k.Poojari	Dean,HCU	13-02-2015
3.	Prof.S.Pallamsetty	Professor,AU	14-02-2015
4.	Prof.B.Prabhakara rao	Vice Chancellor I/C - JNTUK	13-02-2015
5.	Prof.K.Muralikrishna	Professor,Civil Engg.,JNTUK	14-02-2015
6.	Sri.T.Vasudeva Rao	Head,Startup Village,Visakhapatnam	14-02-2015

7.	Sri.Narendra Nerla	Vice President,Inspire Edge IT Solutions,Visakhapatnam	14-02-2015
7.	Prof.G.V.R Prasad Raju	Registrar,JNTUK, Kakinada	06-10-2015
8.	Sri.J.Satyanarayana,I.A.S	Advisor,IT,Govt.of Andhrapradesh	06-10-2015
9.	Sri.Adapa Raja Suresh Kumar	Founder & CEO, Synchroserve Global Solutions	06-10-2015
10.	Prof.G.S.N.Raju	Vice-Chancellor,AU	05-04-2014
11.	Prof.Ch.Ratnam	Principal,AU College of Engineering	04-04-2014
12.	Prof.P.Vijay Prakash	Vice-Chairman,AP State Council of Higher Education	04-04-2014
13.	Sri.G.Venkata Ramesh	AGM(IT),Steel plant,Visakhapatnam	04-04-2014
14.	Sri.N.Rajesh	Group Head(Enterprise Marketing) Miracle Software Systems,Vizag	05-04-2014
15.	Prof.P.Srinivasa Rao	Head of the Department, Department of CS&SE.,A.U.Vizag	09-02-2013
16.	Sri.K.Viswanatham	Head,Mahindra Satyam, Visakhapatnam	09-02-2013
17.	Sri.Suman Das	AGM,IT Department,Visakha Steel Plant,Secretary,CSI,Vizag	09-02-2013

25. Seminars/Conferences/Workshops Organized and the Source of Funding:

S.No	Event	National/International	Funding Source	Year
1.	PRERANA,ATwo Day Technical Meet	National	College	2016
1.	A Seminar on Future Challenges in IT	National	College	2015

2.	A Seminar on Skill Development	National	College	2015
3.	Avishkar2k15,A Two day technical event	National	College	2015
3.	Tech-Reperio,A Two day technical event	National	College/Sponsors	2014
4.	Tech Envisage 2k13	National	College	2013
5.	Resonance	National	College	2012
6.	Sustantivo2k11	National	College	2011

26. Student Profile Programme/Course wise:

Name of the Course/Programme	Applications Received	Total Admitted	Male	female	Pass Percentage	Year
B.Tech	71	71	28	43	69%	2016
B.Tech	113	113	66	47	72%	2015
B.Tech	98	98	58	40	72%	2014

27. Diversity of Students:

S.No	Name of the Course	% of students from same state	% of students from other state	% of students from abroad
1.	I CSE	100%	NIL	NIL
2.	II CSE	100%	NIL	NIL
3.	III CSE	100%	NIL	NIL
4.	IV CSE	100%	NIL	NIL

28. The List of Students who selected in various national and competitive examinations:

S.No	Year	GATE	GRE	TOFEL	PGCET
1.	2016	NIL	NIL	NIL	09
2.	2015	NIL	---	---	05
3.	2014	NIL	01	01	08
4.	2013	01	01	01	07

29. Student Progression:

S.No	Student Progression	2015 - 16
1.	UG to PG	13%
2.	PG to M.Phil	NIL
3.	Employed	29%
4.	Entrepreneurship/Self employment	NIL

30. Details of Infrastructural Facilities:

a) Library: (Department)

S.No	Total Number of books available
1.	546

b) Internet Facilities for Staff & Students:

1. Computer with Internet is available in the HOD room.
2. Faculty and Students use Internet facility with 10mbps speed in the staff room and Computer laboratories.

c) Class rooms with ICT Facility:

S.No	Room Description	Usage	Capacity	Rooms equipped with
1	N-24	Seminar Hall	200	Glass board,PC,LCD projector
2	Ground Floor	Conference Hall	30	PC and LCD projector

d) Laboratories:

S.No	Name of the Lab	No. of Students Accommodate
1.	C Lab	60
2.	CSE lab1	60
3.	CSE lab2	60
4.	Project lab	60
5.	JKC Lab	30
6.	Communication lab	30

31. Number of students receiving financial assistance from College, University, Government or Other agencies:

In this department total 189 students are getting financial assistance from Government of Andhrapradesh in the form of fees Reimbursement and Scholarships for the academic year 2015-16.

Year	Financial Assistance from Govt. of A.P	
	B.Tech	M.Tech
I Year	58	01
II Year	58	04
III Year	19	----
IV Year	49	----
Total	184	05

32. Details on student Enrichment programmes (special lectures/workshops/seminars) with External Experts:

S.No	Name of the Invitee & Designation	Topic	Academic Year
1.	Prof.Madhu Mutyam, Dept of CSE,IIT,Chennai	Layered Computer Design	2015-16
2.	Prof.N.L.Saikumar, IPE,Hyderabad	Personality development and Positive Attitude	2015-16
3.	Sri. J.Satyanarayana,IT Advisor,Govt. of AP.	Future Challenges in IT	2014-15
4.	Sri.Adapa Raja Suresh Kumar, CEO,Synchroserve Global Solutions Pvt.Ltd,Hyderabad.	Skill Development	2014-15
5.	Prof.K.Muralikrishna, Dept.of Civil Engg. JNTUK,Kakinada.	Personality development	2014-15
6.	Prof.Arun K.Pujari,Dean, HCU,Hyderabad.	Big Data	2014-15
7.	Prof.S.Pallamsetty, Dept.of CSE,AU, Visakhapatnam.	Data warehouse	2014-15
8.	G.Venkata Ramesh, A.G.M,IT,RINL,Visakhapatnam	ERP in RINL & Goal Setting	2013-14
9.	Dr.R.V.S.Subramanyam,NSTL, Visakhapatnam	Role of Young Engineers in research and development.	2013-14



10.	Sri.Satya Topalli, Mahindra Satyam,Hyderabad	An interaction Session on career in IT and how to achieve it.	2013-14
11.	Sri.Viswanadham, Mahindra satyam,Visakhapatnam	A seminar on IT industry and its requirements.	2013-14
12.	Sri.N.Rajesh,Group Head, Miracle Software Solutions, Visakhapatnam.	Mobile App Development & Role of IT Telecommunication	2013-14
13.	Sri.Ravi Eswarapu,Head, Mahindra Satyam,VITA	A Lecture on skill assessment between industry and academia.	2012-13
14.	Mr.Naresh,Symbiosis	Orientation program on opportunities in IT and relative Disciplines.	2012-13
15.	Sri.T.Rajeswara Rao,Head, IT department,Steel plant, Visakhapatnam.	Development in public sector units.	2011-12

33. Teaching Methods Adopted to improve student learning:

- Classroom Teaching
- Chalk and talk
- OHP
- PPT
- Class tests
- Guest Lectures
- Practicals
- Group Discussions

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities:

Yearly Participants from the Department:

YEAR	No. of Students Participated
2015 - 16	25
2014 -15	30
2013 - 14	28

#### ACTIVITIES:

- Celebrate all National days.
- Social responsibility activities like:
  - Plantation in the college
  - Blood donation for needy
  - Our NSS Volunteers regularly participated in clean and green program.

#### AWARENESS PROGRAMS:

- AIDS
- COMMUNICABLE DISEASES
- PUBLIC HEALTH
- TRAUMA CARE
- DISASTER MANAGEMENT
- EMPOWERMENT OF GIRL CHILDS
- ROAD SAFETY PROGRAM BY POLICE DEPARTMENT
- R T I

#### 35. SWOC analysis of the department and Future plans:

##### Strengths:

S.No	Strengths of the Department
1.	Dedicated and committed faculty.
2.	Good Laboratories.
3.	Participation of both faculty and students in various professional bodies activities like CSI chapter.

##### Weaknesses:

S.No	Weaknesses of the Department
1.	Students are weak in communication skills due to rural background.
2.	Faculty/Students publications are relatively less.

3.	Not able to attract top rankers of CET due to proximity.
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Opportunities:

S.No	Opportunities of the department
1.	8000 cr. Worth aluminum refinery (AN RAK) which can provide students to have their internships/projects and consultant programs.
2.	1000 cr worth Food processing unit at ramannallem village which is located 5km from the college sanctioned by govt. of AP.
3.	600 cr. Worth Brandix Apparel situated at Atchuthapuram about 20km from the college.
4.	Increase demand in IT and Software companies.

Challenges:

S.No	Challenges of the Department
1.	To attract meritorious students.
2.	Slow down in recruitment.
3.	To transform an young non serious mind to professional.

Future plans:

- To encourage the faculty towards research and to obtain doctoral degree.
- To motivate the students towards entrepreneurship.
- To establish advanced laboratories for pursuing research.



**Evaluation Report of the**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

1. **Name of the Department:** ELECTRICAL AND ELECTRONICS ENGINEERING
2. **Year of Establishment:** 2001
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., and Integrated Masters; Integrated Ph.D., etc.)**  
 UG : B.Tech – Electrical & Electronics Engineering  
 PG : M.Tech – Power Electronics  
       M.Tech – Power Systems
4. **Names of Interdisciplinary Courses and the Departments / Units Involved:**

S.No	Interdisciplinary Courses Offered	Department
1	Managerial Economics & Financial Analysis Management Science Professional Ethics and Morals IPR and Patents	MBA
2	Basic Electronics and Devices Pulse & Digital Circuits Linear & Digital IC Applications Micro Processors & Micro Controllers Electronic Devices & Circuits Lab Micro Processors & Micro Controllers Lab	Electronics And Communication Engineering
3	Computer Programming Computer Organization UNIX & Shell Programming C Programming Lab IT Workshop	Computer Science & Engineering
4	Engineering Drawing Engineering Mechanics Thermal & Hydro Prime Movers Engineering Workshop Thermal & Hydro Lab	Mechanical Engineering

5. **Annual/ Semester/ Choice based Credit System (Programme Wise)**
  - a) B.Tech – (Electrical and Electronics Engineering) – Semester Based Credit System
  - b) M.Tech – (Power Electronics) – Semester Based  
       (Power Systems) – Semester Based

**6. Participation of the Department in the Courses offered to other Departments**

S.No	Programmes	Courses offered to other Departments	Subjects
1	B.Tech	Electronics & Communication Engineering	Electrical Technology Network Analysis Control Systems Networks & Electrical Technology Lab
2		Mechanical Engineering	Basic Electrical & Electronics Engineering Basic Electrical & Electronics lab

**7. Courses in collaboration with other universities, industries, foreign institutions, etc.:**

Nil

**8. Details of courses / Programmes discontinued (if any) with reasons: Nil**

**9. Number of Teaching Posts:**

Teaching Post	2015-2016	
	Sanctioned	Filled
Professors	2	2
Associate Professors	4	4
Assistant Professors	18	18

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

S.No	Name	Qualification	Designation	Specialization
1.	Dr.R V Amarnath	M.Tech,Ph.D	Professor	Power Systems
2.	M V RamanaMurthy	M.E	Professor	Power Systems
3.	V VSatyanarayana Murthy	M.Tech	Associate Professor	Power Systems
4.	TSrinivasarao	M.Tech, (Ph.D)	Associate Professor	Power Systems
5.	D K A S Prasad	M.E	Associate Professor	Energy Management
6.	K DurgaRao	M.Tech	Associate Professor	Instrumentation & Control Systems

