

## EVALUATIVE REPORT OF CHEMICAL ENGINEERING DEPARTMENT

1. Name of the department : **CHEMICAL ENGINEERING (CHE)**
2. Year of Establishment : **1997**
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)  
UG : **B.Tech. (CHEM)**

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

S. No.	Subject	Department
1	Engineering Mechanics	Civil Department
2	C Programming	CSE Department
3	Engg Drawing	Mechanical Department
4	Management Science	Master of Business Administration

5. Annual/semester/choice based credit system(programme wise)  
B.Tech (CHEM) – Semester based credit system-Electives in higher semesters

6. Participation of the department in the courses offered by other departments

S.No.	Programme	Courses offered by other departments
1	B.Tech.	Computer Science Engineering (CSE)
2		Electrical & Electronics Engineering (EEE)
3		Information Technology (IT)
4		Civil Engineering (Civil)
5		Electronics & Communication Engineering(ECE)
6		Mechanical Engineering (Mech)

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

Designation	Sanctioned	Filled
Professors	04	04
Associate Professors	04	04
Assistant Professors	07	07

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	Students guided for the last 4 years
1	Dr. Ch. Durga Prasada Rao	Ph.D – AU	Professor	Process control , Mass transfer	45Y	
2	Dr. B. K. Bhaskara	Ph.D - IIT Kharagpur	Professor	Petrochemical Engg	42Y	
3	Prof. P. V. Gopal	M. Tech – NIT	Professor & HoD	Fluid mechanics	36Y	
4	Dr. Ch. V. Subbarao	Ph.D – AU	Professor	Fluid mechanics	20Y	
5	Sri D. Krishna	M. Tech – IIT KGP (Ph.D)	Assoc. Professor	Process control	12Y	
6	Dr. N. Annapurna	Ph.D – AU	Assoc. Professor	Biochemical Engg	5 Y 6M	
7	Dr. B. Sarva Rao	Ph.D – JNTU	Assoc. Professor	Biochemical Engg	10Y	
8	Sri G. V. S. K. Reddy	M. Tech – NIT Trichy	Assoc. Professor	Fluid mechanics	11Y 4M	
9	Sri B. V. Ramanaiah	M. Tech – IITD	Sr. Asst. Professor	Polymers	8Y 9M	
10	Sri S V A R Sastry	M. Tech – IITD	Sr. Asst. Professor	Energy conversion	8Y 9M	
11	Sri G. Ravi Kishor	M. Tech – IITB	Asst. Professor	Environmental Engg	7Y 3M	
12	Sri J. Lakshmana Rao	M. Tech – IIT KGP	Asst. Professor	Heterogeneous catalysis	9Y 6M	
13	Sri G. Santhosh	M. Tech – AU (Ph.D)	Asst. Professor	Mineral process Engg	6Y 3M	
14	Mrs. D. V. Padma	M. Tech – AU (Ph.D)	Asst. Professor	Mass transfer	6Y 3M	
15	Sri G Venkata Srinu	M. Tech – IITB	Asst. Professor	Polymers	2Y 10M	

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 : B.Tech. - 1:15

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff (Technical)	03	03
Administrative staff	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No. of Faculty with D.Sc/ D.Litt	No. of Faculty with Ph.D	No. of Faculty with M.Phil	No. of Faculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No. of faculty with UG (B.Tech)
-	5	-	10	-

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

- a) National:

S.No	Name of the Faculty	Title of the Project	Funding Agency	Grants received (Rs.)	Duration
1.	Mrs. D V Padma Asst. Professor	Surfactant based Adsorption of dyes from industrial effluents.	UGC	3,40,000	1 year

- b) International: NIL

17. Departmental projects funded by DST-FIST; UGC,DBT, ICSSR ,etc. and total grants received

S.No	Name of the Faculty	Title of the Project	Funding Agency	Grants received (Rs.)	Duration
1	Modernization of Chemical	AICTE, NEWDELHI	Prof. P. V Gopal Singh	10,42,920	2012
2	Modernization of Fluid Mechanics	AICTE, NEWDELHI	Mr. Pala Ramesh	10,00,000	2010
3	Awareness of Aromatic &	AICTE, NEWDELHI	Dr. M R Panigrahi	1,00,000	2007
4	Students Symposium, CHEMVIZ – 07	AICTE, NEWDELHI	Prof. P. V Gopal Singh	1,00,000	2007
5	Environmental Testing Laboratory	District administration Vizianagaram	Prof. P. V Gopal Singh	5,00,000	2004

18. Research Centre/facility recognized by the University: **NIL**

## 19. Publications:(Last four years)

## a) Publication per faculty

S.No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSN numbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Scimago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
1	Dr. Ch. Durgaprasada Rao	-	-	-	03	-	-	-	-	-	-
2	Dr. B.K.Bhaskara	08	-	-	-	01	-	-	-	-	-
3	Prof. P. V. Gopal	09	-	-	-	-	-	-	-	-	-
4	Dr.Ch. V. Subbarao	30	-	-	-	02	02	-	-	03	-
5	Mr. D. Krishna	35	-	-	-	-	01	-	-	02	-
6	Dr. N. Annapurna	04	-	-	-	-	-	-	-	-	-
7	Dr. B. Sarva Rao	20	-	-	-	-	-	-	-	-	-
8	Mr. G.V.S.K.	06	-	-	-	01	-	-	-	-	-
9	Mr. BV Ramanaiyah	04	-	-	-	-	-	-	-	-	-
10	Mr.SVAR Sastry	90	-	01	-	01	-	-	-	02	-
11	Mr. G. Ravi Kishor	02	-	-	-	-	-	-	-	-	-
12	Mr. J. Lakshmana	03	-	-	-	-	-	-	-	-	-
13	Mr. G. Santhosh	07	-	-	-	01	-	-	-	-	-
14	Mrs. D. V. Padma	01	-	-	-	01	-	-	-	-	-
15	Sri G Venkata Srinu	01	-	-	-	-	-	-	-	-	-

## 20. Areas of consultancy and income generated :

- MIMS, Nellimarla - Design of sewage treatment plant – Rs 8000/-

## 21. Faculty as members in

- a) National committees : NIL  
 b) International Committees : NIL  
 c) Editorial Boards : NIL

**Dr. Ch. V. Subbarao, Professor** is reviewer of the following reputed journals.

S. No	Name of the journal
1	Canadian journal of Chemical Engineering
2	Journal of Applied fluid mechanics

3	International journal of engineering, science and technology
4	International journal of applied engineering research, Dindigul
5	International journal of engineering and technology
6	The Pharma Research Journal - Editor cum reviewer

**Mr. D. Krishna, Associate Professor** is the reviewer of the following reputed journal.

S. No	Name of the journal
1	Reviewer for Walailak journal of Science and Technology

**Mr. S. V. A. R Sastry, Sr. Asst. Professor** is the reviewer of the following reputed journals.

S. No	Name of the journal
1	JOURNAL OF DEVELOPMENT AND AGRICULTURAL ECONOMICS
2	African Journal of Agricultural Research
3	Journal of Petroleum and Gas Exploration Research
4	African Journal of Environmental Science & Technology
5	International Research Journal Of Biotechnology
6	International Journal of Computational Engineering Research
7	Global Journals Inc.(US)
8	Bioinfo Journals
9	International Journal of Advanced Computer Science and Applications(IJACSA), Science and Information Organization
10	Journal of Cleaner Production, Elsevier ( <b>Impact factor- 2.72</b> )
11	Energy Conversion & Management, Elsevier ( <b>Impact factor- 2.64</b> )
12	<b>Editor:</b> Advisor/Editorial Board Member of “International Journal of Renewable & Sustainable Energy”
13	<b>Editor:</b> Advisor/Editorial Board Member of “Journal of Ecology and Environmental Sciences”

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/ programme.

Academic year	Batch	Total Strength	No of students who have done in-house projects	%
2009 -10	2006 -10	55	49	89.0
2010 -11	2007 -11	70	70	100.0
2011 -12	2008 -12	61	61	100.0
2012 -13	2009 -13	63	55	100.0
2013 -14	2010 -14	67	67	100.0

- b) Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies:

Academic Year	Batch	Student Name	Industry Name
2009-10	2006-10	P. Lalith Kumar	M/S Nagarjuna Agrichem Limited (Nacl)
		A.Chandra Sekhar	Dr. Reddy's Laboratories Limited, SKLM
		Sadhana Meda	Ferro Alloys Corporation Limited, Garividi
		Sushmitha. J	Andhra Organics Pvt Limited
		Suryakanth J	Matrix Laboratories Ltd
		Sudarshan Jadav	Aurobindo Pharma Limited
2010 -11	2007 -11	G Varaha Lalitha P Santoshi Triveni V Kartheek S K Gowthamkumar	Rashtriya Ispat Nigam Ltd, VSP
		Chaitanya Angati Sweta Pilla Sasikanth Simhadri Swarna K T	
		Ravva Swathi Mutyala Hima Bindu K M Santosh Kumar V Narasimha Dora A	
		Manoj Kumar Akiri Chinnayya Kondru C Prasanth M Sri Kanth Seelam	Hindustan Petroleum Corporation Ltd, VSP
		Mangu Ram Kiran P Lalita Swathi R V Sowmya	Hindustan Petroleum Corporation Ltd, VSP
		Daka Usha Haritharani K	Andhra Cements Ltd, Vsp

2011-12	2008-12	B Venkateswarlu K Yamuna Priya K Guntuboina Swapna Teli Joel Livingston	Coromandel Paints Ltd, Pendurthi
		Gunupudi Kartheek Durvasula Sirisha	Saraca Labratories Ltd, Srikakulam
		Sitharam Meesala Mantri Divya Vahilla	Coromandel International Ltd, Vsp
		Savithridevi Vudi Sharath Kumar P	Hindustan Petroleum Corporation Ltd, Vsp
		Kapu Goutham Joshi Siddhartha Suvvada	
		Ummidi Raju Y Venkata Shyam K Bhargav Santosh P Raja Sekhar	Facor Ltd, Garividi.
		B Ashok Kumar Pattapu Yaswanth V Krishna Sundar Metakoti Vinodh	Coromandel International Ltd, Vsp
		P V V Satya Babji Korada Anil Kumar Y Venkataramana Thangi Alekhya	
		D S Pramod Kumar Rebecca Ann Vaddadi Choppa Haritha Pasupuleti Vindhya	
		Routhu Sai Keerthana G V Sivabhaskararaju B Kalyan Srinivas Meesala Gopi	Rashtirya Ispat Nigam Ltd, Visakhapatnam
		K Kavitha Gangu Koteswari	
		Bagadi Kusuma Ch Prakash Naidu Lopinti Dayasagar E Anurag Naik B	Facor, Garividi.

		J Jayanthi Ba N Kalyana Mohan Dadi Charan Cheela Bhargav	M/S The Chodavaram Co-Operative Sugars Ltd, Govada
		Balasa Satish Kumar A Ravi Kalyan K Geetha Lavanya Bindu Priya Reddy	Aurobindo Pharma Ltd, Skln
		Bommi Sandeep D Mehar Jagannath	Hindustan Petroelum Corporation Ltd, Vsp
		D V N Kchaitanya Datti Chantibabu Akshay D Pothurajula Nirmala	Hindustan Zinc Ltd., Vsp
		A V S L Sai Bharadwaj Pampana Suresh I P Kchakravarthy Ch Siva Prasad	Smartchem Technologies Ltd, Skln
		Kandala Ravi Teja Ch V Naga Sowjanya K Chandrasekhar Mudidana Raju M Sravan Kumar	
2012-13	2009-13	Attada Yerrayya Mohammad Hanif Gujjari Pydi Anvesh Pillala Ravivarma	Rashtirya Ispat Nigam Ltd, Visakhapatnam
		B Shyam Shankar S V S Kishore D Venkata Aditya Rayudu Sriharsh	
		M Srinivas Soumitri Rv Sita Ramaiah Chintagunti Amrutha Govada Anil	Hindustan Petroelum Corporation Ltd, Visakhapatnam
		H Nifan D Varalakshmi Karri Ramakrishna Tabassum	
N K Mani Priyanka Praneethreddy Karri G V P Varma Devulapalli Pankaj			

		Kasichainula Dilip Y Veera Janardhan W V N Sai Chaitanya Thumpala Anil Kumar	
		V S Paramahamsa Ch Purushotham Chalumuri Srinivas Katta Sirisha	
		J V Jayarama Krishna B Sanyasinaidu V Sravani Sameera Puli Naveenkumar	
		D U S L Deepthi Ch V Nagalaxmi	
		Nukala Ravi Teja Y Jagadish Kumar M K S Venkata Raghav P S Jagannadh Raju	Coromandel International Ltd, Vsp
		V V Lalitha Sridivya Pathrini Aswini Naidu Shaik Mastan Vali K Kandala Dileep	
		Yaddanapudi Varun Gangula Sai Prasanth I Ravi Kiran Kasi Pradgna	Smartchem Technologies Ltd, Sklm
		Penumajji Soniya B Santhosh Kumar B Gireesh Naidu Mukkala Divya	Facor, Garividi.
		Cheela Manjeera B Aravindkumar Undralla Sridevi M V Madhulatha	
		Karnapu Satyakala Bh Venkata Swetha Adidhala Aaron	GVMC, VSP

## 23. Awards/Recognitions received by faculty and students

## a) Faculty :

- Prof. Ch. V. Subbarao, Professor of Chemical Engineering was nominated

**Marquis WHO'S WHO IN THE WORLD [31<sup>st</sup> edition]**

- Dr. B. Sarva rao, Associate Professor of Chemical Engineering [Co-coordinator Student activities] received “**BEST STUDENT CHAPTER AWARD**” from Indian Institute of Chemical Engineers [IICHE] FOR THE YEAR 2013”
- Mr. S V A R Sastry, Sr. Asst. Professor of Chemical Engineering received **UNIVERSITY BEST TEACHER AWARD** [2008 -13] from JNTUK.
- Mr. S V A R Sastry, Sr. Asst. Professor of Chemical Engineering was nominated **Marquis WHO'S WHO IN THE WORLD** [ 31<sup>st</sup> edition]
- Mr. S V A R Sastry, Sr. Asst. Professor of Chemical Engineering was nominated in **2000 OUTSTANDING INTELLECTUALS of 21<sup>st</sup> century** from International Biographical Centre, Cambridge, UK
- Mr. S V A R Sastry, Sr. Asst. Professor of Chemical Engineering was nominated **100 BEST EDUCATORS of 2013**, from International Biographical Centre, Cambridge, UK
- Mr. S V A R Sastry, Sr. Asst. Professor of Chemical Engineering was nominated for **LEADING PROFESSIONAL AWARD IN CHEMICAL ENGINEERING** from International Biographical Centre, Cambridge, UK