7.	P Anil Kumar	M.Tech	Assistant Professor	Power Electronics and Electrical Drives
8.	U Anjaiah	M.Tech	Assistant Professor	High Voltage Engineering
9.	S Sujatha Devi	M.Tech	Assistant Professor	Control systems
10.	G Raja SekharYadav	M.Tech	Assistant Professor	Power Electronics and Electrical Drives
11.	P Varahala Dora	M.Tech	Assistant Professor	Control Systems
12.	R Bhargav	M.Tech	Assistant Professor	Instrumentation and Signal Processing
13.	K.TejeswaraRao	M.Tech	Assistant Professor	Power Systems and Automation
14.	J N Rama Krishna	M.Tech	Assistant Professor	Power Electronics
15.	V.S,Aditya	M.E	Assistant Professor	Control Systems
16.	B.Santhoshkumar	M.E	Assistant Professor	Control Systems
17.	S.Ravi Kumar	M.Tech	Assistant Professor	Power Electronics
18.	R Ganesh	M.Tech	Assistant Professor	Power Systems
19.	P.Siva	M.Tech	Assistant Professor	Power Electronics
20.	P.Sai Ram	M.Tech	Assistant Professor	Power Systems
21.	P.Sravanthi	M.Tech	Assistant Professor	Power Electronics
22.	VRKB Pinnam Raju	M.Tech	Assistant Professor	Power Systems
23.	K Shiva Kumar	B.Tech	Assistant Professor	E.E.E
24.	SkSalima	B.Tech	Assistant Professor	E.E.E

**11. List of Senior Visiting Faculty:**

1	Prof. V .Bapiraju	Retd. Professor	AUCE,VSP
2	P.Maleswara Rao	Retd.professor	Govt.Poltechnic, visakhapatnam
3	Prof P.Mallikarjuna Rao	Professor & Dean R&D	AUCE,VSP
4	Prof.K.Sivanagaraju	Professor	JNTUK
5	Dr.K.Ravindra	Associate Professor	JNTUK
6	Ch.V.V.S.Bhaskara Reddy	Professor	AUCE,VSP

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil**

**13. Student – Teacher Ratio (Programme Wise)**

UG : 15:1

PG : 12:1

**14. Number of Academic Support Staff (Technical) and Administrative staff; sanctioned and filled**

Teaching Post	2015-2016	
	Sanctioned	Filled
Academic Support Staff(Technical)	5	5
Administrative Staff	2	2
<b>Total</b>	<b>7</b>	<b>7</b>

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ M.Phil/ PG**

Qualifications of Teaching Faculty	Number
Ph.D	1
M.Tech	21
B.Tech	2

**16. Number of faculty with ongoing projects from a) National b)International funding agencies and grants received**

a) National : Nil

b) International : Nil

**17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil**



18. Research Centre/ Facility recognized by the University: Nil  
 19. Publications (Last 4 Years)

Name of faculty	Publications				
	2011-12	2012-13	2013-14	2014-15	2015-16
T SRINIVASA RAO	0	2	4	3	5
K DURAGA RAO	--	1	2	--	--
U ANJIAH	--	1	1	--	2
P ANIL KUMAR	--	--	1	--	1
S.SUJATHA DEVI					1
G.RAJASEKHAR YADAV					1
R. BHARGAV					2
P.V. DORA					1
K.TejeswaraRao				2	2
M V RAMANA MURTY	--	--	1	--	--

**List of Publications:**

S.No	Name of the Faculty	Title	Journal/ Conference	Date
1.	T SrinivasaRao	Fuzzy Logic Based Contingency Analysis	International Journal Of Electrical And Electronics Engineers	Vol. 8 issue 02, July-Dec 2016, pp 184-191
		Control of PET based on fuzzy logic for power quality improvement	International Journal Of Engineering Research And Application	ISSN 2248-9622 Vol.06, Issue 06, June 2016
		performance of DSTATCOM in conjunction with DG operation for Power Quality improvement	International Journal Of Emerging Trends In Science And Technology	ISSN 2348-9480 Vol.03, Issue.05, May- 2016
		“Solving Electrical Power Flow Problems using Intervals Arithmetic”	International Journal of Engineering Research & Technology (IJERT)	Vol. 4 Issue 04, April-2015, 1327-1331.
		“Interval Power Flow	American Journal For	ISSN: 2320 –

		Analysis: An Overview”,	Engineering Research (Ajer), Peer Reviewed	0847, Vol. 6, Issue 6, May-2015.
		A Promising Method for Uncertain Load Flow Studies”,	IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) – 2015	ISSN :978-1-4799-7678-2/15/2015 Date: 24 <sup>th</sup> -25 <sup>th</sup> January 2015, pp. 2405-2408.
		Comparison between Interval and Fuzzy Load Flow Methods Considering Uncertainty”	ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE)	ISSN: 2320 – 8945, Volume -2, 2014.
		Comparison between Interval and Fuzzy Load Flow Methods Considering Uncertainty	International Conference on Electrical, Electronics and Computer Science (ICEECS-2014) Institute For Research and Development India (IRD India)	ISBN: 978-3-642-24819-9, Volume III, Nagpur, India, 20-21 April, 2014.
		A Novel Power Quality Improvement Technique Using Multi-Connected Distributed Power Flow Controller (MC-DPFC)	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization)	Vol. 2, Issue 10 October 2013
		New Efficient Bridgeless Cuk Rectifiers for PFC Application on d.c machine	International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com	Volume 9, Issue 1, PP. 15-21 November 2013
		Integration of Matrix Converter with DTC of	International Journal of Advanced Research in Electrical,	(An ISO 3297: 2007 Certified Organization)

		Induction Motor Drive Applications	Electronics and Instrumentation Engineering	Vol. 2, Issue 10 October 2013
		Performance Evaluation of Isolated Wind/Hydro & PV Hybrid System for Standalone Power Generation	International Journal of Power System Operation and Energy Management,	Volume 4, Issue-2 May 2013
		High Performance of Matrix Converter Fed Induction Motor For IPF Compensation by Using New DSVM Method	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)	e-ISSN:2278-1676, p-ISSN:2320-3331, Volume 8, Issue 5 Nov – Dec 2013
		A Current Control Method for SVM Based Voltage Source Inverter with LC Filter	International Journal of Electrical and Electronics Engineering(IJEEE),	ISSN(Print):2231-5184 Volume 4, Issue-2 May 2013
		Interval Modified Fast Decoupled Method for Power Flow Studies	International Journal of Electrical Engineering Applications Research - IJEEAR.	J Vol 03, Issue 01; January -April 2012
2	K DurgaRao	New Efficient Bridgeless Cuk Rectifiers for PFC Application on D.C machine	International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com	Volume 9, Issue 1, PP. 15-21 November 2013
		High Performance of Matrix Converter Fed Induction Motor For IPF Compensation by Using New DSVM Method	IOSR Journal of Electrical and Electronics Engineering(IOSR-JEEE),	e-ISSN: 2278-1676, ISSN:2320-3331, Volume 8, Issue 5 Nov – Dec 2013
		Fuzzy Logic Based Intelligent Controller Design For An Injection Mould Machine Processor Control	IJAEST,	Vol No. 10, Issue No. 1, 098 – 103 Aug-2012
3	U Anjayya	A closed loop speed control of PMSM drive using fuzzy	Imperial Journal Of Interdisciplinary Research	ISSN 2454-1362 Vol.02.Issue.06, April- 2016

		logic controller		
		Performance of DSTATCOM in conjunction with DG operation for Power Quality improvement	International Journal Of Emerging Trends In Science And Technology	ISSN 2348-9480 Vol.03,Issue.05, May- 2016
		Reduction of Torque and Ripple in direct torque control of induction motor	National conference on recent developing in electrical engineering(NCRDEE-2013)	15 <sup>th</sup> – 16 <sup>th</sup> March 2013
		Integration of Matrix Converter with DTC of Induction Motor Drive Applications	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization)	Vol. 2, Issue 10 October 2013
4	P Anil Kumar	Control of PET based on fuzzy logic for power quality improvement	International Journal Of Engineering Research And Application	ISSN 2248-9622 Vol.06,Issue 06, June 2016
		Voltage Source Inverter/Converter for the Improvement of Power Quality using Fuzzy Logic Controller	International Journal of Engineering Research and Applications	(ISSN:2248-9622) Vol.4, Issue 5 May 2014
5	M V RamanaMurthy	A Current Control Method for SVM Based Voltage Source Inverter with LC Filter	International Journal of Electrical and Electronics Engineering	ISSN(Print): 2231-5184 Volume 4, Issue-2 May 2013
6	S.Sujatha Devi	A decisive evaluation of reduced switch type three phase multi-level inverter fed asynchronous drive	International Journal Of Scientific Engineering And Technology Research	ISSN 2319-8885 Vol.05.Issue.09, April- 2016
7	G. Rajasekhar yadav	Realization of harmonic mitigation in 3-phase, 3-wire system by using fuzzy based shunt active filter	International Journal Of Scientific Engineering And Technology Research	ISSN 2319-8885 Vol.05.Issue.09, April- 2016

8	R. Bhargav	Analysis of stability problem in wind generator using STATCOM and STBR	International Journal Of Education And Applied Research	IJEAR Vol.6, Issue 1, Jan-March-2016
		Fuzzy Logic Based Contingency Analysis	International Journal of Electrical and Electronics Engineers	Vol. 8 issue 02, July-Dec 2016, pp 184-191
9	K. Tejeswara Rao	A mixed model reduction method for the discrete time high-order systems	International Journal of Control Theory and Applications. (SCOPUS)	Volume: No.9(2016) Issue No. :39 (2016) Pages:15-18
		A new method for order reduction of high order multi variable systems using modified routh approximation technique	International Journal of Control Theory and Applications(SCOPUS)	Volume : No.9(2016) Issue No. :5 (2016) Pages : 2213-2220
		A novel approach for order reduction of high order discrete time systems using modified routh approximation method via w-domain	The series <u>Advances in Intelligent Systems and Computing of</u> <b>SPRINGER</b>	Volume: 410 pp 21-27 Date: 09 December 2015
		Application of mihalov criterion for reduction of high order MIMO systems	International Journal of Applied Engineering Research (SCOPUS).	Volume: 10, Number 23 (2015) pp.20740-20742
10	P.V. Dora	Unified power quality compensation scheme for power quality improvement using fuzzy controller with renewable energy system	International Journal of Scientific Engineering and Technology Research	ISSN 2319-8885 Vol.05.Issue.09, April- 2016

**20. Areas of Consultancy and Income generated: Nil**

**21. Faculty as Members in**

- a) National Committees : Nil  
 b) International Committees : Nil  
 c) Editorial Boards : Nil  
 d) Professional Bodies :

**22. Student Projects**

S.No	Programme	Academic year	% of in-house Projects	% of outside Projects
1	U.G (B.Tech)	2008-12	60	40
		2009-13	93	7
		2010-14	66	34
		2011-15	85	15
2	P.G(M.Tech)	2011-13	100	Nil
		2012-14	100	Nil
		2013-15	100	Nil

**23. Awards/ Recognitions received by students:**

- a) students:

S.No	Name of the student	Name of the Event	Name of the College	Awards/ Recognitions	Year
1	D.PRAGATHI	Resonance	AvanthiOrganizations	III rd position	2012
2	D.PAVANI	Resonance	AvanthiOrganizations	III rd position	2012
3	K.JAYARAM SANKAR	Resonance	AvanthiOrganizations	III rd position	2012
4	P.PARASURAM	OMNIS	A.I.E.T	I <sup>st</sup> position	2013
5	G.SURESH	OMNIS	A.I.E.T	I <sup>st</sup> position	2013
6	M.V.V RAMA KRISHNA	OMNIS	A.I.E.T	Ist position	2013
7	B.VEERENDRA	OMNIS	A.I.E.T	IIst position	2013
8	K.VINOD KUMAR	OMNIS	A.I.E.T	IIst position	2013
9	D.BHARAT KUMAR	TECH-REPERIO	A.I.E.T	Ist position	2014
10	K.NAVYA	TECH-REPERIO	A.I.E.T	Ist position	2014
11	POOJA SHAME	TECH-REPERIO	A.I.E.T	IIst position	2014

12	DIKSHA SANJAY HAZARNIS	TECH-REPERIO	A.I.E.T	Ist position	2014
13	PoojaShome	PRERANA 2K16	A.I.E.T	IInd position	2016
14	Diksha Sanjay Hazarnis and V Venkata Padma	PRERANA 2K16	A.I.E.T	Ist position	2016
15	R Srinu K Manohar K SaiSrinivas K Ashok Kumar	PRERANA 2K16	A.I.E.T	Ist position	2016
16	K Chalapathi Rao B Ram Kumar K Dileep Kumar Reddy K Srinu	PRERANA 2K16	A.I.E.T	IInd position	2016

b) Student ( Academic Toppers):

S.No	Name of the Student & Roll No	Year	Award
1	D.PAVANI (08811A0219)	2012	Gold Medal
2	LOV K PUNJABI (09811A0226)	2013	Gold Medal
3	KALURI SURESH KUMAR (10811A0224)	2014	Gold Medal
4	NARLAMA HANTHI AVINASH (12815A0208)	2015	Gold Medal
5	KALIMI CHALAPATHI RAO	2016	Gold Medal

c) Faculty achievements:

S.no	Name of the Faculty	year	Award
1	T.Srinivasa Rao	2012	Best teacher Award from JNTU,kakinada

24. List of eminent academicians and scientists/ visitors to the Department:

S.No	Academic Year	Name of the Academician/ Scientist	Designation	Organization
1	2010	Prof. V .Bapiraju	Member Board of Governors	AUCE, VSP
2		P. Trimurthulu	Scientist-F	NSTL
3		K.V.Rao	DGM(Elect)	NTPC
4		Prof U. Tataji	Vice-Chairman	APSCH

5		N.Sudhakar	DGM(Elect)	VSP
6		B.M.Mohan	Dept. of EEE	IIT KGP
7		T. Ramesh	C.E.	APTRANSCO
8	2011	G.Ravi Kumar	Scientist-F	NSTL
9		M.RamalingaRaju	HOD	JNTUK
10		E. Kali Prasad	DGM(HOD of Electrical MMSM),	VSP
11	2012	N. Prasad,	CGM,	APEPDCL
12		Ch. Sai Babu,	Prof. elect, Director admissions	JNTUK
13		P. MallikarjunaRao	Prof. EEE	AUCE
14		B. Murali Mohan	Dept of EE	IIT KGP
15	2013	N Prasad	CGM Projects & Quality Control	APEPDCL, Visakhapatnam
16		K BhimeswaraRao,	SE, TL & SS	APTRANSCO Visakhapatnam
17	2014	G.Ravi Kumar	Scientist-F	NSTL
18		K.SrinivasaRao	Deputy Engineer	AP Transco
19		Prof.Saisrinivas	Assoc. in IIT , Madras	IIT , Madras
20	2015	Dr.DeepakL.Waikar	Managing Partner	Edu Energy Consultants LLP, Singapore
21		Sri J.Satyanarayana,I.A.S	Adivisor IT	Govt.ofAndhraPradesh
22	2016	M. VenkataRatnam	Sc. H ,BARC,VSP	BARC,VSP
23		Prof. Jayantha Pal	Professor in IIT Bhubaneswar	Professor in IIT Bhubaneswar

## 25. Seminars/ Conferences/ Workshops organized & the source of funding

a) National

S.No	Academic Year	Name of the Seminar/ Conference/ Workshop	Date(s)	Source of funding
1	2015-16	PRERANA 2K16	12 <sup>th</sup> ,13 <sup>th</sup> March	College



			2016	
2	2014-15	ANVESHANA 2K15	13&14 <sup>th</sup> Feb 2015	College
3	2013-14	CHATURA 2K14	4&5 <sup>th</sup> Apr,2014	College
4	2012-13	OMNIS 2K13	28 <sup>th</sup> Feb 2013	College
5	2011-12	E-QUBE 2K12	07 <sup>th</sup> Feb 2012	College
6	2010-11	ZAKTI 2K11	12 <sup>th</sup> March 2011	College

b) International :

S.No	Academic Year	Name of the Seminar/ Conference/ Workshop	Date(s)	Source of funding
1	2014-15	Skill Development Workshop on Sustainable and clean energy technological & Resources	22&23 January 2015	College

## 26. Student Profile Programme/Course wise:

Academic Year	Name of the Course/ Programme	Applications Received	Selected (Number Enrolled/ Admitted including Lateral Entry)	Enrolled		Pass %
				Male	Female	
2012-13	B.Tech (EEE)	60	66	55	11	81.81 %
2013-14		60	67	56	11	73.43 %
2014-15		60	61	58	13	70.68 %
2015-16		60	58	52	6	61.12 %
2012-13	M.Tech (PE)	18	17	13	4	76%
2013-14		24	13	8	5	34%
2014-15		24	11	8	3	36%
2015-16		24	15	12	3	46.6%
2014-15	M.Tech (PS)		8	6	2	25%
2015-16		18	12	10	2	41.6%

\*Admissions are through EAMCET/PGECET/GATE counseling of AP State Govt.

## 27. Diversity of Students

Year of Admission	Name of the Course	% of Students from the Same State	% of Students from the other State	% of Students from abroad
2012-13	B.Tech (EEE)	100	--	--
2013-14		100	--	--
2014-15		100	--	--
2015-16		100	--	--
2012-13	M.Tech (PE)	100	--	--
2013-14		100	--	--
2014-15		100	--	--
2015-16		100	--	--
2014-15	M.Tech (PS)	100	--	--
2015-16		100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc.,

Name of the Competitive Examination	No. of Students Qualified				
	2011-12	2012-13	2013-14	2014-15	2015-2016
GATE	2	3	2	1	1
PGECET	7	8	11	13	8
GRE	-	-	-	-	1

29. Student Progression

Student Progression for last 4-Years	Against % Enrolled
UG to PG	20
PG to M.Phil	NA
PG to Ph.D	2
Ph,D to Post-Doctoral	NA
<b>Employed</b>	
• Campus Selection	31
• Other than Campus Recruitment	6
Entrepreneurship/ Self – Employment	5

30. Details of Infrastructural Facilities

a) Library:

No. of Titles	No. of Volumes	No. of Computers	No. of E- Journals	No. of Print Journals
		30	01	04

b) Department Library:

No. of Titles	No. of Volumes
120	200

c) Internet facilities for Staff & Students:

20 Mbps broad band leased line from BSNL

d) Class rooms with ICT facility:

S.No .	Room Description	Usage	Shared/Exclusive?	Capacity	Rooms equipped with
1	N-24	Seminar Hall	Exclusive	200	Glass board, PC, LCD projector
2	Ground Floor	Conference Hall	Exclusive	30	PC and LCD projector
3	MB 31	Class room	Exclusive	60	Glass board, laptop, LCD projector

e) Laboratories:

S.No	Name of the Laboratory	Area (Sq. Mts)
1.	Electrical Machines – I,II	153.4sqm,
2.	Power Electronics/Control Systems Lab	93.5 sqm
3.	Power Systems	66.7 sqm
4.	Electrical Circuits/ Electrical Measurements Lab	93.5 sqm
5.	Electrical Simulation/Project Lab	75.92 sqm

**Curriculum Labs:**

S.No	Name of the Laboratory	Branch	Physical Lab
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1	Electrical Circuits Lab	EEE,ECE	Electrical Circuits/ Electrical Measurements Lab
2	Electrical Machines-I	EEE	Electrical Machines – I,II
3	Electrical Machines-II	EEE	Electrical Machines – I,II
4	Electrical Technology	ECE	Electrical Machines – I,II
5	Basic Electrical Engineering Lab	MECH	Electrical Machines – I,II
6	Electrical Measurements Lab	EEE	Electrical Circuits/ Electrical Measurements Lab
7	Control Systems Lab	EEE	Power Electronics/Control Systems Lab
8	Power Electronics Lab	EEE	Power Electronics/Control Systems Lab
9	Power Systems Lab	EEE	Power Systems
10	Electrical Simulation Lab	EEE	Electrical Simulation/Project Lab
11	Project LAB	EEE	Electrical Simulation/Project Lab

**31. Number of students receiving financial assistance from college, university, government or other agencies**

a) B.Tech

Agency	No. of Students received financial assistance		
	2013-14	2014-15	2015-16
Government	143	173	182

b) M.Tech

Agency	No. of Students received financial assistance		
	2013-14	2014-15	2015-16
Government	14	24	42

**32. Details on student enrichment programmes (Special Lecture/ Workshops/ Seminars) with External Experts**

S.No	Year	Title of the Programme	Name of the Academician/ Scientist	Date(s)
1	2010 to 2011	Lecture on "AN INTRODUCTION TO NEURAL NETWORKS & ITS APPLICATIONS"	Prof. V .Bapiraju AUCE,vsp	27/03/2010
2		Lecture on "APPLICATION OF CONTROL SYSTEMS TO UNDER WATER VEHICLES"	P. Trimurthulu Scientist-F NSTL	27/03/2010
3		Lecture on "POWER QULITY"	K.V.Rao DGM(Electrical) NTPC	27/03/2010
4		PERSONALITY DEVELOPMENT & CHARACTER BUILDING	Prof U. Tataji Vice chairman APSCHE	27/03/2010
5		Lecture on "BASICS IN POWER ELECTRONICS"	N.Sudhakar DGM(Electrical) VSP	27/03/2010
6		Lecture on "AN OVER VIEW OF INDIAN POWER SECTOR AND POWER DISTRIBUTION AUTOMATION"	B.M.Mohan Dept. of EEE IIT KGP	28/09/2010
7		Lecture on "CHALLENGES OF POWER SYSTEM ENGINEER"	T.RAMESH C.E APTRANSCO	28/09/2010
8	2011 – 2012	Lecture on "ACTIVE AND REACTIVE POWERS, EXCITATION SYSTEMS AND POWER SYSTEM STABILIZER"	M.Ramalinga Raju HOD JNTUK	12/03/2011
9		Lecture on "CONTROL OF SYSTEMS WITH FLEXIBLE MODES"	G RAVI KUMAR Scientist-F NSTL	12/03/2011
10		Lecture on "EHV TRANSMISSION"	N.Prasad CGM APEPDCL	12/03/2011
11		Lecture on "AC & DC DRIVES"	E.Kali Prasad DGM VSP	12/03/2011
12	2012 – 2013	Lecture on "TRANSFORMERS: CONSTRUCTION, TESTING	Ch.Sai BABU Professor	07/02/2012
13				

		AND FAILURES”	EEE Dept,JNTUK	
14		Lecture on “ADVANCED CONTROL SYSTEMS”	Dr.P.Mallikarjunar ao Professor EEE Dept,A.U	07/02/2012
15		Lecture on “FUZZY APPLICATIONS IN POWER SYSTEMS”	B.Muralimohan Dept. of EEE IIT KGP	05/03/2012
16		Lecture on “Quality Assessments”	N.Prasad	12/08/2013
17	2013 – 2014	Lecture on “ Mechanical Design of Overhead Lines & Sub-Stations	k.Bhimeswara Rao SE APTRANSCO	21/10/2013
18	2014- 2015	Sustainable and clean Energy Technologies and Resources	Dr.DeepakL.Waik ar M.D Edu energy consultants singapore	22 and 23 <sup>rd</sup> January 2015
19	2015- 2016	Delivered lecture on “ Model order reduction and Genetic Algorithm”	Prof.Jayantha Pal IIT Bhuvaneswar	12-13 <sup>th</sup> March, 2016
20	2015- 2016	Delivered lecture on “ Overhead Transmission Systems”	M.VenkataRatnam Scientist-H BARC	12-13 <sup>th</sup> March, 2016

### 33. Teaching Methods adopted to improve student learning

- Class Monitoring Committees
- Guest Lectures by Academicians & Industrial Experts
- Distribution of Course Handouts
- Effective student counseling
- Maintenance of course files
- Special coaching classes for GATE/ competitive examination for students by the expertise faculty members of our department and experts from outside are conducted.
- Remedial classes are being conducted to slow learners for improving their academic performance
- Providing digital library for the students
- Apart from this we are following the teaching methods to improve the students learning:
  - Lecture Method (Chalk and Talk)
  - E-Learning
  - Small Group Discussions
  - Seminars

## Mini Projects

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

#### STUDENTS PARTICIPATION IN SOCIAL RESPONSIBILITIES

#### YEARLY PARTICIPANTS FROM THE DEPARTMENT:

YEAR	NO. OF STUDENTS
2015 - 2016	15
2014 - 2015	10
2013 - 2014	10
2012 - 2013	15

#### ACTIVITIES:

- 1 National Day(s) Celebrations.
- 2 Social Responsibility Activities
  - Go Green Activity through plantation
  - Blood Donation
  - Visiting Hospitals & Interacting with patients and distribution of nutritious food.