## b) Students:

□ **UNIVERSITY MEDALS:**

Awarded Year	Name of the Student & batch	Achievements
2014	N Mani Kameswari Priyanka [ 2009 -13]	University Gold Medal
2013	K B Venkateswarlu [2008 -12 ]	University Gold Medal
2011	Dv Sarath Chandra [2006 – 10]	University Gold Medal
2007	Vijay Kumar Patnana [2002 – 06]	University Gold Medal

□ **MERIT OF ACADEMIC EXCELLENCE AWARDS:**

Awarded Year	Name of the Student	Achievements
--------------	---------------------	--------------

2012	Madugula Mrudula	Received 'Merit of Academic Excellence Awards' from the Union Minister of State for Human Resource Development, Dr. (Smt). D. Purandeswari Coastal Andhra Engineering Colleges Toppers Meet 7 <sup>th</sup> March, 2012. Visakhapatnam Organized by Symbiosys Technologies, Information Technology units in Visakhapatnam.
	M Srinivas Soumitri	
	B Venkateswarlu K	
	Prasad Babu D	

□ **PRIZES IN TECHNICAL FEST/ CONFERENCES etc,**

S. No.	Year	Name of the Student	Name of the Award	Awarding Organization
1	2014	Bh Ram Bharadwaj	First prize in Paper Presentation	INDHAN 2K14 organized by Dept of Petroleum Engg and Petrochem Engg, JNTUK
2	2014	K Ravikumar		
3	2014	G Anjana Madhulika		
4	2014	B Sai Sneha		
5	2013	M.K.S.V Raghav	First prize in Paper Presentation	Two Day National Level Student Technical symposium" CURIOS – 2K13 Organized by ANITS, VSP
6	2013	Bh. V. Swetha	Second prize in Paper Presentation	
7	2012	M. Srinivas Soumitri	First prize in Paper Presentation	CBIT, Hyderabad CHEMSPARK – 2012 February 24 <sup>th</sup> & 25 <sup>th</sup> 2012
8	2012	M. K. S. V. Raghav		
9	2012	O. S. Ravishankar		
10	2012	R. Sri Harsh	Second prize in Paper Presentation	
11	2012	N. Ravi Teja		
12	2012	K. Dilip		
13	2012	Ch. Purushottam	Spots events [ luminous incendio] – I prize	BIOFLARE' 12 February 17 <sup>th</sup> & 18 <sup>th</sup> 2012 ANITS,
14	2012	O. S. Ravishankar		

15	2012	M. Srinivas Soumitri	Spots events [ luminous incendio] – II prize	Sanghivalasa
16	2012	N. Ravi Teja		
17	2012	N. Alekhya	Spots events – II prize	
18	2012	P. Devi Priyanka		
19	2012	M. Srinivas Soumitri	Paper presentation – I Prize	
20	2012	Ch. Purushottam		
21	2011	Krishna Sundar C Prakash Naidu	Paper presentation – II Prize	STEPSTONE - 2011, 19 <sup>th</sup> , 20 <sup>th</sup> January GMRIT, Rajam
22	2011	K Geetha Lavanya R Keerthana		
23	2011	Savitri Devi Seetharam M	Quiz- II Prize	
24	2011	Ch V Naga Sowjanya D B Santosh Kumar	Paper presentation – II Prize	

## 24. List of eminent academicians and scientists/visitors to the department

□ **Guest Lectures:**

S.No	Year	Resource persons	Titles	Date
1	2013-14	Dr. K. Ramarao, Faculty, National University of Singapore.	Opportunities for Chemical Engineers”	24.03.14
2		Dr. Lakshmi Gaitonde AGM, Mylan laboratories	Process Chemistry & Process	15.02.14
3		Mr. G Haribabu AGM, Mylan laboratories	Role and responsibilities of Chemical	15.02.14
1	2012-13	Dr. B. K. Bhaskara Rao, Retd. Prof. IIT- Kharagpur Presently Prof in Chem Engg, MVGRCE, VZM	Growth Limitations – Myth & reality	FEB’ 2013
2		Mr. D. Rajeev [ Alumni], Research Associate, Invagen Pharmaceuticals, Usa	Higher Educational Opportunities	MARCH’ 2013

3		1.Dr.P.Krishnam raju Triad services, USA 2. P.A.B.Raju, Ex. Vice	One Day Workshop on Global Energy	March 31 <sup>st</sup> 2013
1	2011-12	Mr. Suresh Babu S Marketing Manager, Agile Informatics, Singapore. B. Tech (Alumni of MVGRCE), M. B. A. (Marketing & International Business)from Griffith University, Australia)	“Career Post Bachelors, communicatio n and Body language”	24.2.12
2		Mr. Chaitanya & Mr. Sai Krishna	“Career aspects of	12.12.11
3		Prof. S. V. Satyanarayana, Chairman BoS Chemical Engg. & Professor. Dent. of	“Pervaporatio n: A novel separation	06.08.11
4		Dr. P. Krishnam Raju, Senior <i>Chemical Engineer</i> , Managing Partner, Triad Services, USA.		09.08.2011
1	2010-11	Dr. Sridevi, Assistant Professor,	Basic Aspects of Chemical	18.06.2010
2		Mr. Dominique Savio, Manager – Operations, Krebs biotech Industries Ltd, Yelamanchili, Visakhapatnam	Trouble Shooting of Heat and Mass Transfer Problems in Biotech Industries	10.07.2010
3		Dr. P. Krishnam Raju, Managing Partner, Triad Services. US	Challenges in Chemical Engineering Industries.	14.03.2011.
1	2009-10	Dr. B. K. Bhaskararao, Rtd. Professor ( IIT Kharagpur) Presently working as Professor MVGRCOE, VZM	150 years Petroleum Industry	10.07.2009
2		Dr Paruchuri Gangadhar Rao, Director, North-East Institute of Science & Technology (CSIR), Jorhat, Assam	Fun and Joy of Science	10.09.2009

3	P.A.B. Raju, Executive Director, HPCL, Vizag	Role of Engineers in Chemical Industry	15.09.2009
4	Prof. G. D. Yadav, FNA Director (Vice- Chancellor) Institute of Chemical Technology, MUMBAI	Green Technologies & Environmental Protection	29.12.2009
5	Sri N. Muralidhar Reddy Senior General Manager, Matrix Labs, SKLM	Interaction on Chemical Engineer role in Pharmaceutica l Industry	06.02.2010
6	Dr. P. Krishnam Raju, Senior <i>Chemical Engineer</i> , Managing Partner, Triad Services, USA.	Student : Industry Participation & Career Opportunities	11.02.2010

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S.no.	Name of the Seminar/ Conference/Workshop	Date(s)/y ear	Source of funding	Amount spent (Rs.)
1	SCHEMCON 2013 [ 9 <sup>th</sup> Annual Session of Students	2013	IICSHE Regional	3.545L
2	Student symposium GREENTECH 2011	2011	APPCB (RO), VZM	2L
3	One day national workshop on “Combat Climate Change”	2009	APPCB (RO), VZM	1.7L
4	Awareness on Environmental Challenges	2008	APPCB (RO), VZM	0.1L
5	Awareness of Aromatic & Medicinal Plants	2007	AICTE, New Delhi	1L
6	Awareness of Aromatic & Medicinal Plants	2007	APGCCL, VSP	0.15L
7	Awareness of Aromatic & Medicinal Plants	2007	NABARD, VSP	0.1L
8	Students Symposium, CHEMVIZ - 07	2007	AICTE, New Delhi	1L

b) International Workshops/ Conferences Conducted: **NIL**

26. Student profile programme/course wise:

Year	Name of the Course/ program	Applications received	Selected(Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2009-13	B.Tech (CHEM)	*	63	44	19	87.3
2008-12		*	61	44	17	86.3
2007-11		*	70	51	19	85.7
2006-10		*	55	39	16	83

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

27. Diversity of Students

Year of Admission	Name of the Course	% students from the same State	% of students from other States	% of students from abroad
2009-10	B.Tech (CHEM)	100.0	-	-
2010-11		100.0	-	-
2011-12		98.0	2.0	-
2012-13		94.5	5.5	-
2013-14		96.2	3.8	-

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				
	2009-10	2010-11	2011-12	2012-13	2013-14
GATE	1	5	7	9	7
Civil Services	-	-	-	-	-
Defense Services	-	-	-	-	-
SLET	-	-	-	-	-
NET	-	-	-	-	-
GRE	2	1	3	-	-
Public Sectors	2	2	4	-	-

29. Student progression.

Student progression	Against % enrolled	
UG to PG	27.7	
PG to M.Phil.	-	
PG to Ph.D.	-	
Ph.D. to Post-Doctoral	-	
Employed	•Campus selection	11.6
	•Other than campus recruitment	27.7
Entrepreneurship/Self-employment	2.8	

30. Details of Infrastructural facilities

**a) Library: Plinth Area: 53.1sq.mts.**

No. of Titles	No. of Volumes	No. of Computers	No. of E-Journals	No. of Print Journals
250	2500 including book bank	02	54	08

**b) Internet facilities for Staff & Students:**

- All 5 Desktops in the department are connected with intranet
- 16 MBPS leased BSNL internet line

**c) Class rooms with ICT facility: 01****d) Laboratories: 08**

S. No.	Name of the laboratory	Area (Sq.Mts)	Total Investment(Rs.)
1	Chemical Reaction Engineering [ old]	123	270818
	Chemical Reaction Engineering [ purchased under MODROBS scheme funded by AICTE - 2012]		1064786
2	Mass Transfer Operations	171	879092
3	Instruments room	51	1034200
4	Mechanical Unit Operations	171	743785
5	Process Dynamics & Control	126	715967
6	Simulation Lab ANSYS CFD SOFTWARES [ ACADEMIC & RESEARCH VERSIONS]	140	2670482
7	Environmental testing lab [sponsored by District Administration , VZM]	178	466086
8	**Fluid Mechanics [ purchased under MODROBS scheme funded by AICTE - 2010]	260	500522

## 31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No. of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	97	112	115	118	135
Other agencies	-	-	-	-	-

## 32. Details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts

S.No	Year	Resource persons	Titles	Date
------	------	------------------	--------	------

1	2013-14	Dr. K. Ramarao, Faculty, National University of Singapore.	Opportunities for Chemical Engineers”	24.03.14
2		Dr. Lakshmi Gaitonde AGM, Mylan laboratories	Process Chemistry & Process	15.02.14
3		Mr. G Haribabu AGM, Mylan laboratories	Role and responsibilitie s of Chemical	15.02.14
1	2012-13	Dr. B. K. Bhaskara Rao, Retd. Prof. IIT- Kharagpur Presently Prof in Chem Engg, MVGRCE, VZM	Growth Limitations – Myth & reality	FEB’ 2013
2		Mr. D. Rajeev [ Alumni], Research Associate, Invagen Pharmaceuticals, Usa	Higher Educational Opportunities	MARCH’ 2013
3		1.Dr.P.Krishnam raju Triad services, USA 2. P.A.B.Raju, Ex. Vice	One Day Workshop on Global Energy	March 31 <sup>st</sup> 2013
1	2011-12	Mr. Suresh Babu S Marketing Manager, Agile Informatics, Singapore. B. Tech (Alumni of MVGRCE), M. B. A. (Marketing & International Business)from Griffith University, Australaia)	“Career Post Bachelors, communicatio n and Body language”	24.2.12
2		Mr. Chaitanya & Mr. Sai Krishna	“Career aspects of	12.12.11
3		Prof. S. V. Satyanarayana, Chairman BoS Chemical Engg. & Professor. Dent. of	“Pervaporatio n: A novel separation	06.08.11
4		Dr. P. Krishnam Raju, Senior <i>Chemical Engineer</i> , Managing Partner, Triad Services, USA.		09.08.2011
1	2010-11	Dr. Sridevi, Assistant Professor,	Basic Aspects of Chemical	18.06.2010
2		Mr. Dominique Savio, Manager – Operations, Krebs biotech Industries Ltd, Yelamanchili, Visakhapatnam	Trouble Shooting of Heat and Mass Transfer Problems in Biotech	10.07.2010

			Industries	
3		Dr. P. Krishnam Raju, Managing Partner, Triad Services. US	Challenges in Chemical Engineering Industries.	14.03.2011.
1	2009-10	Dr. B. K. Bhaskararao, Rtd. Professor ( IIT Kharagpur) Presently working as Professor MVGRCOE, VZM	150 years Petroleum Industry	10.07.2009
2		Dr Paruchuri Gangadhar Rao, Director, North-East Institute of Science & Technology (CSIR), Jorhat, Assam	Fun and Joy of Science	10.09.2009
3		P.A.B. Raju, Executive Director, HPCL, Vizag	Role of Engineers in Chemical Industry	15.09.2009
4		Prof. G. D. Yadav, FNA Director (Vice- Chancellor) Institute of Chemical Technology, MUMBAI	Green Technologies & Environmental Protection	29.12.2009
5		Sri N. Muralidhar Reddy Senior General Manager, Matrix Labs, SKLM	Interaction on Chemical Engineer role in Pharmaceutica l Industry	06.02.2010
6		Dr. P. Krishnam Raju, Senior <i>Chemical Engineer</i> , Managing Partner, Triad Services, USA.	Student : Industry Participation & Career Opportunities	11.02.2010

## 33. Teaching Methods Adopted to improve student learning

- PowerPoint presentations using LCD
- NPTEL video lectures
- Assigning seminar topics.

- Offering special coaching for GATE exam.
  - Special training to motivate students to present papers in seminars.
  - Conducting special training for Certifications
  - Advising to participate in classroom seminars, group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills.
  - Motivating to access latest online journals, reference materials and help them to understand the emerging trends in their field of study
  - Training to use audio visual aids like PowerPoint, charts, models etc for effective presentation
  - Providing opportunities to develop their creativity by organizing intercollegiate as well as national level cultural, literary, technical and sports competitions.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

**NSS activities**

FINANCIAL YEAR: 2013- 14				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Awareness Programme on Role of Youth in Village Development	17/04/13	17/04/13
2	NSS Unit	Awareness Programme on Adoption of Disabled children & Distributing required study material & Free lunch arrangements to Deaf & Dumb Children	17/06/13	17/06/13
3	NSS Unit	Donation of books to Poor Students	7/7/2013	7/7/2013
4	NSS Unit	Awareness Programme on Rural Education & Distribution of School Uniform to poor children	17/07/13	17/07/13
5	NSS Unit	Independence Day Celebrations	15/08/13	15/08/13
6	NSS Unit	Teachers Day Celebrations	5/9/2013	5/9/2013
7	NSS Unit	World Peace Pledge	21/09/13	21/09/13
8	NSS Unit	Awareness Programme on Adult Education	19/11/13	19/11/13

9	NSS Unit	Awareness Programme on Library & It's utilization	20/11/13	20/11/13
10	NSS Unit	Blood donation camp - 15th Birthday celebrations of Swami Vivekananda	10/1/2014	10/1/2014
11	NSS Unit	*NSS SPECIAL CAMP at Venkampeta & chittigunkalam	*27/1/2014	*1/2/2014
12	NSS Unit	Distribution of utensils & clothes - Chinaravada - Bhogapuram	21/3/14	21/3/14
13	NSS Unit	Blood donation camp - MVGR 17th Annual day celebrations -	28/3/14	28/3/14

FINANCIAL YEAR: 2012- 13				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Blood Donation Camp-I	02.05.12	02.05.12
2	NSS Unit	Awareness Program on Non-Conventional Energy Sources	23.05.12	23.05.12
3	NSS Unit	Awareness Program on Blood Donation	14.06.12	14.06.12
4	NSS Unit	Donation of Books to School Children	7.7.12	7.7.12
5	NSS Unit	Independence Day Celebrations	15-08-12	15-08-12
6	NSS Unit	Blood Donation Camp-II	25.8.12	25.8.12
7	NSS Unit	Teacher's day celebrations	5/9/2012	5/9/2012
8	NSS Unit	Engineers Day Celebrations Blood Donation Camp-III	15-09-12	15-09-12
9	NSS Unit	International Blood Donation Week	1.10.12	1.10.12
10	NSS Unit	Distributed 80 smokeless chulas for rural people with the help of NEDCAP at PEDADA village Denkada mandal	2.10.12	2.10.12

11	NSS Unit	Silent rally at Vizianagaram from Fort to Collector Office against “Women Social Issues”	02.01.13	02.01.13
12	NSS Unit	National Youth Day	12.01.13	12.01.13
13	NSS Unit	Trauma Care-Initial Counselling & Data collection, General Medical Check-up	4/2/2013	4/2/2013
		Self employment schemes for youth		
		Gynecology & Pediatrician Counselling		
		Cleanliness For A Healthy World	5/2/2013	5/2/2013
		Awareness Programmes against infected diseases (AIDS)		
		Literacy- Awareness, Women’s education	6/2/2013	6/2/2013
		Videos presentation about Government schemes for rural people		
		Prevention of School drop outs, Improvement in village level education	7/2/2013	7/2/2013
		Plantation programme		
		Environmental awareness programme		
Disaster Management & ComM Safety measures	8/2/2013	8/2/2013		
Awareness Programmes on Social & Ethical Values	9/2/2013	9/3/2013		
Legal Awareness-Right to information & consumerism				
14	NSS Unit	Republic day celebrations	26-01-13	26-01-13
15	NSS Unit	Blood Donation Camp - IV	2/3/2013	2/3/2013

FINANCIAL YEAR: 2011- 12				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2011	5/7/2011
2	NSS Unit	Awareness program on rural women and child health	12/7/2011	12/7/2011
3	NSS Unit	Independence Day Celebrations	15-08-11	15-08-11
4	NSS Unit	Blood donation camp-I	25-08-11	25-08-11

5	NSS Unit	Teacher's day celebrations	5/9/2011	5/9/2011
6	NSS Unit	Blood donation camp-II	15-09-11	15-09-11
7	NSS Unit	Engineers day celebrations	15-09-11	15-09-11
8	NSS Unit	World peace pledge	21-09-11	21-09-11
9	NSS Unit	Essay Writing competitions	1/10/2011	1/10/2011
10	NSS Unit	Library week celebrations	19-11-11	19-11-11
11	NSS Unit	AIDS awareness rally	1/12/2011	1/12/2011
12	NSS Unit	Republic day celebrations	26-01-12	26-01-12
13	NSS Unit	Pulse polio immunization	29-02-12	29-02-12
14	NSS Unit	Blood donation camp-III	3/3/2012	3/3/2012
15	NSS Unit	Literacy Awareness Rally	2/3/2012	2/3/2012
		Awareness program on Environment & Conservation	2/3/2012	2/3/2012
		Medical Camp	3/3/2012	3/3/2012
		Literacy Awareness Program	3/3/2012	3/3/2012
		Medical Camp (Eye check Up)	4/3/2012	4/3/2012
		Legal Awareness Camp	4/3/2012	4/3/2012
		Medical Camp	5/3/2012	5/3/2012
		Awareness program on Pollution control & Blood donation	5/3/2012	5/3/2012
		Veterinary Camp	6/3/2012	6/3/2012
		Aids Awareness Program	7/3/2012	7/3/2012
Plantation Program	8/3/2012	8/3/2012		

FINANCIAL YEAR: 2010- 11				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2010	5/7/2010
2	NSS Unit	Independence Day Celebrations	15-08-10	15-08-10
3	NSS Unit	Blood Donation camp-I	25-08-10	25-08-10
4	NSS Unit	Teacher's day celebrations	5/9/2010	5/9/2010

5	NSS Unit	Engineers day Celebrations	15-09-10	15-09-10
6	NSS Unit	Blood Donation Camp-II	15-09-10	15-09-10
7	NSS Unit	Essay Writing Competitions	2/10/2010	2/10/2010
8	NSS Unit	Orientation Classes	7/10/2010	15-10-10
9	NSS Unit	AIDS Awareness Rally	1/10/2010	1/10/2010
10	NSS Unit	National Youth Day Celebrations	12/1/2011	12/1/2011
11	NSS Unit	Inauguration of a Student Organization (FYFP)	12/1/2011	12/1/2011
12	NSS Unit	Republic day Celebrations	26-01-11	26-01-11
13	NSS Unit	International Student Leadership Day	3/2/2011	3/2/2011
14	NSS Unit	Blood Donation Camp -III	3/3/2011	3/3/2011
15	NSS Unit	International Women's Day Celebrations	8/3/2011	8/3/2011

35. SWOC analysis of the department and Future plans

a) **Strengths:**

- Accredited by NBA of AICTE, New Delhi & NAAC (A grade) of UGC.
- Infrastructure lab more than curriculum.
- Human resources: Faculty from reputed institutes.
- High retention period – average experience is more.
- Liberal management to support for supplementary process like Workshops, FDPs etc
- Testing facilities for water in collaboration with municipality , Vizianagaram
- Having significant doctorates (5 nos).
- Student faculty ratio is more.
- Student projects are industrial oriented projects.
- Research facilities like HPLC, UV – Spectrophotometer
- 3 – R & D proposals are already running.
- University rank & gate holders from institute.
- Proximity to traditional industries.
- Much laboratory manuals are prepared.
- Decision making through department committees.
- Giving provision to use the facilities like NPTEL, Dept. Library etc

b) **Weaknesses:**

- Compared with other branches student intake is relatively poor on merit basis (awareness on Chemical Engg. is to be created)
- Under utilization of Laboratory & Library facilities.
- Campus placements by Core Companies need to be improved.
- Post graduate studies to be started.
- Industrial consultancy is to be improved.

c) **Opportunities:**

- Many chemical industries with diversified fields are nearby institute.
- Most of the navaratna companies (PSUs) are core chemical companies.
- Lot of funding by various organizations in Chemical Engg. Research CSIR, DST, DBT.
- Students getting practical exposure from various industries as final projects.
- Opportunities to higher education in Chemical Engg is high.
- Availability of software packages for Chemical Engg calculations.
- Opportunity to serve the mankind like research on air & water.

d) **Constraints**

- Software opportunities may divert students from opting core engineering.
- In view of psychological fear, exposure to chemicals, many admissions are being diverting.
- Entrepreneurship in Chemical Engg. Industry needs high investment.
- Educational institutions salaries are low in comparison with industries salaries.
- Level of preparedness of student while coming to institute.

## EVALUATIVE REPORT OF COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

1. Name of the department : **COMPUTER SCIENCE & ENGINEERING (CSE)**
2. Year of Establishment : 1997
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)

UG : B.Tech. (CSE)

PG : M.Tech (CSE)

PG : M.Tech (CNIS)

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

S. No.	Subject	Department
1.	Environmental Studies	Chemical Department
2.	Management Science	Master of Business Administration

5. Annual/semester/choice based credit system(programme wise)  
B.Tech (CSE) – Semester based credit system-Electives in higher semesters  
M.Tech (CSE & CNIS) – Semester based credit system-Electives in higher semesters

6. Participation of the department in the courses offered by other departments

Sl.No.	Programme	Courses offered by other departments
1	UG	Civil Engineering (Civil)
2		Electrical & Electronics Engineering (EEE)
3		Chemical Engineering (Chem.)
4		Electronics & Communication Engineering (EEE)
5		Information Technology (IT)
6		Mechanical Engineering (Mech.)
1	PG	Computer Networks & Information Security (CNIS)
2		Structural Engineering (Structural.)
3		Machine Design (MD)
4		VLSI
1	MBA	Master of Business Administration (MBA)

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

Designation	Sanctioned	Filled
Professors	03	03
Associate Professors	06	06
Assistant Professors	23	23

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	Students guided for the last 4 years
1.	Prof. P.S.Sitharama Raju	M.Tech	Professor & HOD	CSE	16 ½ Yrs	0
2.	Dr.S.Srinivasa Rao	M.Tech, PhD	Professor	CSE	19 Yrs	0
3.	Dr. C.Kalyana Chakravarty	M.Tech, Ph.D	Professor	CSE	14 Yrs	1
4.	Mrs. B.Aruna Kumari	M.Tech, (Ph.D)	Assoc. Professor	CSE	13 ½ Yrs	0
5.	Mr. P.Ravi Kiran Varma	M.Tech, (PhD)	Assoc. Professor	CSE	13 Yrs	0
6.	Dr. P.Sateesh	M.Tech, PhD	Assoc. Professor	CSE	11 ½ Yrs	0
7.	Mrs. A.S.V. Jayasri	M.E, B.Tech	Assoc. Professor	CSE	13 Yrs	0
8.	Mr. C.Veerabhadra Rao	(Ph.d), M.Tech, B.Tech	Assoc. Professor	CSE	17 Yrs	0
9.	Dr. G.Suvarna Kumar	M.Tech,PhD	Assoc. Professor	CSE	12 Yrs	0
10.	Mr. B.S.Vamsi Krishna	(Ph.D),M.Tech B.Tech	Sr. Asst. Professor	CSE	8 Yrs	0
11.	Mr. P.Srinivasa Rao	(Ph.D), M.Tech,	Sr. Asst. Professor	CSE	8 ½ Yrs	0
12.	Mr. Pardeep Singh Jamwal	M.Tech	Sr. Asst. Professor	CSE	18 Yrs	0
13.	Mr. R.Ravi Kanth	M.Tech, B.Tech	Asst. Professor	CSE	7 ½ Yrs	0
14.	Mr. K.V. Subba Raju	M.Tech, B.Tech	Asst. Professor	CSE	7Yrs 18 Yrs (Technical)	0
15.	Mrs. K.Santosh Jhansi	M.Tech, B.Tech	Asst. Professor	CSE	6 Yrs	0

16.	Mr. B.Srinivas	(Ph.D), M.Tech	Asst. Professor	CSE	8 Yrs	0
17.	Mrs. G.Sandhya Devi	(Ph.D), M.Tech	Asst. Professor	CSE	4 Yrs	0
18.	Mr. S.Vidya Sagar Appaji	(Ph.D),M.Tech , B.Tech	Asst. Professor	CSE	9 Yrs	0
19.	Mr. M.Chandra Sekhar	M.Tech, B.Tech	Asst. Professor	CSE	8 ½ Yrs	0
20.	Mrs. P.Parimala	M.Tech, B.Tech	Asst. Professor	CSE	4 Yrs	0
21.	Mrs. Y.V.D.Pushpa Latha	M.E., B.Tech	Asst. Professor	CSE	3 ½ Yrs	0
22.	Mr. T.Chaitanya Kumar	M.Tech, B.Tech	Asst. Professor	CSE	7 Yrs	0
23.	Mrs. N.Sushma Rani	M.Tech, B.Tech	Asst. Professor	CSE	8 Yrs	0
24.	Mr. K.Prasada Raju	M.Tech, B.Tech	Asst. Professor	CSE	5 ½ Yrs	0
25.	Mr. R.Suneel Kumar	M.Tech	Asst. Professor	CSE	2 Yrs	0
26.	Mr. R. Anil Kumar	M.Tech	Asst. Professor	CSE	2 ½ Yrs	0
27.	Mr. D. Mallikarjun Reddy	M.Tech	Asst. Professor	CSE	2 ½ Yrs	0
28.	Mr. K. Atchut Vardhan	M.Tech	Asst. Professor	CSE	3 Months	0
29.	Ms. A.Navya	B.Tech	Teaching Asst.	CSE	1 ½ Yr	0
30.	Ms. D.Sheetal Sharma	M.Tech	Teaching Asst.	CSE	2 Months	0

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 : B.Tech. - 1:15

PG : M.Tech - 1:12

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff(Technical)	06	06
Administrative staff	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No. of Faculty with D.Sc/ D.Litt	No. of Faculty with Ph.D	No. of Faculty with M.Phil	No. of Faculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No. of Faculty with UG (B.Tech)
-	4	-	25	1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

a) National:

Sl. No	Title of the Project	Funding Agency	Name of the Coordinator	Grants received (Rs.)	Duration
1	MODROBS	AICTE, New Delhi	Dr. Sumit Gupta	Rs.10 Lacs	2 Years
2	SDP	AICTE, New Delhi	Dr. Sumit Gupta	Rs.5,30,899/-	2 Weeks

b) International: **NIL**

17. Departmental projects funded by DST-FIST;UGC,DBT,ICSSR, etc. and total grants received:

Sl. No	Title of the Project	Funding Agency	Name of the Coordinator	Grants received (Rs.)	Duration
1	DST	-	Dr. Ramesh (Investigator) Dr. Sumit Gupta (Co-investigator)	Rs.31,97,000/-	3 Years

18. Research Centre/facility recognized by the University: **YES**

19. Publications:(Last four years)

a) Publication per faculty

S. No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSN numbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Schmago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
1	Prof. P.Sitharama Raju	0	-	-	-	-	-	-	-	-	-
2	Dr. S.Srinivasa Rao	6	-	-	-	-	-	-	-	-	-
3	Dr. C.Kalyana	8	-	-	-	-	-	-	-	-	-

4	Mrs. B.Aruna Kumari	2	-	-	-	-	-	-	-	-	-
5	Mr. P.Ravi Kiran	4	-	-	-	-	-	-	-	-	-
6	Dr. P.Satheesh	16	-	-	-	-	-	-	-	-	-
7	Dr. G.Suvarna Kumar	10	-	-	-	-	-	-	-	-	-
8	Mr. P. Srinivasa Rao	3	-	-	-	-	-	-	-	-	-
9	Mr. K.V.Subba Raju	2	-	-	-	-	-	-	-	-	-
10	Mrs. K.Santosh Jhansi	1	-	-	-	-	-	-	-	-	-
11	Mr. B.Srinivas	16	-	-	-	-	-	-	-	-	-
12	Mr. S.Vidya Sagar	2	-	-	-	-	-	-	-	-	-
13	Mr. M.Chandra	1	-	-	-	-	-	-	-	-	-
14	Mrs. N.Sushma Rani	2	-	-	-	-	-	-	-	-	-
15	Mr. K.A.Prasad Raju	1	-	-	-	-	-	-	-	-	-
16	Mr. R.Anil Kumar	1	-	-	-	-	-	-	-	-	-