#### AWARENESS PROGRAMS on:

- 1 AIDs
- 2 Communicable Diseases
- 3 Personal Local Public Health
- 4 Trauma Care
- 5 Disaster Management
- 6 Empowerment Of Girl Childs
- 7 R T I
- 8 Campus Cleanliness & Sanitation
- 9 Medical Camps.

There was a rally by NSS Unit in collaboration with Avanthi Group of colleges at beach road protesting against a gang rape of Miss. Nirbhaya @ 23-12-2012



Campus cleaning: NSS Volunteers regularly clean the campus under the banner Clean and Green.

### 35. SWOT analysis of the Department and Future Plans

#### Strengths:

- Well qualified and Committed Industry experienced faculty and faculty from IIT's and prestigious universities.
- Focused approach for the career development of students and skill based learning.
- Systematic monitoring of teaching – learning process
- Good Team Spirit among faculty resulting in knowledge sharing and enhancing research abilities.

#### Weaknesses:

- Lack of industrial research and consultancy
- Poor Communication skills of students
- Not able attract good rankers due to proximity

#### Opportunities:

- To enter into MOUs with reputed academic and industrial organizations like NSTL, ANRAK.
- 8000 crore worth project Aluminum Refinery (ANRAK) situated about 10Km about 2000 employees and 200 MW generation unit can utilize service of the department for obtaining Degree/Diploma. To provide more industry relationship with department by taking real – time industry based project, plant visits and about 400 engineers working in the organization can help us in promoting Quality education and faculty can be promote to consultancy work.
- 1000 crore worth **Food processing plant** at Ramapalem by Govt. of Andhra Pradesh can accommodate electrical engineering graduates of the department.





### **Challenges:**

- To transform and motivating students having poor attitude behavior and talent can finally made them to fit with industry needs.
- Retention of faculty

### **Future Plans**

- To encourage the faculty towards research and to obtain doctoral degree.
- To establish advanced and industry oriented laboratories.
- To establish center for excellence in one or more thrust areas of Electrical Engineering
- To achieve 70% placements among eligible candidates through campus selections.

## **Evaluation report of the Department of Mechanical Engineering**

1. **Name of the department:** Mechanical Engineering
2. **Year of Establishment:** 2004
3. **Names of Programmes / Courses offered:** UG: B.Tech- Mechanical Engineering
4. **Names of Interdisciplinary courses and the departments/units involved**

The department Interdisciplinary courses are as follows

S.No.	Year/ Sem	Name of the Course	Name of the Department
1	I/ I	C-Programming	CSE
2	I/ I	C-Programming Lab	CSE
3	I/II	Professional Ethics and Human Values	MBA
4	I/II	IT Work shop	CSE
5	II/I	Basic Electronics & Electrical Engineering	EEE
6	II/I	Basic Electronics & Electrical Engineering Lab	EEE
7	II/I	Managerial Economics & Financial Analysis	MBA
8	III/I	IPR& Patents	MBA
8	III/II	Interactive computer graphics	CSE

### 5. Annual/ semester/choice based credit system (programme wise)

B.Tech semester based credit system with electives

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

The department Interdisciplinary courses are as follows

S.No.	Year/Sem	Name of the Course	Name of the Department
1	I/ I, II	Engineering Drawing	ECE,EEE,CSE
2	I/ I, II	Engineering Workshop	ECE,EEE,CSE
3	I/II	Engineering Mechanics	ECE,EEE,CSE
4	II/I	Thermal & Hydro Prime Movers	EEE
5	II/I	Thermal & Hydro Lab	EEE

### 7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil

### 8. Details of Courses/ Programmes discontinued (if any) with reasons: Nil

## 9. Number of Teaching posts Sanctioned

Designation	Sanctioned	Filled
Professors	02	02
Associate Professors	08	08
Asst. Professors	36	36
Total	46	46

## 10. 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
1	Dr R UMA MAHESWARA RAO	M.E Ph.D	Professor	Industrial Engg	10
2	Dr. T VENKATESWARA RAO	M.E Ph.D	Professor	Industrial Engg	10
3	A RAM MOHAN RAO	M.E	Assoc. Prof	Industrial Engg.	12
4	B RAMESH	M.E (Ph.D)	Assoc. Prof	HTES	7
5	V HARI KIRAN	M.Tech	Assoc. Prof	CAD/CAM	7
6	S SUBRAMANYAM	M.Tech	Assoc. Prof	CAD/CAM	10
7	N PRAKASH KUMAR	M.Tech	Assoc. Prof	AMS	7
8	G MANGAMMA	M.E	Assoc. Prof	Industrial Engg.	7
9	K NAGA RAJU	M.Tech	Assoc. Prof	Machine Design	5
10	B T NAGA LAKSHMI	M.Tech	Assoc. Prof	CAD/CAM	6
11	S RAVI TEJA	M.Tech	Asst. Prof	Thermal Engg.	1
12	M UJWALA	M.Tech	Asst. Prof	Thermal Engg.	1
13	G S M REDDY	M.Tech	Asst. Prof	Heat Power Eng.	2
14	V VENKAYYA NAIDU	M.Tech	Asst. Prof	Aerospace Engg.	3
15	K KRISHNA	M.Tech	Asst. Prof	Machine Design	1
16	V SUMA PRIYA	M.Tech	Asst. Prof	Machine Design.	1
17	S GANESH	M.Tech	Asst. Prof	Mech. Engg	2
18	P SADHANA	M.Tech	Asst. Prof	Mech. Engg	3
19	D TRINADH	M.Tech	Asst. Prof	Mech. Engg	2
20	CH PHANINDER	M.Tech	Asst. Prof	Industrial Engg.	1
21	A PREM KUMAR	M.Tech	Asst. Prof	Machine Design	1
22	M S NAIDU	B.Tech	Asst. Prof	Mech. Engg	3
23	B NILEESH	B.Tech	Asst. Prof	Mech. Engg.	6
24	A N S SURYA PRAKASH	B.Tech	Asst. Prof	Mech. Engg	2
25	P ANUSHA	B.Tech	Asst. Prof	Mech. Engg	3
26	V KANAKA VARDHINI	B.Tech	Asst. Prof	Mech. Engg	3
27	M ESWAR TEJA	B.Tech	Asst. Prof	Mech. Engg	2
28	A PRADEEP KUMAR	B.Tech	Asst. Prof	Mech. Engg	3
29	P RAMA KRISHNA	B.Tech	Asst. Prof	Mech. Engg	3
30	N BHAVANI SHANKAR	B.Tech	Asst. Prof	Mech. Engg	1
31	K USHA RANI	B.Tech	Asst. Prof	Mech. Engg	3
32	K JYOTHI RANI	B.Tech	Asst. Prof	Mech. Engg	3
33	K V N S RAMA KRISHNA	B.Tech	Asst. Prof	Mech. Engg	3
34	S SWATHI	B.Tech	Asst. Prof	Mech. Engg	2
35	G SIVARAM	B.Tech	Asst. Prof	Mech. Engg.	1
36	P RAMU NAIDU	B.Tech	Asst. Prof	Mech. Engg	3

37	T G SUDHEER KUMAR	B.Tech	Asst. Prof	Mech. Engg	3
38	S ANUSHA	B.Tech	Asst. Prof	Mech. Engg	2
39	LVAMSI KRISHNA	B.Tech	Asst. Prof	Mech. Engg	2
40	G MOHANA RAO	B.Tech	Asst. Prof	Mech. Engg	1
41	M SANJAY	B.Tech	Asst. Prof	Mech. Engg	1
42	K ASHWINI	B.Tech	Asst. Prof	Mech. Engg	2
43	CH RAMESH	B.Tech	Asst. Prof	Mech. Engg	3
44	R RAMU	B.Tech	Asst. Prof	Mech. Engg	1
45	L RAJASEKHAR	B.Tech	Asst. Prof	Mech. Engg	1
46	V KRISHNA	B.Tech	Asst. Prof	Mech. Engg	3

**11. List of senior visiting faculty:** Nil

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** Nil

**13. Student –Teacher Ratio (Programme wise):** UG: 15:1

**14. Number of academic support staff (technical) and administrative staff and filled:**

The academic support staff (technical) and administrative and filled are listed below:

Staff Designation	Sanctioned	Filled
Academic Support Staff (Technical)	6	6
Administrative	2	2
Total	8	8

**15. Qualifications of teaching faculty with DSc/D.Litt/PhD/M.Phil/PG:**

The department consists of faculties with Professional degrees related to the field of Engineering

Ph.D – 02; M.Tech –19; B.Tech:25

**16. Number of faculty with ongoing projects a) National b) International:** Nil

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc., and total grants received:** Nil

**18. Research Centre/ Facility recognized by the University:** Nil

**19. Publications**

- **Number of publications listed in International Database (for E.g.: Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc.):** Nil
- **Monographs:** Nil
- **Chapters in Books:** Nil

- **Books Edited:** Nil
- **Books with ISBN/ISSN numbers with details of publishers:**

**Number of papers published in reviewed journals (National/ International):**

<b>Aced. YEAR</b>	<b>Student Publications</b>	<b>Faculty Publications</b>	<b>Student/Faculty Publications</b>	<b>Total Publications</b>
2013-14	Nil	Nil	Nil	Nil
2014-15	02	01	00	3
2015-16	02	02	05	9
2016-17	00	01	01	02 (till date)

• **Student Publications: 2014-15**

<b>S. No</b>	<b>Name</b>	<b>Name of the Topic</b>	<b>Name of the Conference/ Publication/ Year</b>
1	Summet Kumar S Dubey	Generation of electricity through atmosphere	International conference on emerging trends in engineering Research/22.3.2015/ ISBN:978-15-086565-24
2	Abhishek Kumar	A design of emission less engine	IRD INDIA / Vol:3/Issue:3/2015/ ISSN:2321-5747

• **Faculty/Student Publications:2014-15**

<b>S. No</b>	<b>Name</b>	<b>Name of the Topic</b>	<b>Name of the Conference/ Publication/ Year</b>
1	Summet Kumar S Dubey (S), B Ramesh(F)	Breaking of carbon dioxide using ultra violet rays	National Conference on Safety Environment and industrial applied science & Technology, Anna University, Chennai, Tamil Nadu-2015.

• **Faculty Publications: 2015-16**

<b>S. No.</b>	<b>Name</b>	<b>Name of the Topic</b>	<b>Name of the Conference/ Publication/ Year</b>
1	G.B M Krishna	A New Design Of Wagon Tippler	International Journal of Modern Engineering Research/ ISSN: 2249-6645. 2 <sup>nd</sup> National conference on developments, advances & trends in engineering science [NC-DATES2K16] PGNO.81-84

2	V Hari Kiran, S Ravi Teja, S Ganesh	Comparision of emissions by pure diesel with catalytic convertor and pure diesel without catalytic convertor on single cylinder Di-Diesel engine usinf five gas analyser	International Journal of Innovative Research in Technology-January 2016 Vol 2/ ISSUE 8/ISSN:2349-6002
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• **Student Publications: 2015-16**

S. No	Name	Name of the Topic	Name of the Conference/ Publication/ Year
1	D Teja	Retardation of jet palnes on warships by using capillarity	SS International of multidisplinary Research/ ISSN:2395-7965/v-2/i-6/2015/27-29
2	Mandeep Kaur, L Prasad, G Chandra Sekhar	Fabrication of vertical car parking system- A Prototype	International Journal of Innovative Research in Technology-April 2016 Vol 2/ ISSUE 11/ISSN:2349-6002

• **Faculty/Student Publications:2015-16**

S. No	Name	Name of the Topic	Name of the Conference/ Publication/ Year
1	V.Hari Kiran(F), L Babuba(S), L Suraj(S)	Performance improvement and wastage elimination in Thermal Power Plant	International Journal of Innovative Research in Technology-April 2016 Vol 2/ ISSUE 11/ISSN:2349-6002
2	Saroj Kumar Biswal(S), S M Sharukh rias (S), K Krishna (F),	Impact test analysis on a 2- wheeler helmet using 3D modeling and analyzing software for two different materials	International Journal of Innovative Research in Technology-April 2016 Vol 2/ ISSUE 11/ISSN:2349-6002
3	V.Hari Kiran(F), K.Uday(S), M.Praveen(S)	Fan Performance and utilization of Compressed air in Thermal Power Plant	International Journal of Innovative Research in Technology-April 2016 Vol 2/ ISSUE 11/ISSN:2349-6002
4	S.Raviteja(S), Biswas Kumar(S),	Performance and Emission Investigation on Single Cylinder DI-Diesel Engine with catalytic	International Journal of Innovative Research in Technology-April 2016

	Shahbaaz (S)	converter using Bio-Diesel	Vol 2/ ISSUE 11/ISSN:2349-6002
5	R Kishore (S), S Saidu (S), V Hari Kiran (F), S Ganesh (F)	Reducing the defects rate by the implementation of six sigma technique at led-bulbs manufacturing company	International Journal of Innovative Research in Technology-May- 2016 Vol 2/ ISSUE 12/ ISSN:2349-6002

• **Faculty Publications 2016-17**

S. No	Name	Name of the Topic	Name of the Conference/ Publication/ Year
1	S Ganesh	Implementation of lean six sigma Techniques in or at LED bulbs manufacturing company and any small scale industries to improve working standards	International Journal of Innovative Research in Technology-July 2016 Vol 3/ ISSUE 2/ISSN:2349-6002

• **Faculty/Student Publications:2016-17**

S. No	Name	Name of the Topic	Name of the Conference/ Publication/ Year
1	Ch Bhagavan Naidu (S), Palleti Sadhana	Design and Analysis of Innovative Seating System for safety purpose in automobiles	International Journal of Innovative Research in Technology-July 2016 Vol 3/ ISSUE 1/ISSN:2349-6002

- **Citation Index:** Nil
- **SNIP:** Nil
- **SJR:** Nil
- **Impact factor:** 2 TO 2.5
- **H-index:** Nil

**20. Areas of consultancy and income generated:** Nil

**21. Faculty as members in**

- a) **National committees:** Nil
- b) **International Committees:** Nil
- c) **Editorial Board:** Nil
- d) **Professional body membership:**

Sl. No	Name of the faculty	Name of the professional body
1	V Hari Kiran	ISTE-LIFE MEMBER
2	S Ravi Teja	ISTE-LIFE MEMBER

**22. Student projects for the academic year 2015-16**

- a) Percentage of students who have done in-house projects including inter departmental/programme : 75%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 25%**

**23. Awards / Recognitions received by faculty and students**

- **Faculty achievements:** Faculty secured more than 90% are appreciated with certificate.
- **Student achievements:**

Sn. No	Name of the Student	Event Name/Year	Secured	Venue
1	Saroj Kumar Biswal	The HINDU-Inter college challenge-2014/Debat	Participated	MVGR college of Engg., Vizianagaram
2	Summet Kumar Dubey	AVISHKAR-2K15/2015/ Paper Presentation	Second	AIET, Makavarapalen
3	Summet Kumar Dubey	TECH REPARIO/2014/Paper Presentation	First	AIET, Makavarapalen
4	Summet Kumar Dubey	Mechania/2014/ Paper Presentation	First	Miracle, Bhogapuram
5	Summet Kumar Dubey	RPCORP/2014/ INTERNATIONAL CONFERENCE	Participated	ICREEE, Vijayawada
6	Summet Kumar Dubey	UMANG-2K15/2015/PPT	First	AIET, Bhogapuram
7	Biswas Kumar	UMANG-2K15/2015 /Paper Presentation	First	AIET, Bhogapuram
8	Summet Kumar Dubey	NCEIAST/2015/National Confrence/ Paper Presentation	participated	Ana University, Chennai
9	Summet Kumar Dubey	UMANG-2K15/2015 /PPT	First	AIET, Bhogapuram
10	Biswas Kumar	The HINDU-Inter college challenge-2014/Debat	Participated	MVGR college of Engg., Vizianagaram
11	Summet Kumar Dubey	Ibrant/2015/	Participated	DIET, Anakapalle
12	Summet Kumar Dubey	ELEKTRIKOTSAV/201PPT	First	Viet, Visakhapatnam
13	Summet Kumar Dubey	Eastern Power Distribution company of A.P Ltd./A.PROOFTOP SOLAR/2015	First	Viswa Priya Function Hall/Visakhapatnam
14	Summet Kumar Dubey	UMANG-2K15/2015/Paper	First	AIET, Bhogapuram



		Presentation		
15	Biswas Kumar	Mechania/2015/ Paper Presentation	Second	Miracle, Bhogapuram
16	Shahabaz Khan	Mechania/2015/ Paper Presentation	First	Miracle, Bhogapuram
17	Abhishek Kumar Singh	AVISHKAR-2K15/2015/ Paper Presentation	Second	AIET, Makavarapalen
18	Saroj kumar biswal	UMANG-2K15/2015/Paper Presentation	Participated	AIET, Bhogapuram
19	Saroj kumar biswal	AVALUZION/2014/ Essay Writing	Participated	AIET, Bhogapuram
20	Dadi Teja	Techtronoics/2015/Paper presentation	Second	WISTAM, Visakhapatnam
21	Saroj kumar biswal	Mechania/2015/ Paper Presentation	second	Miracle, Bhogapuram
22	Dadi Teja	ELETRIKOTSAV/2015/PPT	First	Viet, Visakhapatnam
23	Dadi Teja	UMANG-2K15/2015/Paper Presentation	Second	AIET, Bhogapuram
24	Saroj kumar biswal	Chaitanyam/2015	Second	Chaitanya Engg. College, Visakhapatnam
25	Saroj kumar biswal	AVISHKAR-2K15/2015/ Paper Presentation	First	AIET, Makavarapalen
26	K Sampath Santosh	ELETRIKOTSAV/2015/PPT	First	Viet, Visakhapatnam
27	Abhishek Kumar Singh	TECH REPARIO/2014/Paper Presentation	First	AIET, Makavarapalen
28	Saroj kumar biswal	TECH REPARIO/2014/Quiz	First	AIET, Makavarapalen
29	Sumeet Kumar Dubey	AVALUZION/2014/ Quiz	Participated	AIET, Bhogapuram
30	Biswas Kumar	AVISHKAR-2K15/2015/JAM	First	AIET, Makavarapalen
31	Sumeet Kumar Dubey	AVALUZION/2014/ Essay Writing	Participated	AIET, Bhogapuram
32	Biswas Kumar	AVALUZION/2014/ Essay Writing	Participated	AIET, Bhogapuram
33	Biswas Kumar	AVALUZION/2014/ Quiz	Participated	AIET, Bhogapuram
34	Biswas Kumar	TECH REPARIO/2014/Quiz	Second	AIET, Makavarapalen
35	Biswas Kumar	AVISHKAR-2K15/2015/Paper Presentation	First	AIET, Makavarapalen
36	Saroj kumar biswal	AVISHKAR-2K15/2015/ Quiz	Participated	AIET, Makavarapalen
37	Sumeet Kumar Dubey	A.P Pollution Control Board/2015/Essay Writing	Participated	Visakhapatnam
38	S Naveen	Techzion/Fox Hunt/2014	First	NIT/Warangal
39	K Sampath Santosh	Torque/2014/Texhibit	Participated	JNTU, Kakinada
40	K Sampath Santosh	Torque/2014/Treasure Hunt	First	JNTU, Kakinada
41	D Teja	AVALUZION/2014/ Debate	first	AIET, Bhogapuram
42	K Sampath Santosh	Vivaan/2105/Spot Event	Participated	GVP COE/ Visakhapatnam
43	K Sampath Santosh	Vivaan/2105/Treasure Hune	First	GVP COE/ Visakhapatnam
44	Sumeet Kumar Dubey	AVISHKAR-2K15/2015//Poster presentation	Second	AIET, Makavarapalen
45	Abhishek Kumar Singh	AVISHKAR-2K15/2015/Poster presentation	Second	AIET, Makavarapalen
46	D Teja	Yantrik/2015/Poster and Paper Presentation	Participated	KL University, Vijayawada
47	D Teja	Vitsastra/2015/Poster	First	VITS, Vishakapatnam

		Presentation		
48	S Naveen	Techzion/2014/Robo Circuit	Participated	NIT, Warangal
49	R Anil Kumar	Techzion/2014/Autonomous Robotics	Participated	NIT, Warangal
50	Shahabaz Khan	Techzion/2014/Autonomous Robotics	Participated	NIT, Warangal
51	A.Siva Ram, Ch Poorna Teja	Prerana/2016/Project Expo	First	AIET
52	Sumeet Kumar Dubey	DAE-BRNSsymposium condensed matter physics under extreme conditions (CoMPEC-2016) April 13-16,2016	Poster	BARC, Mumbai

### Sports Achievements (Students)

Sn. No	Name of the Student	Event Name/Year	Secured	Venue
1	G Murali	Boxing 2014-15	Participated	LPU,Punjab
2	G Murali	5000mts Running,2014	Silver	JNTU, Kakinada
3	G Murali	Boxing 2014-15	Silver	Suvarnabhoomi stadium, Visakhapatnam
4	G Murali	3 Kms Running,2015	First	Vignan , Visakhapatnam
5	G Murali	Boxing 2014-15	Gold	Lanka Grounds , Visakhapatnam
6	P Chaitanya Prabhu	Physique Men Championship, 2014	First	Chirala Engineering College, Chirala

### 24. List of eminent academicians and scientists / visitors to the department

- R Santosh Kumar, Research Engineer, ISUZI India Pvt. Ltd, Chennai.
- L S Rao, Vice-Preident, An-Rak Aluminum Limited, Visakhapatnam.
- N Hanumanth Reddy, Scientist, NSTL, Visakhapatnam.
- B V R Gupta, Professor, Former Dean, Andhra University, Waltair.

### 25. Seminars/ Conferences/Workshops organized & the source of funding

#### a) National b) International Technical Symposium c) Funded by institute

#### National Technical Symposium:

Name of the programme	Type	Year
Prerana	National Level Technical symposium	2016
Avishkar	National Level Technical symposium	2015
Tech Reparior	National Level Technical symposium	2014

#### Workshops:

Name of the programme	Type	Year
Make A Robo	National Level Workshop	2015

**Seminars:**

<b>Topic</b>	<b>Resource person</b>	<b>Duration</b>	<b>Participants</b>
Personality Development and Skill development	Dr. K V S G Murali Krishna Professor of civil Engineering JNT University Kakinada	1 day	IV- Mech
Solar Energy & Renewable Management	Prof. K Srinivas Reddy Department of Mechanical Engineering IIT-Chennai	1 day	IV- Mech
Mechanical Applications in Power Plant	Mr. K Ajay Assoc. Vice-President An-Rak Aluminim Limited	1 day	III, IV- Mech
Industrial Opportunities and HRM	Mr. L.S Rao Vice- President An-Rak Aluminim Limited	1 day	IV- Mech
Industrial Skill development	Mr. R. santosh Kumar Research Engineer , ISUZI	1 day	IV- Mech
Non Destructive Testing	Praveen Babu, MD, SVNDT	1 day	IV- Mech

**26. Student profile programme/course wise:**

<b>Academic Year</b>	<b>Applications received</b>	<b>Selected</b>	<b>Enrolled</b>		<b>Passed</b>	<b>Pass percentage</b>
			<b>*M</b>	<b>*F</b>		
2015-16	210	210	206	4	150	69%
2014-15	134	134	128	6	91	67
2013-14	70	70	57	13	58	83
2012-13	66	66	55	11	47	71
2011-12	61	61	51	10	53	86

\*M = Male \*F = Female

**27. Diversity of Students**

<b>Name of the Course</b>	<b>% of students from the same state</b>	<b>% of students from other States</b>
B.Tech 2016 Admitted	<b>98%</b>	<b>2%</b>

B.Tech 2015 Admitted	98%	2%
B.Tech 2014 Admitted	98%	2%
B.Tech 2013 Admitted	99%	1%
B.Tech 2012 Admitted	95%	5%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

S.No	Academic Year	Name of the Exam	Qualified
1	2012-13	GATE	01
2	2013-14	PGECET	03
4	2014-15	PGECET	02
5	2015-16	GATE	02
6	2015-16	PGECET	09
7	2015-16	ICET	03

29. Student progression of academic year 2015-16

Student progression	Against % enrolled
UG to PG	7%
<b>Employed</b>	
• Campus selection	20%
• Other than campus recruitment	18%