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

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/ programme.  
 **100% students have done in-house projects.**
- b) Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies: NIL

23. Awards/Recognitions received by faculty and students

- a) Faculty : NIL  
b) Students:

S. No.	Regd. No.	Name of the Student	Programme	Award/Recognition
1	11331A0512	B.Manjusha	Stepcone	1 <sup>st</sup> Prize on Cloud Computing for Paper Presentation at Stepcone Programme, GMRIT,Rajam
2	11331A0549	K.Sruthi	Stepcone	1 <sup>st</sup> Prize on Cloud Computing for Paper Presentation at Stepcone Programme, GMRIT,Rajam

3	11331A05A9	V.Harika	Curios	1 <sup>st</sup> Prize A Novel Water making for Paper Presentation at Curios Programme, ANITS, VSKP
4	11331A0534	G.Priyanka	Curios	1 <sup>st</sup> Prize Steganography Paper Presentation at Curios Programme, ANITS, VSKP
5	11331A0503	A.Harika	Curios	2 <sup>nd</sup> Prize Tele Immersion Paper Presentation at Curios Programme, ANITS, VSKP
6	11331A0505	B.Chandra Lekha	Curios	1 <sup>st</sup> Prize Steganography Paper Presentation at Curios Programme, ANITS, VSKP
7	11331A0536	G.Tejasri	Curios	2 <sup>nd</sup> Prize Tele Immersion Paper Presentation at Curios Programme, ANITS, VSKP
8	11331A0551	K.Harika	Curios	1 <sup>st</sup> Prize Steganography Paper Presentation at Curios Programme, ANITS, VSKP
9	11331A0598	SK.Sameena	Curios	1 <sup>st</sup> Prize A Novel Water Marking Paper Presentation at Curios Programme, ANITS, VSKP
10	11331A0502	A.Amrutha	Curios	2 <sup>nd</sup> Prize Tele Immersion Paper Presentation at Curios Programme, ANITS, VSKP
11	11331A0534	G. Priyanka	Grancius	2 <sup>nd</sup> Prize in Blue Brain Technology Turing Paper Presentation at Grancius Programme Koushik College of Engineering
12	11331A0551	K.Harika	Grancius	2 <sup>nd</sup> Prize in Blue Brain Technology Turing Paper Presentation at Grancius Programme Koushik College of Engineering

13	11331A0505	B. Chadra Lekha	Grancius	2 <sup>nd</sup> Prize in Blue Brain Technology Turing Paper Presentation at Granicus Programme Koushik College of Engn
14	10331A0502	A.Hari Priya	Ekathra	Certificate of Participation at Gayatri Vidya Parisath
15	10331A532	G.Neeraja	Ekathra	Certificate of Participation at Gayatri Vidya Parisath
16	11335A0508	K.Purnima	Ekathra	Certificate of Participation at Gayatri Vidya Parisath
17	10331A0518	C.Shravanthi	Ekathra	Certificate of Participation at Gayatri Vidya Parisath
18	10331A0534	G.Lakshmi Manasa	Ekathra	Certificate of Participation at Gayatri Vidya Parisath
19	10331A0548	K.Raviteja	Shaastra	Certificate of Participation , IIT Madras

## 24. List of eminent academicians and scientists/visitors to the department

S. No.	Year	Name of the Academician/Scientist	Designation	Organization	Purpose of Visit
1.	2009-10	Mr. Venkat Rao	Assoc. Professor	Andhra University	Guest Lecturer
2.		D.R.Prasada Raju	Scientist	Dept. of Science & Technology, New Delhi	Workshop
3.	2010-11	Mr. Sharath	Software Engineer	Swecha Organization, Hyd	Workshop
4.	2011-12	Mr. Venkata Raju	CEO	Bob Technologies, Banglore	Workshop
5.		Dr. A. Louise Perkins	Professor	University of Southern Mississippi, USA	Workshop
6.		Dr. Sumanth Yenduri	Assoc. Professor	University of Southern Mississippi, USA	Workshop
7.		P.S. Avadhani	Professor	Andhra University	Guest Lecturer
8.	2012-13	Dr.S.Srinivas Kumar	Professor	JNTUK – Kakinada	Guest Lecturer

9.		Sri Gopi Kumar Bulusu	CEO	Sankhya Technologies	Guest Lecturer
10.	2013-14	Mr. Y.Ramu & Mr. P.Vinod	Software Engineer s	TCS, Chennai	Workshop
11.		Mr. Anup Roy	IT Consultant	Cyber Q Consulting Pvt. Ltd	Guest Lecturer

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S. No.	Year	Workshop/Conference	Topic and Area	Funding
1	2013	Workshop	2days Workshop on “APPSFEST – 2013 (ANDROID) by IIT Madras at MVGR College of Engineering	Inter Departmental
2		Workshop	Indo US Collaboration for Engineering Education (IUCEE)” in collaboration with MVGR College of Engineering has organized 1day workshop “IUCEE initiatives awareness program	Inter Departmental
3		Workshop	2days Workshop on “APPSFEST – 2013” (CYBERMANIA) in Association with Saahastra-2013 by IIT Madras at MVGR College of Engineering	Inter Departmental
4	2012	Workshop	International Workshop on Intelligent Computing and Applications (IWICA-2012)	Inter Departmental
5		Workshop	Conducted “Techno Talkative” a workshop on Android & J2EE	Inter Departmental
6		workshop	conducted a work shop on android at MVGR College of Engineering	Inter Departmental
7		Workshop	Conducted for workshop Free Open Source Software (FOSS)	Inter Departmental
8		Workshop	3days Training Programme on “Lab view” workshop at ECE Dept. in MVGR College of Engineering	Inter Departmental

9		Workshop	2days Workshop on “APPSFEST – 2013 (ANDROID) by IIT Madras at MVGR College of Engineering	Inter Departmental
10		Workshop	Workshop On “HIGH PERFORMANCE COMPUTING ARCHITECTURES” Sponsored by IEEE Vizag Bay Subsection in MVGR College of Engineering	Inter Departmental
11		Guest Lecturer	Invite to Talk “Image Processing – Applications, Trends and Research areas” by Guest Lecturer Dr. S.Srinivas Kumar, Prof. of ECE & Director (R&D) JNTU-Kakinada	Inter Departmental
12		Guest Lecturer	Invite to Talk “World Class Research, Embedded System and Robotics” by Guest Lecturer Sri Gopi Kumar Bolusu, CEO of Sankhya Technologies, VSKP	Inter Departmental
13	2011	Workshop	Swecha Organization open Source Environment	Inter Departmental
14		Workshop	Microsoft Dream Spark Yatra	Inter Departmental
15		Workshop	Spartan Program	Inter Departmental
16	2009	Workshop	Conducted a workshop on Web Technologies	Inter Departmental
17		Workshop	Conducted a workshop on Ethical Hacking	Inter Departmental
18		Workshop	Conducted a workshop on Stress Management	Inter Departmental

b) International Workshops/ Conferences Conducted: **NIL**

26. Student profile programme/course wise:

Year	Name of the Course/ program	Applications received	Selected(Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2007-11	B.Tech (CSE)	142	140	95	45	86.01%

2008-12		132	126	69	57	80.17%
2009-13		132	132	72	60	91.12%
2010-13		144	144	84	60	Waiting for Results
2009-11	M.Tech (CSE)	18	18	10	8	66.67%
2010-12		18	18	10	8	61.11%
2011-13		18	9	5	4	66.66%
2012-14		18	17	8	9	In Project work
2009-11	M.Tech (CNIS)	-	-	-	-	-
2010-12		18	14	4	10	83.33%
2011-13		18	16	11	5	100%
2012-14		18	18	11	7	In Project work

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

27. Diversity of Students

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2010-11	B.Tech	100	0	0
2011-12		100	0	0
2012-13		100	0	0
2013-14		100	0	0
2010-11	M.Tech (CSE)	100	0	0
2011-12		100	0	0
2012-13		100	0	0
2013-14		100	0	0
2010-11	M.Tech (CNIS)	100	0	0
2011-12		100	0	0
2012-13		100	0	0
2013-14		100	0	0

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				
	2009-10	2010-11	2011-12	2012-13	2013-14
GATE	-	15	24	6	2
Civil services	-	-	-	-	-
Defense services	-	-	-	-	-
SLET	-	-	-	-	-
NET	-	-	-	-	-
GRE	-	-	-	-	-
Public Sectors	-	-	-	-	-

29. Student progression.

Student progression	Against % enrolled	
UG to PG	15	
PG to M.Phil.	-	
PG to Ph.D.	-	
Ph.D. to Post-Doctoral	-	
Employed	•Campus selection	35
	•Other than campus recruitment	18
Entrepreneurship/Self-employment	-	

30. Details of Infrastructural facilities

a) **Library:** Plinth Area: 70 sq.mts.

No. of Titles	No. of Volumes	No. of Computers	No. of E-Journals	No. of Print Journals
B.Tech	517	163	555	-
M.Tech (CSE)	40	163	4	-
M.Tech (CNIS)	58	163	4	-

b) **Internet facilities for Staff & Students:**

- 16Mbps dedicated leased line
- 10Mbps NME (National Mission for Education through Information & Communication Technology) with 20 Connections of 512Kbps Broad Band.

c) **Class rooms with ICT facility: 05**

d) **Laboratories: 05**

S. No.	Name of the laboratory	Area (Sq.Mts)	Total Investment(Rs.)
1	Programming Lab	169.29	Rs.25,15,519/-
2	DBMS Lab	133.86	Rs.12,96,108/-
3	ITWS Lab	112.86	Rs.17,36,509/-

4	Multimedia Lab	169.29	Rs.32,95,586/-
---	----------------	--------	----------------

31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No. of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	178	189	189	226	231
Other agencies	-	-	-	-	-

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

Year	Title of the Programme	Special lectures/workshops/seminar	Date(s)	No. Benefited
2009-10	Seminar	Ethical Hacking	24-7-2009	90
	Seminar	Stress Management	18-09-2009	72
2010-11	Seminar	Open Source Environment	19-02-2011	70
	Workshop	Microsoft Dream Spark Yatra	18.03.2011	75
2011-12	Seminar	Open Source Usage	-	140
	Seminar	Understand your team – Power of Team spirit	-	70
	Seminar	Cyber Security	-	60
	3day Workshop	Android & J2EE	14 <sup>th</sup> Mar'12 to 16 <sup>th</sup> Mar'12	140
2012-13	One day workshop	Android	18 <sup>th</sup> July'12	144
	Two day workshop	Appfest – 2013 (Cyber mania)	5 <sup>th</sup> Jan'13 & 8 <sup>th</sup> Jan'13	70
2013-14	3 day workshop	RAISE – 2014	30 <sup>th</sup> Jan'14 to 1 <sup>st</sup> Feb;14	150

33. Teaching Methods Adopted to improve student learning

- ICT tools that enhance student learning
- Anywhere access cloud based tutorial and learning material access through WINZEST.
- Remedial class mid way through the courses for weak students.
- Regular conduct of tutorials for 3-4 courses in each semester.
- Special training to motivate students to present papers in seminars.
- Conducting special training for MICROSOFT certifications like MOS, JAVA, Oracle, .Net though Microsoft Advantage programme.
- Providing opportunities to develop their creativity by organizing inter collegiate as well as national level cultural, literacy, technical and sports competition.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

**NSS activities**

Year	Name of the Activity	Sponsorer	Shedule	
			From	To
2008	Development of Employment Skills to rural youth	MVGRCE	14-11-08	21-11-08
2008	Effective Communication Skills for students	JNTUK&MVGRCE	17-11-08	17-11-08
2008	Awareness Programme on Library & Information systems in professional institutions	JNTUK&MVGRCE	22-11-08	22-11-08
2008	World AIDs Day	JNTUK&MVGRCE	1/12/2008	1/12/2008
	Essay Writing & Awareness Campaign			
2009	Elocution competition on Govt Projects & its utilization	JNTUK&MVGRCE	30-01-09	30-01-09
2009	National Youth Day	JNTUK&MVGRCE	12/1/2009	12/1/2009
2009	Consumer Awareness	JNTUK&MVGRCE	31-01-09	31-01-09
2009	Water Conservation Methods	JNTUK&MVGRCE	19-02-09	19-02-09
2009	Voluntary Blood Donation	JNTUK&MVGRCE	3/3/2009	3/3/2009
2009	World Women's Day	JNTUK&MVGRCE	9/3/2009	9/3/2009
2009	Independence Day Celebrations	JNTUK&MVGRCE	15-08-09	15-08-09

2009	Blood Donation camp-I	JNTUK&MVGRCE	26-08-09	26-08-09
2009	Teacher's day celebrations	JNTUK&MVGRCE	5/9/2009	5/9/2009
2009	Engineers day Celebrations	JNTUK&MVGRCE	15-09-09	15-09-09
2009	Republic day Celebrations	JNTUK&MVGRCE	26-09-09	26-09-09
2010	Plantation program	JNTUK&MVGRCE	5/7/2010	5/7/2010
2010	Independence Day Celebrations	JNTUK&MVGRCE	15-08-10	15-08-10
2010	Blood Donation camp-I	JNTUK&MVGRCE	25-08-10	25-08-10
2010	Teacher's day celebrations	JNTUK&MVGRCE	5/9/2010	5/9/2010
2010	Engineers day Celebrations	JNTUK&MVGRCE	15-09-10	15-09-10
2010	Blood Donation Camp-II	JNTUK&MVGRCE	15-09-10	15-09-10
2010	Essay Writing Competitions	JNTUK&MVGRCE	2/10/2010	2/10/2010
2010	Orientation Classes	JNTUK&MVGRCE	7/10/2010	15-10-10
2010	AIDS Awareness Rally	JNTUK&MVGRCE	1/10/2010	1/10/2010
2011	National Youth Day Celebrations	JNTUK&MVGRCE	12/1/2011	12/1/2011
2011	Inauguration of a Student Organization (FYFP)	JNTUK&MVGRCE	12/1/2011	12/1/2011
2011	Republic day Celebrations	JNTUK&MVGRCE	26-01-11	26-01-11
2011	International Student Leadership Day	JNTUK&MVGRCE	3/2/2011	3/2/2011
2011	Blood Donation Camp -III	JNTUK&MVGRCE	3/3/2011	3/3/2011
2011	International Women's Day Celebrations	JNTUK&MVGRCE	8/3/2011	8/3/2011
2011	Medical Camp-I	JNTUK&MVGRCE	18-02-11	18-02-11
2011	Legal Awareness Camp	JNTUK&MVGRCE	18-02-11	18-02-11
2011	Plantation & Chlorination of wells	JNTUK&MVGRCE	19-02-11	19-02-11
2011	Medical Camp-II	JNTUK&MVGRCE	19-02-11	19-02-11