30. Details of Infrastructural facilities

Library:

**Central Library:**

S.No.	No. of Titles	No. of Volumes	No. of Journals/ Technical Magazines
1	1134	5218	National 12; International 06

**Department Library:**

S.No.	No. of Titles	No. of Volumes
1	152	198

S. Internet facilities for Staff & Students: Yes,

- Computer with internet are available in the HOD room.
- Faculty and students use internet facility in CAD lab facility Bandwidth 20 Mbps speed and Service Provider-BSNL

**S. Class rooms with ICT facility: 01**

**S. Laboratories:**

S. No	Name of the Laboratory	Area (sq.m)
1	Engineering Workshop	160
2	Mechanics of Solids & Metallurgy Lab	132
3	Production Technology Lab	150
4	Fluid Mechanics and Hydraulics lab	132
5	Machine Tools lab	132
6	Metrology & Instrumentation Lab	132
7	Thermal Engineering Lab	132
8	Heat Transfer Lab	132
9	Simulation Lab/ Project Lab	150

**31. Number of students receiving financial assistance from college, university, government or other agencies**

S. No	Academic Year	Type of Scholarship	No. of students Availed
1	2016-17	State Government	505
2	2015-16	State Government	509
3	2014-15	State Government	439
4	2013-14	State Government	348

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

**Special Guest Lectures:**

S. No	Name	Qualification	Designation	Subjects
1	B.V.R. Gupta	Ph.D	Former Professor, Andhra University	Kinematics and Machinery, Dynamics of Machinery
2	N .Suman	Ph.D	Professor, Andhra University	Mechanics of Solids, Engineering Mechanics
3	K Durga Prasad	Ph.D	Professor, GVPCOE, Visakhapatnam.	Refrigeration & Air conditioning, Thermodynamics

**Workshops:**

S. No	Module Description	Any other contributory	Duration	Resource person	Participation
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		<b>industry/institute</b>			
1	Work Shop	Academy Of robotics	2 days	Mr. Srikanth	84

### Seminars:

<b>S.No</b>	<b>Topic</b>	<b>Resource person</b>	<b>Duration</b>	<b>Participants</b>
1	Personality Development and Skill development	Dr. K V S G Murali Krishna Professor of civil Engineering JNT University Kakinada	1 day	IV- Mech
2	Solar Energy & Renewable Management	K Srinivas Reddy Department of Mechanical Engineering IIT-Chennai	1 day	IV- Mech
3	Industrial Opportunities and HRM	L.S Rao Vice- President An-Rak Aluminim Limited	1 day	IV- Mech
4	Industrial Skill development	R. santosh Kumar Research Engineer , ISUZI	1 day	IV- Mech
5	Material Management.	K.Naga Raju Vice- President An-Rak Aluminim Limited	1 day	IV- Mech
6	Heat Transfer And Thermal Engineering-Applications In Industry & Project Management.	Prof. M.Bangaru Babu NIT Warangal	1 day	IV- Mech
7	Teaching Methodologies	Prof. L.Saikumar, IPE, Hyderabad	1 day	IV- Mech

### 33. Teaching methods adopted to improve student learning

<b>S.No</b>	<b>Delivery method</b>
1	Chalk & Talk
2	Internet
3	OHP/LCD Projectors
4	Video Lectures
5	Tutorials
6	Assignments
7	Group Discussions
8	Student Demonstrations
9	Quiz
10	Project Models/ Proto types
11	Industrial Visits
12	Guest lecturers/ Seminars/work Shops

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

S.No	Name Of the Programme	No.Of Participants	Venue	Date
1	Swach Bharat	85	Narayana Raju Peta	Sep-2015
2	Blood donation camp	72	Rotary Club	Every year
3	Serving remote area schools for their needs (Optimistics)	90	Makavarapalem	Every Year Aug/Jan
4	Voter Enrollment Programmes	200	Our College	2014
5	Traffic Awareness	200	Our College	Sep-2014
6	Anti Ragging programmes	300	Our College	Every Year Aug
7	NSS	50	Serving the people Hud-Hud, Natural Disasters Etc.,	Oct-2014
8	Engineers Day	350	Our College	Every year sep 15 <sup>th</sup>
9	Teachers Day	400	Our College	Every year sep 5 <sup>th</sup>
10	Eamcet /Icet/Ecet/Polycet counseling Awareness Programme	More than 300	Narsipatnam	Every Year July Before the counseling



**OPTIMISTS MEET**



**DONATING**



**NSS**



**ANTI RAGGING**



**ENGINEERS DAY CELEBRATIONS**



**EAMCET/ECET COUNCELLING AWARENESS**



**WORKSHOP**

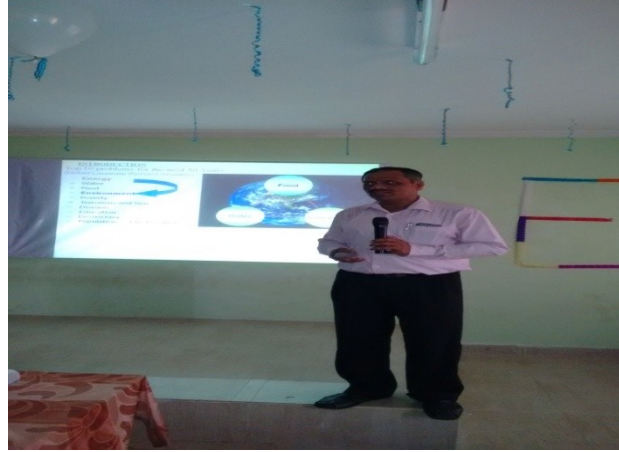


**INDUSTRIAL SEMINAR**





**INDUSTRIAL VISIT AT ANRAK**



**SEMINAR BY IIT-M PROFESSOR**

### 35. SWOC analysis of the department and Future plans

#### **Strengths**

- Able to attract and uplift local youth
- Experienced Faculty members
- Peaceful environment from pollution
- Good industries for the visits, Project Works, internships, industrial interaction with nearby industries like Hindustan Shipyard limited, BHEL, Visakhapatnam Steel Plant, An-Rak..,

#### **Weakness**

- Students are weak in communication due to rural background.
- Faculty/student publications are relatively less.
- Not able to attract top rankers of CET due to proximity.

#### **Opportunities**

- **An-Rak**-6000 cr. Aluminum Refinery 10kms. For college which can provide Mechanical Engineers to have Industrial Visits, Internships, Project Works, Industrial interactive Seminars.
- **Food Processing unit**- 650 cr sanctioned by Government of Andhra Pradesh at Ramannapalem village next to college can accommodate graduated students from the department.
- **Brandix**- 600cr apparel MNC Project situated at Atcyutapuram situated at 32kms nearby to college could help us in promoting Projects, Placements and Industrial Visits
- Increasing demand for Mechanical Engineering.

#### **Challenges**

- Inview of slowdown in Recruitment process by industries.

- Retaining of senior faculty due to several opportunities upcoming colleges are near to the city.
- To transform an young non serious mind into talented professionals.

**Future Plans:**

- To improve results.
- To initiate R&D Extension the centre of learning.
- To enhance the qualification of the faculty towards Research and to obtain Doctorial degree.
- To establish advanced Laboratories for pursuing research.

## EVALUATION REPORT OF DEPARTMENT OF MANAGEMENT STUDIES

1. **Name of the Department:** Department of Management Studies
2. **Year of Establishment:** 2006
3. **Name of Programmes/ Courses offered:** Master of Business Administration
4. **Name of Interdisciplinary courses:** IT-Lab –Ms Office, DBMS- CSE department
5. **Annual/Semester/choice based credit system (programme wise):** Semester system
6. **Participation of the department in the courses offered by other departments:**

S.No	Name of the	Semester	Name of the Department
1.	MEFA	II-I & III-I	B.Tech
2.	MS	II-II & IV-II	B.Tech
3.	OR	III-II	B.Tech - MECH
3.	IPR&P	III-II,	B.Tech
4.	PE&M	II	B.Tech

7. **Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.:** No
8. **Details of courses/programmes discontinued (if any) with reasons:**

Nil

### 9. Number of Teaching Posts Sanctioned

	Sanctioned	Filled
Professor	1	1
Associate Professor	3	3
Assistant Professor	13	13

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

Name	Qualification	Designation	Specialization	No.of years Experience	No.of Ph.D students guided in last 4years
Dr. M. Jyothi	MBA	Professor	Marketing/HR	2 yrs Teaching	N/A
V Sai Prasanth	MBA, PGDBM	Assoc. Professor	Marketing/HR	9yrs Industry, 5yrs Teaching	N/A
S.Sreenivas	M.Com, MBA	Assoc. Professor	Finance	10yrs Industry, 7yrs Teaching	N/A
U V Chandershekar	M.Com, MBA	Assoc. Professor	Finance/Marketing	12 yrs Teaching	N/A
A Adi Laxmi	MBA	Asst.Professor	Finance/Marketing	9 yrs Teaching	N/A
K Nooki Naidu	MBA	Asst.Professor	Finance/Marketing	6 yrs Teaching	N/A
R Satyanarayana	MBA	Asst.Professor	Finance/Marketing	2 yrs Industry, 5yrs Teaching	N/A
V K Vaikunta Rao	MBA	Asst.Professor	Finance/Marketing	5 yrs Teaching	N/A
L Krishna Veni	MBA	Asst.Professor	HR/Marketing	5 yrs Teaching	N/A
Ch Kavitha	MBA	Asst.Professor	Finance/Marketing	4 yrs Teaching	N/A
E.Roopa	MBA	Asst.Professor	Finance/Marketing	5yrs Teaching	N/A
G Vara Eswara Bhaskar	MBA	Asst.Professor	Marketing	4yrs Teaching	N/A
K Phanindar	MBA	Asst.Professor	Finance/Marketing	4yrs Teaching	N/A

K Kishore Kumar	MBA	Asst.Professor	Finance/Marketing	4yrs Teaching	N/A
P Krishna	MBA	Asst.Professor	Finance/Marketing	4yrs Teaching	N/A
Ch.Murali Krishna	MBA	Asst.Professor	HR/Marketing	4 yrs Teaching	N/A
P Sekar Babu	MBA	Asst. Professor	HR/Marketing	2 yrs Teaching	N/A

**11. List of Senior visiting Faculty**

Nil

**12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: Nil**

13. **Student – Teacher Ratio (programme wise):** 15:1

**14. Number of academic support staff (technical) and administrative staff and filled:**

	Sanctioned	Filled
Administrative	1	1
Technical	1	1

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

MBA : 16

**3 Faculty pursuing Ph.D**

S.NO	NAME	SPECIALISATION	UNIVERSITY
1	V SAI PRASANTH	MARKETING	GITAM UNIVERSITY, VISAKHAPATNAM
2	S.SREENIVAS	HUMAN RESOURCE MANAGEMENT	ANDHRA UNIVERSITY, VISAKHAPATNAM

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil**

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil**

**18. Research Centre /facility recognized by the University: Nil**

**19. Publications: Communicated**

S.No	Name of the faculty	Number of papers published	Name of the journal	Academic Year
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1	V Sai Prasanth	1	J.C.M.R international journal.	2016-17
2	V Sai Prasanth	1	The Open Access Journal Limited (theojal.com)	2016-17

**20. Areas of consultancy and income generated: nil**

**21. Faculty as members in**

**a) National committees b) International Committees c) Editorial Boards....**

Nil

**22. Student projects:**

**a. Percentage of students who have done in-house projects including inter departmental/programme: Nil**

**b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 100%**

S.N O	Name	Reg no	Topic	Company Name	SUPERVISOR
1	A.TULASIMANI	13811E0001	WORKING CAPITAL MANAGEMENT	CHODAVARAM CO-OPERATIVE SUGARS LTD.GOVADA, VISAKHAPATNAM.	S.SREENIVAS
2	A.V.SATYANARAYANA	13811E0002	WELFARE MEASURES	THE ETIKOPPAKA CO-OPERATIVE AGRICULTURAL & INDUSTRIAL SOCIETY LTD, ETICOPPAKA, VSP.	T.GOPI
3	B.SANYASI SETTY	13811E0004	EQUITIES vs MUTUAL FUNDS	EDELWEISS BROKING LTD., VISAKHAPATNAM.	E.ROOPA
4	C.RAVINDRABABU	13811E0005	PERFORMANCE APPRISAL	SUJANA METAL PRODUCTS LTD. VISAKHAPATNAM	L. KRISHNAVENI
5	CH.DEVI	13811E0006	PERFORMANCE APPRISAL	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	T.GOPI
6	C.ANOOJA DEVI	13811E0007	INVENTORY MANAGEMENT	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	K.NOOKI NAIDU
7	D.SIMHACHALAM NAIDU	13811E0008	CAPITAL BUDGETING	CHODAVARAM CO-OPERATIVE SUGARS LTD.GOVADA, VISAKHAPATNAM.	K.SANTHOSH KUMAR

8	D.A.RAMYA SUDHA	13811E0009	PERFORMANCE APPRISAL	NTPC LTD., SIMHADRI, VISAKHAPATNAM	L. KRISHNAVENI
9	D.KASIM VALI	13811E0012	RECRUITMENT AND SELECTION	IDUPULAPADU COTTON MILL PVT. LTD. GANAPAVARAM	T.GOPI
10	G.GAYATHRI	13811E0013	INVENTORY MANAGEMENT	THANDVA CO-OPERATIVE SUGARS LTD., PAYAKARAOPETA, VSP.	E.ROOPA
11	K.LOVARAJU	13811E0014	RATIO ANALYSIS	THE ETIKOPPAKA CO-OPERATIVE AGRICULTURAL & INDUSTRIAL SOCIETY LTD, ETICOPPAKA, VSP.	K.NOOKI NAIDU
12	K.PRAVALLIKA	13811E0015	WORKERS PARTICIPATION IN MANAGEMENT	NTPC LTD., SIMHADRI, VISAKHAPATNAM	L. KRISHNAVENI
13	K.NAGESWARARAO	13811E0016	PERFORMANCE APPRISAL	TIRUMALA MILK PRODUCTS PVT. LTD., NELLORE	T.GOPI
14	K.SWAMY	13811E0017	WELFARE ACTIVITIES AND BENEFICIARY SCHEMES	BRANDIX APPAREL INDIA PVT. LTD. VISAKHAPATNAM	L. KRISHNAVENI
15	K.GAYATHRI	13811E0018	EMPLOYEE WELFARE MEASURES	NTPC LTD., SIMHADRI, VISAKHAPATNAM	T.GOPI
16	K.MUKESH	13811E0019	FINANCIAL STATEMENT ANALYSIS	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	S.SREENIVAS
17	M.SOUJANYA	13811E0022	TRAINING AND DEVELOPMENT	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	T.GOPI
18	M.CHANDRA SEKHAR	13811E0024	RATIO ANALYSIS	COROMANDEL INTERNATIONAL LTD. VISAKHAPATNAM.	S.SREENIVAS
19	M.NAVEEN KUMAR	13811E0025	WORKING CAPITAL MANAGEMENT	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	S.SREENIVAS
20	K.NARESH KUMAR	13811E0026	PERFORMANCE APPRISAL	THE ETIKOPPAKA CO-OPERATIVE AGRICULTURAL & INDUSTRIAL SOCIETY LTD, ETICOPPAKA, VSP.	L. KRISHNAVENI

21	N.N.VASANTHA SRAVANI	13811E0027	HUMAN RESOURC E TRAINING AND DEVELOP MENT	EDELWEISS BROKING LTD., VISAKHAPATNAM.	V.SAI PRASANTH
22	O.PUJA SIRISHA	13811E0028	RATIO ANALYSIS	RASHTRIYA ISPAT NIGAM LTD., VISAKHAPATNAM	K.NOOKI NAIDU
23	P.RAJA SEKHAR	13811E0029	RATIO ANALYSIS	ITC., LTD., GUNTUR	K.SANTHOSH KUMAR
24	P.MURALI KRISHNA	13811E0030	WORKING CAPITAL MANAGE MENT	THANDVA CO-OPERATIVE SUGARS LTD., PAYAKARAOPETA,VSP.	E.ROOPA
25	P.VANI VISWANATH	13811E0032	RATIO ANALYSIS	CHODAVARAM CO-OPERATIVE SUGARS LTD.GOVADA,VISAKHAPATNA M.	S.SREENIVAS
26	P.RAMA KRISHNA	13811E0034	TRAINING AND DEVELOP MENT	J.S.L STAIN LESS LTD., KOTHAVALASA.	L. KRISHNAVEN I
27	P.RAJESH	13811E0035	INVENTO RY MANAGE MENT	THE ETIKOPPAKA CO- OPERATIVE AGRICULTURAL &INDUSTRIAL SOCIETY LTD, ETICOPPAKA,VSP.	E.ROOPA
28	P.GEEHA RANI	13811E0036	PERFORM ANCE APPRIASAL	SRI VIJAYA VISAKHA MILK PRODUCERS COMPANY LTD., VISAKHAPATNAM	K.SANTHOSH KUMAR
29	R.LAKSHMI NARAYANA	13811E0037	PERFORM ANCE APPRIASAL	UNIPARTS INDIA LTD.AP SEZ, ATCHUTHAPURAM.	V.SAI PRASANTH
30	S. SAI SANJANA	13811E0038	WELFARE MEASURE S	UNIPARTS INDIA LTD.AP SEZ, ATCHUTHAPURAM.	V.SAI PRASANTH
31	S.PRAVEEN KUMAR	13811E0039	RECRUIT MENT AND SELECTIO N	CHODAVARAM CO-OPERATIVE SUGARS LTD.GOVADA,VISAKHAPATNA M.	K.SANTHOSH KUMAR
32	S.VENKATA RAMANA	13811E0040	RATIO ANALYSIS	THE ETIKOPPAKA CO- OPERATIVE AGRICULTURAL &INDUSTRIAL SOCIETY LTD, ETICOPPAKA,VSP.	K.NOOKI NAIDU
33	S.RAJU BABU	13811E0041	CAPITAL STRUCTU RE	J.S.L STAIN LESS LTD., KOTHAVALASA.	K.SANTHOSH KUMAR
34	SK.MABHU SUBHANI	13811E0043	WORKING CAPITAL MANAGE MENT	KCP SUGARS AND INDUSTRIES CORPORATION LTD.,VUYYYURU	E.ROOPA



35	S.SANTHI	13811E0044	WORKING CAPITAL MANAGEMENT	THE ETIKOPPAKA CO-OPERATIVE AGRICULTURAL & INDUSTRIAL SOCIETY LTD, ETICOPPAKA,VSP.	K.NOOKI NAIDU
36	S.BALAJI	13811E0045	MUTUAL FUNDS PERFORMANCE	EDELWEISS BROKING LTD., VISAKHAPATNAM.	S.SREENIVAS
37	T.RAMESH	13811E0048	RATIO ANALYSIS	THANDVA CO-OPERATIVE SUGARS LTD., PAYAKARAOPETA,VSP.	E.ROOPA

**23. Awards / Recognitions received by faculty and students:**

SNO	NAME OF THE STUDENT	EVENT	INSTITUTE	YEAR	PRIZE
1	G Naga Jyothi/S Vivek	Finanace Quiz	A.I.E.T MANTRA 2K16	2016	II
2	S Nikitha	Paper Presentation	Samata College	2015	II
3	G Naga Jyothi/S Vivek	Paper Presentation	Samata College	2015	II
4	S Naidu/ T Bharati	Business Quiz	BABA College	2014	III
5	A Sri Vidya	JAM	BABA College	2014	II
6	A Anooja Devi	Paper Presentation	Samata College	2013	III
7	K Swamy	Group Discussion	Samata College	2013	III
8	R.Tanuja/ Sudhir	Business Quiz ASTHRA-12	Pydah College of Engineering and Technology	2012	II
9	M.Swathi	Paper Presentation ASTHRA-12	Pydah College of Engineering and Technology	2012	II
10	R.Sudheer Kumar	Group Discussion ASTHRA-	Pydah College of Engineering	2012	II

		12	and Technology		
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**24. List of eminent academicians and scientists / visitors to the department:**

S.no	Year	Name	Designation	Organisation
1	2012	P Srinivas	Asst.Manager	Edelweiss Broking Ltd
2	2012	Dhanujaya K	Entrepreneur	Owasis Lifts
3	2013	Sai Shankar Y	Zonal Manager	Sundaram Finance
3	2013	K Narayana Rao	Chief Administrative Officer	NSTL Visakhapatnam
4	2014	S Murali Krishna	Senior Manager-South	Reliance Life Insurance. Visakhapatnam
5	2014	P Srinivas	Asst.Manager	Edelweiss Broking Ltd
6	2015	Jagdish Pragada	Senior Vice President Marketing	Budding Leaf Infratech Pvt Ltd, Hyderabad.
7	2015	T.Gopi	HR manager	Biomax Pvt Ltd. Visakhapatnam.

**25. Seminars/Conferences/ Workshops organized & the source of funding a) National b) International**

S.No	Event	National/International	Funding Source	Year
1	MANTRA 2K16 One day Management Event	National	College/Sponsors	2016
2	A Seminar on HR Trends in Global Scenario	National	College	2015
3	A Seminar on Marketing Challenges in Banking	National	College	2015
4	Akiya 2k14, one day Management event	National	College/Sponsors	2014

5	A Seminar on Portfolio Management	National	College	2014
6	Akiyatha 2k13 One day Management Event	National	College	2013
7	Suprayoga 2k12 One day Management Event	National	College	2012

## 26. Student profile programme/course wise:

Name of the Course/programme	Applications Received	Applications Enrolled	Male	Female	Pass Percentage
2012-14	49	49	40	9	98%
2013-15	48	48	32	16	98%
2014-16	83	83	64	19	72%
2015-17	72	72	54	18	Awaiting

## 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
PG (2015 admitted)	100%	Nil	Nil
PG (2016 admitted)	100%	Nil	Nil

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:

NIL

## 29. Student progression

Student progression	Against % enrolled 2011-13	Against % enrolled 2012-14	Against % enrolled 2013-15
UG to PG	N/A	N/A	N/A
PG to M. Phil.	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil
Employed	30%	35%	35%
• Campus selection			
• Other than campus recruitment	2%	5%	15% round (20-30)
Entrepreneurship/Self-employment	3%	2%	3%

**30. Details of Infrastructural facilities****a) Library:** Yes**b) Internet facilities for Staff & Students:** 20Mbps**c) Class rooms with ICT facility:**

S.No	Room Description	Usage	Shared/Exclusive	Capacity	Rooms equipped with
1	N-24	Seminar Hall	Exclusive	200	Glass board,PC,LCD projector
2	Ground Floor	Conference Hall	Exclusive	30	PC and LCD projector

**d) Lab: Computer lab for IT-Lab****31. Number of students receiving financial assistance from college, university, Government or other agencies**

Agency	No. of students received financial assistance			
	2012-14	2013-15	2014-16	2015-17
College			2	2
Government	49	48	83	70

**31. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts**

S.No.	Topic	Name of the Invitee	Designation	Firm	Year
1	What industries demanding?	Sri P Madhusudan	CMD Steel Plant	RINL Visakhapatnam	2015-16
2	Ragging free Professional colleges	Ch. Srikanth	D.I.G Vizag Range	Police Department	2015-16
3	HR Trends in	P Mani	GM HR	Aurobindo Pharma	2015-16

	Global Scenario	Prasad	Manager		
4	Marketing Challenges in Banking	S Ravi	Chief Manager	Kotak Mahindra	
5	HR role in the industry & its impact	T.Gopi	HR manager	Biomax Pvt Ltd. Visakhapatnam.	2014-15
6	Role of Marketing & its importance	Jagdish Pragada	Senior Vice President Marketing	Budding Leaf Infratech Pvt Ltd, Hyderabad.	2014-15
7	Lecture on Portfolio Management	P Srinivas	Branch Manager	Edelweiss Broking Limited	2013-14

### 33. Teaching methods adopted to improve student learning through:

- ❖ Chalk & Talk
- ❖ PPT and audio/Video sessions
- ❖ Tutorial classes and class tests
- ❖ Remedial classes for slow learners
- ❖ Assignments
- ❖ Internal assessment
- ❖ Seminar by the students
- ❖ Workshops and guest lecturers
- ❖ Industrial Visits.