2011	Trauma Care Awareness Program	JNTUK&MVGRCE	20-02-11	20-02-11
2011	Health Awareness Camp	JNTUK&MVGRCE	20-02-11	20-02-11
2011	Literacy Awareness Camp	JNTUK&MVGRCE	21-02-11	21-02-11
2011	HIV/AIDS Awareness Program	JNTUK&MVGRCE	21-02-11	21-02-11
2011	Competitions to Volunteers	JNTUK&MVGRCE	22-02-11	22-02-11
2011	Youth Awareness Program	JNTUK&MVGRCE	22-02-11	22-02-11
2011	Data collection	JNTUK&MVGRCE	23-02-11	23-02-11
2011	White Washing Program	JNTUK&MVGRCE	23-02-11	23-02-11
2011	Awareness on Disaster Management	JNTUK&MVGRCE	24-02-11	24-02-11
2011	Cultural Activities	JNTUK&MVGRCE	24-02-11	24-02-11
2011	Plantation program	JNTUK&MVGRCE	5/7/2011	5/7/2011
2011	Awareness program on rural women and child health	JNTUK&MVGRCE	12/7/2011	12/7/2011
2011	Independence Day Celebrations	JNTUK&MVGRCE	15-08-11	15-08-11
2011	Blood donation camp-I	JNTUK&MVGRCE	25-08-11	25-08-11
2011	Teacher's day celebrations	JNTUK&MVGRCE	5/9/2011	5/9/2011
2011	Awareness program on blood donation	JNTUK&MVGRCE	7/9/2011	7/9/2011
2011	Blood donation camp-II	JNTUK&MVGRCE	15-09-11	15-09-11
2011	Engineers day celebrations	JNTUK&MVGRCE	15-09-11	15-09-11
2011	World peace pledge	JNTUK&MVGRCE	21-09-11	21-09-11
2011	Essay Writing competitions	JNTUK&MVGRCE	1/10/2011	1/10/2011
2011	Library week celebrations	JNTUK&MVGRCE	19-11-11	19-11-11
2011	AIDS awareness rally	JNTUK&MVGRCE	1/12/2011	1/12/2011
2012	Republic day celebrations	JNTUK&MVGRCE	26-01-12	26-01-12
2012	Pulse polio immunization	JNTUK&MVGRCE	29-02-12	29-02-12

2012	Blood donation camp-III	JNTUK&MVGRCE	3/3/2012	3/3/2012
2012	Literacy Awareness Rally	JNTUK&MVGRCE	2/3/2012	2/3/2012
2012	Awareness program on Environment & Conservation	JNTUK&MVGRCE	2/3/2012	2/3/2012
2012	Medical Camp	JNTUK&MVGRCE	3/3/2012	3/3/2012
2012	Literacy Awareness Program	JNTUK&MVGRCE	3/3/2012	3/3/2012
2012	Medical Camp (Eye check Up)	JNTUK&MVGRCE	4/3/2012	4/3/2012
2012	Legal Awareness Camp	JNTUK&MVGRCE	4/3/2012	4/3/2012
2012	Medical Camp	JNTUK&MVGRCE	5/3/2012	5/3/2012
2012	Awareness program on Pollution control& Blood donation	JNTUK&MVGRCE	5/3/2012	5/3/2012
2012	Veterinary Camp	JNTUK&MVGRCE	6/3/2012	6/3/2012
2012	Aids Awareness Program	JNTUK&MVGRCE	7/3/2012	7/3/2012
2012	Plantation Program	JNTUK&MVGRCE	8/3/2012	8/3/2012
2012	Blood Donation Camp-I	JNTUK&MVGRCE	2.5.212	2.5.212
2012	Donation of Cloths &Fruits	JNTUK&MVGRCE	2.5.212	2.5.212
2012	Blood Donation Camp-II	JNTUK&MVGRCE	27.6. 12	27.6. 12
2012	Donation of Books to School Children	JNTUK&MVGRCE	7.7.12	7.7.12
2012	Independence Day Celebrations	JNTUK&MVGRCE	15-08-12	15-08-12
2012	Blood Donation Camp-III	JNTUK&MVGRCE	5/9/2012	5/9/2012
2012	Teacher's day celebrations	JNTUK&MVGRCE	5/9/2012	5/9/2012
2012	Engineers Day Celebrations	JNTUK&MVGRCE	15-09-12	15-09-12
2012	World peace pledge	JNTUK&MVGRCE	21-09-12	21-09-12
2012	Essay Writing Competitions	JNTUK&MVGRCE	2/10/2012	2/10/2012

2012	Distributed 80 smokeless chulas for rural people with the help of NEDCAP at PEDADA village Denkada mandal	JNTUK&MVGRCE	16.10.12	16.10.12
2013	Silent rally at Vizianagaram from Fort to Collector Office against “Women Social Issues”	JNTUK&MVGRCE	02.01.13	02.01.13
2013	National Youth Day	JNTUK&MVGRCE	12.1.13	12.1.13
2013	Blood Donation Camp was conducted in the campus in association with the Red Cross Society, Vizianagaram	JNTUK&MVGRCE	02.03.13	02.03.13
2013	Republic day celebrations	JNTUK&MVGRCE	26-01-13	26-01-13
2013	Trauma Care-Initial Counseling & Data collection, General Medical Check-up	JNTUK&MVGRCE	4/1/2013	4/1/2013
2013	Self employment schemes for youth	JNTUK&MVGRCE		
2013	Gynecology & Pediatrician Counseling for Ladies,	JNTUK&MVGRCE	5/1/2013	5/1/2013
	Cleanliness For A Healthy World			
2013	Awareness Programmes against infected diseases (AIDS)	JNTUK&MVGRCE		
2013	Literacy- Awareness, Women’s education	JNTUK&MVGRCE	6/1/2013	6/1/2013
2013	Videos presentation about Government schemes for rural people	JNTUK&MVGRCE		
2013	Prevention of School drop outs, Improvement in village level education	JNTUK&MVGRCE	7/1/2013	7/1/2013

2013	Plantation programme	JNTUK&MVGRCE		
2013	Environmental awareness programme	JNTUK&MVGRCE		
2013	Disaster Management & Common Safety measures	JNTUK&MVGRCE	8/1/2013	8/1/2013
2013	Awareness Programmes on Social & Ethical Values	JNTUK&MVGRCE		
2013	Legal Awareness- Right to information & consumerism	JNTUK&MVGRCE	9/1/2013	9/1/2013
2013	Blood Donation Camp	JNTUK&MVGRCE	2/3/2013	2/3/2013
2013	Art of Living by Guru Kondaveeti Jyothirmayee	JNTUK&MVGRCE	18-04-13	18-04-13
2013	Books & Fruits Distribution to Orphans	MVGRCE	17-04-13	17-04-13
2013	Dear & Dumb's School - Annadanam	MVGRCE	24-06-13	24-06-13
2014	Blood Donation Camp	MVGRCE	28.04.2014	28.04.2014

### 35. SWOC analysis of the department and Future plans

#### a) **Strengths:**

- Availability of qualified and experienced faculty
- Well equipped laboratories with latest systems and required software's.
- Systematic monitoring of teaching learning process.
- Active participation of alumni for career guidance and improvement.

#### b) **Weaknesses:**

- Consulting projects and Research Projects
- Communication skills of the ruler students
- Industrial interaction (internships)

#### c) **Opportunities:**

- Amicable management attitude in the form of special pay and incentives attracting qualified and experienced faculty.
- Soft skills and related training by T&P cell and association with alumni grab the opportunities to raise the employability of the students.
- Certification Courses

#### d) **Constraints:**

- Software Industries resource poor is increasing leading to reduced per capita opportunity
- Student intake quality is reducing

#### e) **Future Plans**

- To enter into MOUs with a couple of multinational companies.

- To take up R&D projects from funding agencies like DST, UGC and AICTE.

## EVALUATIVE REPORT OF CIVIL ENGINEERING DEPARTMENT

1. Name of the department : **CIVIL ENGINEERING (CIV)**
2. Year of Establishment : **2009**
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)

UG : B.Tech. (CIV)

PG : M.Tech (Structural Engineering)

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

S. No.	Subject	Department
1.	Environmental Studies	Chemical Department
2	C Programming	CSE Department
3	Management Science	Master of Business Administration

5. Annual/semester/choice based credit system(programme wise)  
B.Tech (CIV) – Semester based credit system-Electives in higher semesters  
M.Tech (Structural) – Semester based credit system-Electives in higher semesters

6. Participation of the department in the courses offered by other departments

Sl.No.	Programme	Courses offered by other departments
1	B.Tech.	Computer Science Engineering (CSE)
2		Electrical & Electronics Engineering (EEE)
3		Chemical Engineering (Chem.)
4		Mechanical Engineering (Mech.)
5	PG	Master of Business Administration (MBA)
6	PG	Master of Computer Applications (MCA)

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

Designation	Sanctioned	Filled
Professors	05	05
Associate Professors	01	01
Assistant Professors	13	13

## 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	Students guided for the last 4 years
1	Dr. K. Rajeswara Rao	M.Sc, ME, Ph.D	Professor	Geotechnical	34	
2	Dr. K. Suryanarayana	M.Sc, Ph.D	Professor	Geology	30	
3	Dr. SSSV. Gopala Raju	M.Tech, Ph.D	Professor	Transportation Engg	15	3 (Guiding)
4	Dr. P. Markandeya Raju	ME, Ph.D	Professor	Structural Engg	12	
5	Dr. S. Chandramouli	M.Tech, Ph.D	Professor	Water Resources	13	1 (Guiding)
6	Mr. B. Rameshraj	M.S.	Associate Professor	Transportation Engg	12	
7	Mr. S. Murali Sagar Varma	M.Tech	Assistant Professor	Structures	5	
8	Mr. A. Vara Prasad	M.Tech	Assistant Professor	RS & GIS	10	
9	Mr. Ch. V. Ravi Sankar	M.Tech	Assistant Professor	Environmental	3	
10	Mr. V. Vinay	M.Tech	Assistant Professor	Structures	2	
11	Mr. R.P. Singh	B.E (M.E)	Assistant Professor	Structures	2	
12	Mr. P. Sudheer	M.E	Assistant Professor	Construction Management	13	
13	Mrs. G. Himala Kumari	M.Tech	Assistant Professor	Structures	2	
14	Mr. B. Ramu	M.Tech	Assistant Professor	Geotechnical Engineering	1	
15	Ms. Ch. Annapurna	M.E	Assistant Professor	Structures	1	
16	Mr. B.V. Joga Rao	M.Tech	Assistant Professor	Transportation Engg	4	
17	Dr. N. Natarajan	M.Tech., Ph.D.	Assistant Professor	Water Resources	2	
18	Mr. V. Tarachand	B.E +M.E	Teaching Assistant	Geotechnical Engineering	1	

19	Ms. P.Lavanya Rekha	B.E +M.E	Teaching Assistant	Geotechnical Engineering	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)

UG : B.Tech. - 1:15  
 PG : M.Tech - 1:12

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff(Technical)	04	04
Administrative staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No. of Faculty with D.Sc/ D.Litt	No. of Faculty with Ph.D	No. of Faculty with M.Phil	No .of Faculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No. of faculty with UG (B.Tech)
-	5	-	9	4

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 four years)

- a) Publication per faculty

S.No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSNnumbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Scimago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
1	Dr.K. Rajeswara Rao	2	-	-	-						
2	Dr. K. Suryanarayana	-	-	-	-						
3	Dr. SSSV. Gopala Raju	15	-	-	-		10			4	2

4	Dr. P. Markandeya Raju	9	-	-	-	-	2					1
5	Dr. S. Chandramouli	19	-	-	-	-						
6	Mr. B. Rameshraj	4	-	-	-	-						
7	Mr. S. Murali Sagar	3	-	-	-	-					1	
8	Mr. A. Vara Prasad	2	-	-	-	-						
9	Mr. Ch. V. Ravi Sankar	4	-	-	-	-						
1	Mr. V. Vinay	0	-	-	-	-						
1	Mr. R.P. Singh	0	-	-	-	-						
1	Mr. P. Sudheer		-	-	-	-						
1	Mrs. G. Himala Kumari		-	-	-	-	-	-	-	-		
1	Mr. B. Ramu		-	-	-	-						
1	Ms. Ch. Annapurna		-	-	-	-						
1	Mr. B.V. Joga Rao		-	-	-	-						
1	Mr. V. Tarachand		-	-	-	-						
1	Ms. P.Lavanya Rekha		-	-	-	-						

20. Areas of consultancy and income generated :  
Structural designs, storm water drainage designs, water distribution system and third party quality control - **Income generated:** Rs.600000/-
21. Faculty as members in
- National committees : NIL
  - International Committees : NIL
  - Editorial Boards : 01
22. Student projects
- Percentage of students who have done in-house projects including inter departmental/ programme.  
 **100%students have done in-house projects.**
  - Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies: NIL
23. Awards/Recognitions received by faculty and students
- Faculty :  
Dr K. Rajeswara Rao has been nominated as BoS member of Civil Engineering department of JNT University-Kakinada, Kakinada
  - Students: NIL
24. List of eminent academicians and scientists/visitors to the department

S. No	Name of the Guest faculty	Affiliation	Purpose of Visit	Visit dates	Year
1	Dr NV Umamahesh	Professor, NIT Warangal	KEYNOTE LECTURE	21st February	2014
2	Dr RK Trivedi	Professor, University of Pune	KEYNOTE LECTURE	21st February	2014
3	Sri AVSS Anandh	Scientist, Central Ground Water Board, Visakhapatnam	KEYNOTE LECTURE	21st February	2014
4	Sri B Krishna	Scientist, National Institute of Hydrology, Kakinada	KEYNOTE LECTURE	21st February	2014
5	Dr.P.S.Rao,	Former DEAN, IITM.	KEYNOTE LECTURE	13th July	2013
6	Dr Amirtham Rajgopal	Assistant Professor, IIT Hyderabad	GUEST LECTURE	13th July	2013
7	Dr Allen Srinivas	Associate Professor, University of Washington	GUEST LECTURE	13th July	2013
8	Dr.S.Vijay Kumar,	Vijay Nirmaan Company Ltd., Visakhapatnam	GUEST LECTURE	December 31st	2012
9	Sri. Siddardh Sankar Choudary	Regional Manager, ACC Ltd.	GUEST LECTURE	26th November	2012
10	Dr.GVRPrasada Raju,	Registrar, JNTUK, Kakinada.	GUEST LECTURE	22nd September	2012
11	Er V Padma .Rao,	SE, Irrigation Department, Vizianagaram	GUEST LECTURE	15th September	2012
12	Dr. Srinivas S Pulugurtha,	UNC Charlette, USA	GUEST LECTURE	07th July	2012
13	Prof. K Anantha Narayanan,	Associate Profesor, IIT MADRAS	KEYNOTE LECTURE	7th May	2012
14	Dr. G. Swaminathan,	Professor & Registrar, NIT Tiruchirappali	KEYNOTE LECTURE	7th May	2012
15	Dr. KVR Ravi Shankar,	Assistant Professor, NIT Warangal	GUEST LECTURE	8th May	2012

16	Dr. VazeerMohamod,	Professor, Andhra University	GUEST LECTURE	8th May	2012
17	Prof P.VeeraBhadraRao	Professor, GVPCOE, VSP	GUEST LECTURE	9th May	2012
18	Sri. V.VenkataRama na,	GMRIT, Rajam	GUEST LECTURE	9th May	2012
19	Sri T.Sanjay Kumar Sahu,	Sr. Engineer, ToshniTek	GUEST LECTURE	11th May	2012
20	Sri Y. Ramesh,	Executive Director, Benchmark, VSP	GUEST LECTURE	10th May	2012
21	Dr.B.L.Narasayya,	Former Deputy Director General, GSI	GUEST LECTURE	22nd March	2012
22	Sri. GovindaRao	AEE Dept. of Rural Water supply, Vizianagaram	GUEST LECTURE	22nd March	2012
23	Dr.A.Gangagni Rao,	Senior Principal Scientist, IICT, Hyderabad.	KEYNOTE LECTURE	30th September	2011
24	Dr.Ch.DurgaPrasadaRao,	Ret. Professor of Chemical Engineering, IIT Madras	GUEST LECTURE	30th September	2011
25	Pof. B.K.BhaskarRao,	Ret. Professor of Chemical Engineering, IIT Kharagpur.	GUEST LECTURE	30th September	2011
26	Sri. R.LakshmiNarayana,	Environmental Engineer, APPCB	GUEST LECTURE	30th September	2011
27	Dr.S.M.ShivaNagendra,	Asst. Professor, IIT Chennai	GUEST LECTURE	19th January	2011
28	Sri VenkatNaresh,	Sr. Manager (Application Engg.) Clair Engineers Private Limited, Hyd.	GUEST LECTURE	19th January	2011
29	Dr. S.K. Barai	Professor, IIT Kharagpur	GUEST LECTURE	19th November	2010

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S.No	Year	Name of the Seminar/ Conference/Workshop	Date(s)	Source of funding	Amount spent (Rs.)
1	2011	GREEN TECH 11	19.01.2011- 20.01.2011	State Pollution Control Board	100000
2	2011	Environs' 11 ( National level student symposium) & Clean Air technologies for sustainable development	30.09.2011	State Pollution Control Board	100000
3	2012	Advanced methods of Surveying using Total Station and GPS	07.05.2012 – 12.05.2012	AICTE (FDP)	165000
4	2012	Masons training program on Good construction practices	24.03.2012 to 26.03.2012	ACC	
5	2014	Sustainable Water Resources Management	21.02.2014- 22.02.2014	AICTE (SG)	200000

b) International Workshops/ Conferences Conducted: **NIL**

26. Student profile programme/course wise:

Year	Name of the Course/ program	Application s received	Selected(Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2010-14	B.Tech (CIV)	*	73	51	22	Awaiting for Results
2009-13		*	66	48	18	84.13
2012-14	M.Tech (Structural)	*	7	6	1	In Progress

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

27. Diversity of Students

Year of Admission	Name of the Course	% students from the same State	% of students from other States	% of students from abroad
2009-10	B.Tech (CIV)	100	0	0
2010-11		100	0	0
2011-12		100	0	0
2012-13		100	0	0
2013-14		100	0	0
2012-13	M.Tech (Structural)	100	0	0
2013-14		100	0	0

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				
	2009-10	2010-11	2011-12	2012-13	2013-14
GATE	-	-	-	15	12
Civil services	-	-	-	-	-
Defense services	-	-	-	-	-
SLET	-	-	-	-	-
NET	-	-	-	-	-
GRE	-	-	-	3	2
AEE, Rural Water Supply	-	-	-	-	1

29. Student progression.

Student progression		Against % enrolled
UG to PG		22.72
PG to M.Phil.		-
PG to Ph.D.		-
Ph.D. to Post-Doctoral		-
Employed	•Campus selection	15.15% (2009-13) 17.47 % (2010-14)
	•Other than campus recruitment	-
Entrepreneurship/Self-employment		-

30. Details of Infrastructural facilities

**a) Library: Plinth Area: 52.1sq.mts.**

No. of Titles	No. of Volumes	No. of Computers	No. of E-Journals	No. of Print Journals
233	200 + 1638	0	4	7

**b) Internet facilities for Staff & Students:**

- 20Mbps NME (National Mission for Education through Information and Communication Technology)
- 16 MBPS leased BSNL internet line
- 02 connections of 512K bps broadband.

**c) Class rooms with ICT facility: 02**

**d) Laboratories: 05**

S. No.	Name of the laboratory	Area (Sq.Mts)	Total Investment (Rs.)
1	Surveying Laboratory	80	1,244,920
2	Geotechnical Engineering	112	8,928,937

3	Concrete Technology and Highway	112	2136625
4	Engineering Geology	65	50150
5	CAD laboratory	112	2074620

31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No. of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	14	40	80	140	191
Other agencies	-	-	-	-	-

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

Year	Title of the Programme	Special lectures/workshops/seminar	Date(s)	No. Benefited
1	Application of CFD in Fluid Flow Analysis	seminar	18.11.2010	150
2	Computational Fluid Dynamics	seminar	19.10.2010-20.10.2010	150
3	World water Day	Special lectures	22.03.2012	133
4	Soil Stabilization	GUEST LECTURE	22.08.2012	2012
5	Engineers day	Special lectures	15.09.2012	120
6	Good Construction Practices	GUEST LECTURE	26.11.2012	2012
7	Pre-Engineered Structures	GUEST LECTURE	31.12.2012	2012
8	UltraH Percon	workshops	13.07.2013	132

33. Teaching Methods Adopted to improve student learning

- Assigning seminar topics.
- Offering special coaching for GATE exam.
- Special training to motivate students to present papers in seminars.
- Advising to participate in class room seminars, group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills.
- Motivating to access latest online journals, reference materials and help them to understand the emerging trends in their field of study
- Training to use audio visual aids like power point, charts, models etc., for effective presentation
- Providing opportunities to develop their creativity by organizing inter collegiate as well as national level cultural, literary, technical and sports competitions.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

**NSS activities**

FINANCIAL YEAR: 2013- 14				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Awareness Programme on Role of Youth in Village Development	17/04/13	17/04/13
2	NSS Unit	Awareness Programme on Adoption of Disabled children & Distributing required study material & Free lunch arrangements to Deaf & Dumb Children	17/06/13	17/06/13
3	NSS Unit	Donation of books to Poor Students	7/7/2013	7/7/2013
4	NSS Unit	Awareness Programme on Rural Education & Distribution of School Uniform to poor children	17/07/13	17/07/13
5	NSS Unit	Independence Day Celebrations	15/08/13	15/08/13
6	NSS Unit	Teachers Day Celebrations	5/9/2013	5/9/2013
7	NSS Unit	World Peace Pledge	21/09/13	21/09/13
8	NSS Unit	Awareness Programme on Adult Education	19/11/13	19/11/13
9	NSS Unit	Awareness Programme on Library & It's utilization	20/11/13	20/11/13
10	NSS Unit	Blood donation camp - 15th Birthday celebrations of Swami Vivekananda	10/1/2014	10/1/2014
11	NSS Unit	*NSS SPECIAL CAMP at Venkampeta & chittigunkalam	*27/1/2014	*1/2/2014
12	NSS Unit	Distribution of utensils & clothes - Chinaravada - Bhogapuram	21/3/14	21/3/14
13	NSS Unit	Blood donation camp - MVGR 17th Annual day celebrations -	28/3/14	28/3/14

FINANCIAL YEAR: 2012- 13
--------------------------

S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Blood Donation Camp-I	02.05.12	02.05.12
2	NSS Unit	Awareness Program on Non-Conventional Energy Sources	23.05.12	23.05.12
3	NSS Unit	Awareness Program on Blood Donation	14.06.12	14.06.12
4	NSS Unit	Donation of Books to School Children	7.7.12	7.7.12
5	NSS Unit	Independence Day Celebrations	15-08-12	15-08-12
6	NSS Unit	Blood Donation Camp-II	25.8.12	25.8.12
7	NSS Unit	Teacher's day celebrations	5/9/2012	5/9/2012
8	NSS Unit	Engineers Day Celebrations Blood Donation Camp-III	15-09-12	15-09-12
9	NSS Unit	International Blood Donation Week	1.10.12	1.10.12
10	NSS Unit	Distributed 80 smokeless chulas for rural people with the help of NEDCAP at PEDADA village Denkada mandal	2.10.12	2.10.12
11	NSS Unit	Silent rally at Vizianagaram from Fort to Collector Office against "Women Social Issues"	02.01.13	02.01.13
12	NSS Unit	National Youth Day	12.01.13	12.01.13
13	NSS Unit	Trauma Care-Initial Counselling & Data collection, General Medical Check-up	4/2/2013	4/2/2013
		Self employment schemes for youth		
		Gynecology & Pediatrician Counselling	5/2/2013	5/2/2013
		Cleanliness For A Healthy World		
		Awareness Programmes against infected diseases (AIDS)		
Literacy- Awareness, Women's education	6/2/2013	6/2/2013		

		Videos presentation about Government schemes for rural people		
		Prevention of School drop outs, Improvement in village level education	7/2/2013	7/2/2013
		Plantation programme		
		Environmental awareness programme	8/2/2013	8/2/2013
		Disaster Management & ComM Safety measures		
		Awareness Programmes on Social & Ethical Values	9/2/2013	9/3/2013
		Legal Awareness-Right to information & consumerism		
14	NSS Unit	Republic day celebrations	26-01-13	26-01-13
15	NSS Unit	Blood Donation Camp - IV	2/3/2013	2/3/2013

FINANCIAL YEAR: 2011- 12				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2011	5/7/2011
2	NSS Unit	Awareness program on rural women and child health	12/7/2011	12/7/2011
3	NSS Unit	Independence Day Celebrations	15-08-11	15-08-11
4	NSS Unit	Blood donation camp-I	25-08-11	25-08-11
5	NSS Unit	Teacher's day celebrations	5/9/2011	5/9/2011
6	NSS Unit	Blood donation camp-II	15-09-11	15-09-11
7	NSS Unit	Engineers day celebrations	15-09-11	15-09-11
8	NSS Unit	World peace pledge	21-09-11	21-09-11
9	NSS Unit	Essay Writing competitions	1/10/2011	1/10/2011
10	NSS Unit	Library week celebrations	19-11-11	19-11-11
11	NSS Unit	AIDS awareness rally	1/12/2011	1/12/2011
12	NSS Unit	Republic day celebrations	26-01-12	26-01-12
13	NSS Unit	Pulse polio immunization	29-02-12	29-02-12
14	NSS Unit	Blood donation camp-III	3/3/2012	3/3/2012

15	NSS Unit	Literacy Awareness Rally	2/3/2012	2/3/2012
		Awareness program on Environment & Conservation	2/3/2012	2/3/2012
		Medical Camp	3/3/2012	3/3/2012
		Literacy Awareness Program	3/3/2012	3/3/2012
		Medical Camp (Eye check Up)	4/3/2012	4/3/2012
		Legal Awareness Camp	4/3/2012	4/3/2012
		Medical Camp	5/3/2012	5/3/2012
		Awareness program on Pollution control & Blood donation	5/3/2012	5/3/2012
		Veterinary Camp	6/3/2012	6/3/2012
		Aids Awareness Program	7/3/2012	7/3/2012
		Plantation Program	8/3/2012	8/3/2012

FINANCIAL YEAR: 2010- 11				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2010	5/7/2010
2	NSS Unit	Independence Day Celebrations	15-08-10	15-08-10
3	NSS Unit	Blood Donation camp-I	25-08-10	25-08-10
4	NSS Unit	Teacher's day celebrations	5/9/2010	5/9/2010
5	NSS Unit	Engineers day Celebrations	15-09-10	15-09-10
6	NSS Unit	Blood Donation Camp-II	15-09-10	15-09-10
7	NSS Unit	Essay Writing Competitions	2/10/2010	2/10/2010
8	NSS Unit	Orientation Classes	7/10/2010	15-10-10
9	NSS Unit	AIDS Awareness Rally	1/10/2010	1/10/2010
10	NSS Unit	National Youth Day Celebrations	12/1/2011	12/1/2011
11	NSS Unit	Inauguration of a Student Organization (FYFP)	12/1/2011	12/1/2011
12	NSS Unit	Republic day Celebrations	26-01-11	26-01-11
13	NSS Unit	International Student Leadership Day	3/2/2011	3/2/2011

14	NSS Unit	Blood Donation Camp -III	3/3/2011	3/3/2011
15	NSS Unit	International Women's Day Celebrations	8/3/2011	8/3/2011

35. SWOC analysis of the department and Future plans

a) **Strengths:**

- Availability of qualified and experienced faculty in all specializations of Civil Engineering.
- Senior faculty members have years of industry experience in addition to teaching experience.
- Laboratories have equipment commensurate with industry standards.
- Research and consulting assignments in the department provide hands-on experience to faculty as well as students.
- Major civil engineering projects in and around the college provide field' learning experience.
- Systematic monitoring of teaching-learning process and regular updates to the same.
- Active participation of academic, industry and alumni for career guidance and improvement.

b) **Weaknesses:**

- Except for a handful of students, many students are unaware of prospects of civil engineering.
- Large numbers of students have very poor written/oral communication skills in English.
- Inability of students to stay back late and take help from faculty.

c) **Opportunities:**

- Amicable management with nonprofit motive assures departmental growth by constantly adding new teaching-learning resources to the department.
- Communication and soft skills related training by in-house English faculty.
- Internship and industrial visit opportunities are available to improve the students employability

d) **Constraints**

- No control on quality of intake of students.
- No flexibility in choosing student compatible 'tailor made' syllabus.

e) **Future Plans**

- Increase internships and industrial visits and focus on field learning rather than classroom learning.
- Apply and seek more research projects.
- Conduct 'finishing school' type add-on courses and increase the employability of students.