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- ❖ Blood donation Camps (DATA MBA)
- ❖ World AIDS Day Rally
- ❖ Clean and Green programme
- ❖ Nirbhaya Rally
- ❖ Voter enrollement awareness Programme
- ❖ Pulse polio Programme
- ❖ Free eye Check up camps

### 35. SWOT analysis of the department and Future plans

#### Strengths

- ❖ Qualified and Dedicated faculty and supporting technical staff.
- ❖ Excellent regional reputation.
- ❖ Excellent academic results & campus placement.
- ❖ Good library facility for students and staff.
- ❖ Good learning atmosphere.

### **Weaknesses**

- ❖ Number of PhD's
- ❖ Students and faculty publications are relatively less.
- ❖ Students learning levels are low due to rural background
- ❖ Faculty with limited industrial and research experience.

### **Opportunities**

- ❖ 100 Cr. Company ( BRANDIX-APPERALS) provides internships and subsequently providing employment in the company as per their needs.

### **Challenges**

- ❖ Less number of Management Education aspiring students
- ❖ Delay in admissions due to government policies.
- ❖ Students inclination towards city based colleges
- ❖ Attracting meritorious students
- ❖ Transforming non serious young minds to professionals

### **Future Plans**

- ❖ To initiate mini projects to provide market awareness to the students.
- ❖ A special focus on students to reduce MTI in their language.
- ❖ To make students aware of software skills required for a Manager.
- ❖ To encourage the faculty towards research & Doctoral degree.

807  
12/10

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. 8-271/2013 (CPP-I/C)

September, 2013  
30 SEP 2013

The Registrar,  
Jawaharlal Nehru Technological University  
Kakinada – 533 003  
Andhra Pradesh

**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. nil dated 12.07.2013 received from the Principal, Avanthi Institute of Engineering and Technology, Tamaram, Makavarapalem, Narsipatnam, Visakhapatnam Dist. – 531 113, Andhra Pradesh 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, Kakinada**. 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**':-

Name of the College	Year of Establishment	Remarks
Avanthi Institute of Engineering and Technology, Tamaram, Makavarapalem, Narsipatnam, Visakhapatnam Dist. – 531 113, Andhra Pradesh.	1999	The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes 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,

(P.K. Sharma)  
Under Secretary

Copy to:-

1. The Principal, Avanthi Institute of Engineering and Technology, Tamaram, Makavarapalem, Narsipatnam, Visakhapatnam Dist. – 531 113, Andhra Pradesh.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of 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.

(P.K. Sharma)  
Under Secretary



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](http://www.aicte-India.org)

F.No. South-Central/1-2813229462/2016/EOA

Date: 25-Apr-2016

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 2016-17**

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

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

Regional Office	South-Central	Application Id	1-2813229462
Name of the Institute	AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY	Permanent Id	1-6296166
Name of the Society/Trust	AVANTHI EDUCATIONAL SOCIETY	Institute Address	TAMARAM VILLAGE, MAKAVARAPALEM MANDAL, NARSIPATNAM REVENUE DIVISION, VISAKHAPATNAM DIST., VISAKHAPATNAM DIST, VISHAKHAPATNAM, Andhra Pradesh, 531113
Institute Type	Unaided - Private	Society/Trust Address	8-2-293/82/F-II/A-12, PLOT NO.12, FILM NAGAR, JUBILEE HILLS, HAKEEMPET, HYDERABAD, HYDERABAD, HYDERABAD, Andhra Pradesh, 500034

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

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2813229462			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status*
Program	Shift	Level								
ENGINEERIN	1st Shift	POS T	COMPUTER SCIENCE AND	FULL TIME	Jawaharlal Nehru	24	24	NA	NA	NA





G AND TECHNOLOGY		GRADUATE	ENGINEERING		Technological University, Kakinada					
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI DESIGN	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AGRICULTURAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	0	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	180	180	NA	NA	NA
	1st	UNDER	MECHANICAL	FULL	Jawaharlal	180	180	NA	NA	NA



ENGINEERING AND TECHNOLOGY	Shift	ER GRADUATE	ENGINEERING	TIME	Nehru Technological University, Kakinada					
ENGINEERING AND TECHNOLOGY	2nd Shift	DIPL OMA	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	State Board of Technical Education, SBTET, Andhra Pradesh	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	DIPL OMA	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	State Board of Technical Education, SBTET, Andhra Pradesh	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	DIPL OMA	MECHANICAL ENGINEERING	FULL TIME	State Board of Technical Education, SBTET, Andhra Pradesh	60	60	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Jawaharlal Nehru Technological University, Kakinada	120	120	NA	NA	NA

The above mentioned approval is subject to the condition that AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY 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.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Dr. Avinash S Pant**  
**Vice - Chairman, AICTE**

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
First Floor, old BICARD Building



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](http://www.aicte-India.org)

- Jawaharlal Nehru Technological University  
Masab Tank, Hyderabad-500076
2. **The Director Of Technical Education,**  
Andhra Pradesh
  3. **The Registrar,**  
State Board of Technical Education, SBTET, Andhra Pradesh
  4. **The Principal / Director,**  
AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY  
TAMARAM VILLAGE,  
MAKAVARAPALEM MANDAL,  
NARSIPATNAM REVENUE DIVISION,  
VISAKHAPATNAM DIST.,  
VISAKHAPATNAM DIST., VISHAKHAPATNAM,  
Andhra Pradesh,531113
  5. **The Secretary / Chairman,**  
AVANTHI EDUCATIONAL SOCIETY  
8-2-293/82/F-II/A-12, PLOT NO.12, FILM NAGAR, JUBILEE HILLS, HAKEEMPET, HYDERABAD,  
HYDERABAD, HYDERABAD,  
Andhra Pradesh,500034
  6. **Guard File(AICTE)**



PROCEEDINGS OF THE  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
KAKINADA-533 003. ANDHRA PRADESH (India)  
(Established by Andhra Pradesh Act No.30 of 2008)

Proc.No. DAP/B1/Affi/Avanthi IET/2015

Date: 5.1.2016

- Sub: JNTU Kakinada – Academics & Planning – Grant of Permanent Affiliation from the academic year 2015-16 to “Avanthi Institute of Engineering & Technology, Narsipatnam Revenue Division, Visakhapatnam District, Andhra Pradesh – Orders – Issued.
- Read: 1. AICTE Lr. F.No. South - Central/1-2453892942/2015/EOA, Corrigendum -1, dated 26.05.2015.  
2. Univ. Proc. No. DAP/B1/Affiliation/FFC/2014, dated 27-05-2015.  
3. Note orders dated 5.01.2016 of the Hon'ble Vice-Chancellor, JNTUK.

\*\*\*

**ORDER :**

1. The “Avanthi Institute of Engineering & Technology, Narsipatnam Revenue Division, Visakhapatnam District, Andhra Pradesh” was given Permanent affiliation for running UG/PG courses for three Years from the academic year 2015-16.
2. The AICTE, New Delhi has accorded extension of approval to the above college for the academic year 2015-16 vide ref. (1) read above. The University has constituted a Fact Finding Committee to verify the staff and infrastructure facilities of the college to consider the grant of Permanent affiliation from the academic year 2015-16 vide Procs. (2) Read above. The Fact Finding Committee has visited the college and submitted its report to the University and the same was placed before the University Standing Committee. The Standing Committee has verified the report of the Fact Finding Committee and other documents and made recommendations for Permanent affiliation from the academic year 2015-16.
3. Under the circumstances as stated above, the Vice-Chancellor, JNTUK Kakinada is pleased to grant **Permanent Affiliation** to “Avanthi Institute of Engineering & Technology, Narsipatnam Revenue Division, Visakhapatnam District, Andhra Pradesh” sponsored by “Avanthi Educational Society, Film Nagar, Hyderabad” to offer UG/PG Courses in the following disciplines with the intake shown against each for the period of **Three Years** from the Academic Year 2015 – 16 as detailed below:

S. No	Name of the Course	Intake
1	Computer Science & Engineering	180
2	Agricultural Engineering	60
3	Electronics & Communication Engineering	180
4	Electrical & Electronics Engineering	60
5	Mechanical Engineering	180
6	M. Tech – Digital Electronics & Communication Systems	18
7	MBA	120

Contd.....2p

8	M. Tech – Computer Science & Engineering	24
9	M. Tech – Power Systems	18
10	M. Tech – Power Electronics	24
11	M.Tech – VLSI Design	18

The Permanent Affiliation shall be subject to the following conditions:

1. The Management shall follow the norms of AICTE and rules of the affiliation of JNT University Kakinada in all aspects.
2. The Management shall follow the Academic Regulations and examination schedule of JNT University Kakinada.
3. During the period of Permanent Affiliation, the College needs to submit annual report along with Affiliation fee. During the period of Permanent Affiliation the College is exempted from the payment of Application & Inspection fee.
4. The University can withdraw the Permanent Affiliation at any time, if the College does not satisfy the standards and norms of the University for Affiliation.

  
REGISTRAR

To  
The Principal,  
Avanthi Institute of Engineering & Technology,  
Narsipatnam Revenue Division,  
Visakhapatnam District, Andhra Pradesh.

Copy to:

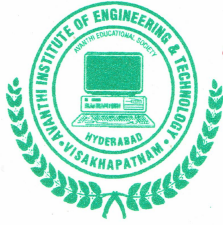
- The Chairman/Secretary, Avanthi Educational Society, Filim Nagar, Hyderabad.  
The Principal Secretary to Government Higher Education (EC.2) Dept., Govt. of Andhra Pradesh, Secretariat, Hyderabad.  
The Secretary, A.P. State Council of Higher Education, Mahavir Marg, Hyderabad-4.  
The Commissioner of Technical Education, SBRKR Govt. Office Complex, Hyderabad.  
The Secretary, All India Council for Technical Education, New Delhi – 110002.  
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 P.A. to Chairman, Andhra Pradesh State Council of Higher Education.  
Copy to the Secretary to Vice-Chancellor, JNTUK, Kakinada.  
Copy to the Director, Academics & Planning, JNTUK, Kakinada.



- LEGEND:**
1. MAIN GATE
  2. PLAYGROUND
  3. MACHINERY SHOP
  4. MECHANICAL
  5. BUS SHELTER
  6. CANTEEN
  7. MAIN BLOCK
  8. PARKING AREA
  9. GIRLS HOSTEL
  10. GENERATOR RM
  11. INSTRUMENTATION LAB
  12. BOYS HOSTEL
  13. ELECTRICAL MACHIN LAB
  14. STAFF QUARTERS
  15. MECHANICAL WORKSHOP
  16. GUEST HOUSE
  17. ELECTRICAL TRANSFORM

PLAN SHOWING THE AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY OF AVANTHI EDUCATIONAL SOCIETY OF R.S.No.93-1,85-1, MARAVAKUPALEM Mandal, NARSIPATNAM Division, VISAKHAPATNAM DIST.

TOTAL LAND EXTENT: 1,51,492 Ysq.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

08932 222382  
Fax : 08932 222453  
Cell : 9866664636

(Approved by AICTE, Permanently Affiliated to JNT University, Kakinada,  
Accredited by NBA & Recognized Under 2(f) and 12(b) by UGC, New Delhi)

Tamaram, Makavarapalem, Narsipatnam Revenue Division, Visakhapatnam Dist. - 531 113.

Administrative Office : 51-8-40/21/2, Rythu Bazaar Street, Beside Eenadu Office,  
Nakkavanipalem, Visakhapatnam - 530 013 (A.P.) Ph : 0891-2748231, 9652012340

e-mail : principal\_aiet@yahoo.com Website : www.avanathi.edu.in

**Dr. C.P.V.N.J. Mohan Rao**, M.Tech., Ph.D.  
PRINCIPAL

## Declaration by the Head of the Institution

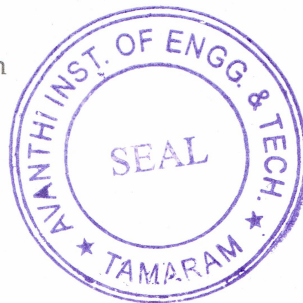
I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part there of has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Makavarapalem

Date: 17.1.2017



Signature of the Head of the  
institution with seal

Principal

Avanathi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District.