**EVALUATIVE REPORT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING  
DEPARTMENT**

1. Name of the department : **ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)**
2. Year of Establishment : **1997**
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)  
 UG : B.Tech. (ECE)  
 PG : M.Tech( VLSI)
4. Names of Interdisciplinary courses and the departments/units involved:

S. No.	Subject	Department
1.	Environmental Studies	Chemical Department
2	C Programming	CSE Department
3	Engg Drawing	Mechanical Department
4	Management Science & MEFA	Master of Business Administration

5. Annual/semester/choice based credit system(programme wise)  
 B.Tech (ECE) – Semester based credit system-Electives in higher semesters  
 M.Tech (VLSI) – Semester based credit system- Electives in higher semesters

6. Participation of the department in the courses offered by other departments

Sl.No.	Programme	Courses offered by other departments
1	B.Tech.	Computer Science Engineering (CSE)
2		Electrical & Electronics Engineering (EEE)
3		Information Technology (IT)

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

Designation	Sanctioned	Filled
Professors	04	04
Associate Professors	05	05
Assistant Professors	22	22

## 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	Students guided for the last 4 years
1	Dr.P.S.Naidu	Ph.D	Professor	Signal Processing	41	
2	Dr.M.Sunil Prakash	Ph.D	Professor	Antennas	14	
3	Dr.R. Ramana Reddy	Ph.D	Professor	Antennas	12	
4	Dr.Sk.Mastan Vali	Ph.D	Professor	Antennas	13	
5	P.Ujjvala Kanthi Prabha	M.Tech	Associate Professor	Instrumentation Control systems	13	
6	D.Ramadevi	M.Tech	Associate Professor	Instrumentation Control systems	12	
7	G.Anjaneyulu	M.E	Associate Professor	Antenna Arrays	16	
8	Dr.M.Satyanarayana	Ph.D	Associate Professor	Antennas	10	
9	P.Surya Prasad	M.Tech	Associate Professor	Instrumentation Control systems	13	
10	V.Lavanya	M.Tech	Assistant Professor	Radar & Microwave	11	
11	V.N.Lakshmana Kumar	M.Tech	Assistant Professor	Systems and Signal Processing	9	
12	D.Hari Hara Santosh	M.Tech	Assistant Professor	Systems and Signal Processing	9	
13	M. L P Rani	M.Tech	Assistant Professor	Radar & Microwave	10	
14	G. Vimala Kumari	M.Tech	Assistant Professor	Digital Electronics and Communication	7	
15	K. Saritha Raj	M.Tech	Assistant Professor	Digital systems and Computer	10	
16	N. Shanmukha Rao	M.Tech	Assistant Professor	Radar & Microwave	8	
17	U.N.Subadhra Devi	M.Tech	Assistant Professor	Digital Electronics and	6	
18	T.A.N.S.N.Varma	M.Tech	Assistant Professor	(Radar & Microwave	6	
19	K.Rakesh	M.E	Assistant Professor	Electronic Instrumentation	6	
20	M.Vinodh Kumar	M.Tech	Assistant Professor	Communication Engineering	4	

21	B.Srinivas	M.Tech	Assistant Professor	Automotive Electronics	4	
22	B Lavanya	M.E	Assistant Professor	Telecommunications	4	
23	D.Rajaramesh	M.Tech	Assistant Professor	VLSI Design	4	
24	K.S.N.Raju	M.Tech	Assistant Professor	Digital Electronics and	3	
25	U.V.Sitarama Varma	M.S	Assistant Professor	Electrical Engineering	2	
26	P.Srikanth	M.Tech	Assistant Professor	VLSI	1	
27	H.Sudha	M.E	Assistant Professor	Applied Electronics	1	
28	P.Santosh Kumar	M.Tech	Assistant Professor	Signal Processing	1	
29	A.Ashok Kumar	M.Tech	Assistant Professor	Embedded Systems	1	
30	M.Subhadra Devi	B.Tech	Teaching	ECE		
31	G. Uma Shankar	B.Tech	Teaching	ECE		

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 : B.Tech. - 1:15

PG : M.Tech. - 1:12

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff(Technical)	08	08
Administrative staff	03	03

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No.of Faculty with D.Sc/ D.Litt	No.of Faculty with Ph.D	No.of Faculty with M.Phil	No.of Faculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No.of faculty with UG (B.Tech)
-	5	-	24	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:  
**Department of ECE is recognized as Research Center by JNTU-K, Kakinada**

19. Publications:(Last four years)

a) Publication per faculty

S.No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSNnumbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Scimago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
1	Dr.M.SunilPrakash	4	-	-	-	-	-	-	-	-	-
2	Dr.R.Ramana	9	-	-	-	-	-	-	-	-	-
3	Dr.Shaik Mastan	3	-	-	-	-	-	-	-	-	-
4	P.Ujjvala Kanthi	2	-	-	-	-	-	-	-	-	-
5	D.Ramadevi	2	-	-	-	-	-	-	-	-	-
6	G.Anjaneyulu	1	-	-	-	-	-	-	-	-	-
7	Dr.M.Satyanarayana	9	-	-	-	-	-	-	-	-	-
8	P.Surya Prasad	3	-	-	-	-	-	-	-	-	-
9	V.N.Lakshmana	4	-	-	-	-	-	-	-	-	-
10	D.Hari HaraSantosh	7	-	-	-	-	-	-	-	-	-
11	M. L P Rani	1	-	-	-	-	-	-	-	-	-
12	K. Saritha Raj	1	-	-	-	-	-	-	-	-	-
13	M.Vinodh Kumar	2	-	-	-	-	-	-	-	-	-
14	A.Ashok Kumar	3	-	-	-	-	-	-	-	-	-

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

22. Student projects

- a) Percentage of students who have done in-house projects including inter

departmental/ programme.

100% students have done in-house projects.

- b) Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies: NIL

23. Awards/Recognitions received by faculty and students

a) Faculty : NIL

b) Students:

**Achievements : 2011-2012**

S No	Name of Student	Year of Study	Name of the event & position	Date & Place
1	A.Meghana 09331A0414	III	Inter college youth festival, Rangoli Competition 1 <sup>st</sup> prize	16/12/2011 JNTU Kakinada

**Achievements : 2010-2011**

Mr. B. V .N RAMA KRISHNA bearing Regd. No. 08331A0409 of III B.Tech – I – Sem for winning 1<sup>st</sup> Prize in clay modeling in Inter college youth festival at JNTU Kakinada

Best appreciation award in clay modelling in the south zone inter university youth festival at Shastra university, Tanjavur.

**AWARDS LIST IN 2012-13:**

S.NO	NAME	YEAR OF STUDY	PUBLICA TION TITLE	DATE & EVENT NAME	REMAR KS
1.	M. Srujana	IV year	Comparisio n of texture classificati on using SVM and neural networks	IETE National conference on advance communicatio n and computer technologies- July 2012	FIRST
2.	M.Bharathi Devi				

**AWARDS LIST IN 2011-12:**

S.NO	NAME	YEAR OF STUDY	PUBLICA TION TITLE	DATE & EVENT NAME	REMAR KS
------	------	---------------	--------------------	-------------------	----------

1.	M. Srujana	III year	Finger Print Recognition Technology	24/2/12 INTERACT 2K12	SECOND
2.	P.Vishnu Vandana	III year	Finger Print Recognition Technology	24/2/12 INTERACT 2K12	SECOND
3.	G.Challama Naidu	III year	Guidance wheel chair using EOG	24/2/12 SPIKES-2012	FIRST
4.	T. Sarath Kumar	III year	Guidance wheel chair using EOG	24/2/12 SPIKES-2012	FIRST
5.	P. Vishnu Vandana	III year	Contact based image retrieval	24/2/12 SPIKES-2012	FIRST
6.	M. Srujana	III year	Contact based image retrieval	24/2/12 SPIKES-2012	FIRST
7.	A.Ganesh	III year	Guidance wheel chair using EOG	24/2/12 SPIKES-2012	FIRST
8.	Ch.Anjani	II year	DNA Computing	23/9/11 Estrado-2k11	SECOND

## AWARDS LIST IN 2010-11:

S. NO	NAME	YEAR	PUBLICATION TITLE	EVENT NAME	REMARKS
1	P.Ritesh	III	Red Tacton	Interact 2k10	First Prize
2	V.Sireesha	III	Wreckage	StrikerAdhikrut	First Prize
3	P.Sireesha	III	Wreckage	StrikerAdhikrut	First Prize
4	P. Sireesha	III	Robozone3.0	Kshetragn 2010	First Prize
5	M.V.Radhika	III	Wi-Fi(Poster Presentation)	Artifex	Second Prize

## University Results

Mr. Pradeep Kesapragada of ECE 2005-09 Batch receiving University Gold medal from Hon'ble Vice-Chancellor Prof. Allam Appa Rao. JNTUK.

## 24. List of eminent academicians and scientists/visitors to the department

Year	Name of the Academician/Scientist	Designation	Organization	Purpose of Visit
2010-11	Sri S.Shanmukha Rao	Scientist D	LSIRD	Guest Lecture
	Dr.R.Surya Narayana Raju,	Scientist D	CEERI	Guest Lecture
	Sri K.Srikanth,	Scientist C	NSTL	Guest Lecture
	Dr.N.S.Murthy	Professor	NIT Warangal	Guest Lecture
2011-12	Sri SM.Chakravarthy,	Director – II,	DLRL, Hyderabad.	Guest Lecture
	Sri Abraham Varughese,	Scientist – F,	NSTL, Visakhapatnam.	Guest Lecture / Workshop
	Sri T.K.C.Patro,	Associate Director,	NSTL, Visakhapatnam.	Guest Lecture / Workshop
	Akula Naresh,	Scientist – D,	NSTL, VSP	Guest Lecture / Workshop
2012-13	Dr.S.Srinivas Kumar,	Professor,	ECE, JNTU, Kakinada	Guest Lecture
	Mr. Gopi Kumar Bulusu,	CEO	Sankhya Technologie	Guest Lecture
	Rakesh Kumar	Application Engineer	National Instruments, Bangalore	Guest Lecture
	Dr. Ch.Srinivasa Rao,	Professor,	JNTU, Vizianagaram	Guest Lecture
	Akula Naresh,	Scientist – D,	NSTL, VSP	Workshop
	Mr.V.Jagan Naveen	Associate Professor	GMRIT, Rajam.	Workshop
	Dr.G.T.Rao	Professor	GVPCE VIZAG	Workshop

	Dr.M.V.S.Sai Ram	Professor	GVPCE VIZAG	Workshop
	Dr. B. Prabhakara Rao	Dean	JNTUK-K	Workshop
2013-14	Prof. G.T. Rao,	Professor	GMRIT	Guest Lecture
	Prof. N.S. Murthy,	Professor	NIT-W	Guest Lecture
	Prof. Ganapathi Pande,	Dy. Director	IIT BHU	Guest Lecture

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S.No.	Name of the Program	Date
1.	Workshop on Latest Technologies in Electronic communications (WOLTEC-05)	12 <sup>TH</sup> & 13 <sup>TH</sup> , March 2005
2.	Students Technical Symposium (SPACETEC-07)	03 <sup>rd</sup> & 04 <sup>th</sup> , January, 2007
3.	Workshop on Latest Technologies in Electronic communications(WOLTEC-07)	09 <sup>th</sup> & 10 <sup>th</sup> , March, 2007
4.	Workshop on Latest Technologies in Electronic communications(WOLTEC-08)	14 <sup>TH</sup> & 15 <sup>TH</sup> , February 2008
5.	Aadhrita-08	8 <sup>th</sup> -10 <sup>th</sup> February 2008
6.	Students Technical Symposium (PRAKIRANA – 09)	21 <sup>TH</sup> , March, 2009
7.	Students Technical Symposium (NIMBUS – 10)	12 <sup>TH</sup> , March, 2010
8.	Wipro Mission 10X High Impact Teaching Skills	7 <sup>th</sup> - 11 <sup>th</sup> June
9.	Wipro Mission 10X Advanced workshop	17 <sup>th</sup> -18 <sup>th</sup> September 2010
10	Faculty Development Program Wipro Mission 10X	19 <sup>th</sup> – 26 <sup>th</sup> April 2011
11	Wipro Mission 10X High Impact Teaching Skills	25 <sup>th</sup> – 29 <sup>th</sup> Oct 2011
12	Wipro Mission 10X Advanced workshop	12 <sup>th</sup> -13 <sup>th</sup> December 2011
13	Workshop on Latest Technologies in Electronic communications(WOLTEC-11)	22 <sup>ND</sup> & 23 <sup>rd</sup> , December

14	Aadhrita-12	27th-29th February 2012
15	Teacher Training Program in Digital Communications	25 <sup>th</sup> – 30 <sup>th</sup> June 2012
16	Workshop on Digital Communication Laboratory	21 <sup>st</sup> July 2012.
17	Workshop on Lab view of National Instruments	1 <sup>st</sup> to 3 <sup>rd</sup> November
18	Workshop on VLSI Design using mentor graphics tools	3 <sup>rd</sup> & 4 <sup>th</sup> January 2013
19	NI LabVIEW Training Program	Aug 19 to 23 <sup>rd</sup> , 2013
20	Students Technical Symposium (PRAKIRANA -14)	25-03-2014
21	FDP on Cyber Physical System Using NI LabVIEW	10-04-2014
22	Short Term Course on Analog and Mixed signal circuit design using Mentor Graphics Tools	13 <sup>th</sup> to 19 <sup>th</sup> June 2014
23	FDP on NI LabVIEW for Teaching and Research Applications	23 <sup>rd</sup> to 27 <sup>th</sup> June 2014

b) International Workshops/ Conferences Conducted: **NIL**

26. Student profile programme/course wise:

Year	Name of the Course/ program	Applications received	Selected(Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2006-10	B.Tech (ECE)	*	132	95	37	87.79
2007-11		*	143	92	51	84.14
2008-12		*	134	86	48	93.70
2009-13		*	132	85	47	90.84
2008-10	M.Tech (VLSI)	*	---	---	---	---
2009-11		*	18	15	3	94.44
2010-12		*	18	11	7	94.44
2011-13		*	17	14	3	94.12

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

27. Diversity of Students

Year of Admission	Name of the Course	% students from the same State	%of students from other States	%of students from abroad
2009-10		100	0	0
2010-11		100	0	0
2011-12		100	0	0

2012-13	B.Tech (ECE)	100	0	0
2013-14		100	0	0
2009-10	M.Tech (VLSI)	100	0	0
2010-11		100	0	0
2011-12		94.44	0	0
2012-13		100	0	0
2013-14		100	0	0

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			
	2009-10	2010-11	2011-12	2012-13
GATE	18	17	22	28
Civil services	-	-	-	-
Defense services	1	-	-	-
SLET	-	-	-	-
NET	-	-	-	-
GRE	11	15	16	18
Public Sectors	3	2	2	1

29. Student progression.

Student progression	Against % enrolled	
UG to PG	23	
PG to M.Phil.	--	
PG to Ph.D.	1	
Ph.D. to Post-Doctoral	1	
Employed	•Campus selection	41
	•Other than campus recruitment	15
Entrepreneurship/Self-employment	10	

30. Details of Infrastructural facilities

a) **Library:** Plinth Area: 53.1sq.mts.

No.of Titles	No.of Volumes	No.of Computers	No.of E-Journals	No.of Print Journals
406	681	4	7326	159

b) **Internet facilities for Staff & Students:**

- All 150 Desktops in the department are connected with intranet
- 16 MBPS leased internet line

c) **Class rooms with ICT facility: 01**

d) **Laboratories: 07**

S. No.	Name of the laboratory	Area (Sq.Mts)	Total Investment(Rs.)
1	Electronic and Devices and Circuits Lab	143.87	1,042,349.19

2	Pulse and Digital Circuits Lab	143.87	651,214.20
3	Analog / Digital Communications Lab	163.97	1,706,437.56
4	Electronic Computer Aided Design Lab	143.87	5,283,523.43
5	Digital Signal Processing Lab	163.97	3,475,967.20
6	Microwave & Optical Communication / Microprocessors & Interfacing Lab	143.87	5,935,240.35
7	M.Tech Lab	53.51	9,09,000.00

31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No. of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	171	189	204	246	300
Other agencies	-	-	-	-	-

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

Year	Title of the Programme	Special lectures/workshops/seminar	Date(s)	No. Benefited
2010-11	VLSI Design Trends and Methodologies	Special Lectures	28-6-10	172
	1.Simulation of Electron Beam System 2.Trends in High Power Microwave Devices	Special Lectures	28-6-10	181
	Trends in Defense Technologies	Special	25-9-10	190
	VLSI & DSP Architecture	Special	18-3-11	165
2011-12	Broad band antennas and their design aspects	Special Lectures	22-12-11	172
	Embedded Systems and System Networking.	Special Lectures	23-12-11	187
	Radar Cross Section Measurements.	Special Lectures	23-12-11	135
2012-13	Recent Trends in Digital Communications	Special Lectures	28-06-12	152
	Image Processing – Applications, Trends and Research areas	Special Lectures	12-09-12	175

	High performance computing	Special Lectures	15-09-12	142
	Overview of Lab view	Special Lectures	15-02-13	165
	Principles of Communication Engineering	Special Lectures	12-03-13	151
2013-14	Low Power VLSI Design	Special Lectures	06-03-14	163
	Optimization Techniques	Special Lectures	08-03-14	148
	Next Generation Networks	Special Lectures	21-03-14	141

33. Teaching Methods Adopted to improve student learning

- Assigning seminar topics.
- Offering special coaching for GATE exam.
- Special training to motivate students to present papers in Conferences /Seminars.
- Conducting special training for MICROSOFT Certifications like MOS, MTA, MCP through Microsoft Advantage Program.
- Advising to participate in classroom seminars, group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills.
- Motivating to access latest online journals, reference materials and help them to understand the emerging trends in their field of study
- Training to use audiovisual aids like power point, charts, model sets for effective presentation
- Providing opportunities to develop their creativity by organizing intercollegiate as well as national level cultural, literary, technical and sports competitions.
- Conducting add-on / Certification programs to develop skills and provide exposure to latest industry practices

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

**NSS Activities**

FINANCIAL YEAR: 2013- 14				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Awareness Programme on Role of Youth in Village Development	17/04/13	17/04/13

2	NSS Unit	Awareness Programme on Adoption of Disabled children & Distributing required study material & Free lunch arrangements to Deaf & Dumb Children	17/06/13	17/06/13
3	NSS Unit	Donation of books to Poor Students	7/7/2013	7/7/2013
4	NSS Unit	Awareness Programme on Rural Education & Distribution of School Uniform to poor children	17/07/13	17/07/13
5	NSS Unit	Independence Day Celebrations	15/08/13	15/08/13
6	NSS Unit	Teachers Day Celebrations	5/9/2013	5/9/2013
7	NSS Unit	World Peace Pledge	21/09/13	21/09/13
8	NSS Unit	Awareness Programme on Adult Education	19/11/13	19/11/13
9	NSS Unit	Awareness Programme on Library & It's utilization	20/11/13	20/11/13
10	NSS Unit	Blood donation camp - 15th Birthday celebrations of Swami Vivekananda	10/1/2014	10/1/2014
11	NSS Unit	*NSS SPECIAL CAMP at Venkampeta & chittigunkalam	*27/1/2014	*1/2/2014
12	NSS Unit	Distribution of utensils & clothes - Chinaravada - Bhogapuram	21/3/14	21/3/14
13	NSS Unit	Blood donation camp - MVGR 17th Annual day celebrations -	28/3/14	28/3/14

FINANCIAL YEAR: 2012- 13				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Blood Donation Camp-I	02.05.12	02.05.12
2	NSS Unit	Awareness Program on Non-Conventional Energy Sources	23.05.12	23.05.12

3	NSS Unit	Awareness Program on Blood Donation	14.06.12	14.06.12
4	NSS Unit	Donation of Books to School Children	7.7.12	7.7.12
5	NSS Unit	Independence Day Celebrations	15-08-12	15-08-12
6	NSS Unit	Blood Donation Camp-II	25.8.12	25.8.12
7	NSS Unit	Teacher's day celebrations	5/9/2012	5/9/2012
8	NSS Unit	Engineers Day Celebrations Blood Donation Camp-III	15-09-12	15-09-12
9	NSS Unit	International Blood Donation Week	1.10.12	1.10.12
10	NSS Unit	Distributed 80 smokeless chulas for rural people with the help of NEDCAP at PEDADA village Denkada mandal	2.10.12	2.10.12
11	NSS Unit	Silent rally at Vizianagaram from Fort to Collector Office against "Women Social Issues"	02.01.13	02.01.13
12	NSS Unit	National Youth Day	12.01.13	12.01.13
13	NSS Unit	Trauma Care-Initial Counseling & Data collection, General Medical Check-up	4/2/2013	4/2/2013
		Self-employment schemes for youth		
		Gynecology & Pediatrician Counseling	5/2/2013	5/2/2013
		Cleanliness For A Healthy World		
		Awareness Programmes against infected diseases (AIDS)	6/2/2013	6/2/2013
		Literacy- Awareness, Women's education		
		Videos presentation about Government schemes for rural people	7/2/2013	7/2/2013
		Prevention of School drop outs, Improvement in village level education		
		Plantation programme	8/2/2013	8/2/2013
		Environmental awareness programme		
Disaster Management & Com M Safety measures				

		Awareness Programmes on Social & Ethical Values	9/2/2013	9/3/2013
		Legal Awareness-Right to information & consumerism		
14	NSS Unit	Republic day celebrations	26-01-13	26-01-13
15	NSS Unit	Blood Donation Camp - IV	2/3/2013	2/3/2013

FINANCIAL YEAR: 2011- 12				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2011	5/7/2011
2	NSS Unit	Awareness program on rural women and child health	12/7/2011	12/7/2011
3	NSS Unit	Independence Day Celebrations	15-08-11	15-08-11
4	NSS Unit	Blood donation camp-I	25-08-11	25-08-11
5	NSS Unit	Teacher's day celebrations	5/9/2011	5/9/2011
6	NSS Unit	Blood donation camp-II	15-09-11	15-09-11
7	NSS Unit	Engineers day celebrations	15-09-11	15-09-11
8	NSS Unit	World peace pledge	21-09-11	21-09-11
9	NSS Unit	Essay Writing competitions	1/10/2011	1/10/2011
10	NSS Unit	Library week celebrations	19-11-11	19-11-11
11	NSS Unit	AIDS awareness rally	1/12/2011	1/12/2011
12	NSS Unit	Republic day celebrations	26-01-12	26-01-12
13	NSS Unit	Pulse polio immunization	29-02-12	29-02-12
14	NSS Unit	Blood donation camp-III	3/3/2012	3/3/2012
15	NSS Unit	Literacy Awareness Rally	2/3/2012	2/3/2012
		Awareness program on Environment & Conservation	2/3/2012	2/3/2012
		Medical Camp	3/3/2012	3/3/2012
		Literacy Awareness Program	3/3/2012	3/3/2012
		Medical Camp (Eye check Up)	4/3/2012	4/3/2012

		Legal Awareness Camp	4/3/2012	4/3/2012
		Medical Camp	5/3/2012	5/3/2012
		Awareness program on Pollution control & Blood donation	5/3/2012	5/3/2012
		Veterinary Camp	6/3/2012	6/3/2012
		Aids Awareness Program	7/3/2012	7/3/2012
		Plantation Program	8/3/2012	8/3/2012

FINANCIAL YEAR: 2010- 11				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2010	5/7/2010
2	NSS Unit	Independence Day Celebrations	15-08-10	15-08-10
3	NSS Unit	Blood Donation camp-I	25-08-10	25-08-10
4	NSS Unit	Teacher's day celebrations	5/9/2010	5/9/2010
5	NSS Unit	Engineers day Celebrations	15-09-10	15-09-10
6	NSS Unit	Blood Donation Camp-II	15-09-10	15-09-10
7	NSS Unit	Essay Writing Competitions	2/10/2010	2/10/2010
8	NSS Unit	Orientation Classes	7/10/2010	15-10-10
9	NSS Unit	AIDS Awareness Rally	1/10/2010	1/10/2010
10	NSS Unit	National Youth Day Celebrations	12/1/2011	12/1/2011
11	NSS Unit	Inauguration of a Student Organization (FYFP)	12/1/2011	12/1/2011
12	NSS Unit	Republic day Celebrations	26-01-11	26-01-11
13	NSS Unit	International Student Leadership Day	3/2/2011	3/2/2011
14	NSS Unit	Blood Donation Camp -III	3/3/2011	3/3/2011
15	NSS Unit	International Women's Day Celebrations	8/3/2011	8/3/2011

35. SWOC analysis of the department and Future plans

- a) **Strengths**
  - Availability of qualified and experienced faculty.
  - Well-equipped laboratories with latest systems and required software.
  - Availability of research facilities in thru stare as like Mobile Computing, Network Security, etc.
  - Systematic monitoring of teaching-learning process.
  - Active participation of alumni for career guidance and improvement.
- a) **Weaknesses**
  - Lack of software industries in nearby place.
  - Students are lacking communication skills at the entry level as many of them are coming from rural areas.
- b) **Opportunities**
  - Amicable management attitude in the form of special pays and incentives attracting qualified and experienced faculty.
  - Soft skills and related training by T&P Cell and association with alumni grabs the opportunities to raise the employability of the students.
- c) **Constraints**
  - Because of more number of Engineering Colleges, quality of intake is poor, especially in rural Engineering Colleges.
- d) **Future Plans**
  - To enter into MOUs with a couple of multinational companies.
  - To take up R&D projects from funding agencies like DST, UGC and
- e) **AICTE.**
  - TotakeupconsultancyworksofatleastRs.5lakhsinnextthreeyears.

**EVALUATIVE REPORT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT**

- Name of the department: **ELECTRICAL & ELECTRONICS ENGINEERING**
- Year of Establishment : 2001
- Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)

UG : B.Tech. (EEE)

PG : M.Tech (Power Systems)

- Names of Interdisciplinary courses and the departments/units involved:

S. No.	Subject	Department
1.	Environmental Studies	Chemical Department
2	Engineering Mechanics	Civil Department
3	C Programming	CSE Department
4	EDC	ECE Department
5	Engg Drawing & FMHM	Mechanical Department
6	Management Science	Master of Business Administration

- Annual/semester/choice based credit system(programme wise)  
 B.Tech (EEE) – Semester based credit system-Electives in higher semesters  
 M.Tech (Power Systems) – Semester based credit system-Electives in each semester

- Participation of the department in the courses offered by other departments

Sl.No.	Programme	Courses offered by other departments
1	UG	Civil Engineering (Civil)
2		Chemical Engineering (Chem.)
3		Electronics & Communication Engineering (EEE)
4		Mechanical Engineering (Mech.)

- Courses in collaboration with other universities, industries, foreign institutions, etc.: NIL
- Details of courses/programmes discontinued (if any) with reasons: NIL
- Number of Teaching posts

Designation	Sanctioned	Filled

Professors	03	03
Associate Professors	03	03
Assistant Professors	10	10

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	Students guided for the last 4 years
1	Prof. D.J.J. Ramachandra Raju	M.E	Professor	Machines	45 Y	--
2	Dr. R.Gowrisankara Rao	M.Tech, Ph.D	Professor	Power Systems (HVE)	16 Y	--
3	Dr. Sarat Kumar Sahu	M.Tech, Ph.D	Professor	Power Electronics	13 Y 2 M	4
4	Sri. K.S.Ravi Kumar	M.Tech	Associate Professor	Control Systems	11 Y 11 M	--
5	Sri. I.Kranthi Kiran	M.Tech (Ph.D)	Associate Professor	Power Systems (HVE)	16 Y 5 M	--
6	Sri. M.Venu Madhav	M.Tech (Ph.D)	Associate Professor	EM and Industrial Drives	11 Y	--
7	Sri. P.Sai Srinivas	M.Tech (Ph.D)	Sr. Asst. Professor	Power Systems	11 Y 4 M	--
8	Sri. N. Tejeswara Rao	M.E	Sr. Asst. Professor	Power System and Automation	11 Y 1 M	-
9	Sri. K. Prasada Rao	M.Tech (Ph.D)	Assistant Professor	Power Systems (HVE)	10 Y	--
10	Sri. K.V.V.Prasad	M.Tech	Assistant Professor	High Voltage Engineering	8 Y 10 M	--
11	Sri. P.A.Mohana Rao	M.Tech (Ph.D)	Assistant Professor	Power & Industrial Drives	9 Y 1 M	--
12	Sri. Ch.Bhavani Sankar	M.Tech (Ph.D)	Assistant Professor	Power System & Operation Control	10 Years	-
13	Sri. P.Pavan Kumar	M.Tech, MBA	Assistant Professor	Power Systems & Automation	1 Yr 11 M	--
14	Sri. Ch.Satyanarayana	M.Tech	Assistant Professor	Power Electronics and Drives	1 Y	--
15	Sri. B.Jagannadh Ch. Yadav	M.E	Assistant Professor	Control Systems	11 M	--

16	Sri. T.Sudhakar	M.Tech	Assistant Professor	Control Systems	7 M	--
----	-----------------	--------	---------------------	-----------------	-----	----

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 : B.Tech. - 1:15

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff(Technical)	08	08
Administrative staff	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No.ofFaculty with D.Sc/ D.Litt	No.of Faculty with Ph.D	No.ofFaculty with M.Phil	No.ofFaculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No.offaculty with UG (B.Tech)
-	2	-	16	-

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: **NO**

19. Publications:(Last four years)

- a) Publication per faculty

S. No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSNnumbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Schmago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
-------	---------------------	--------------------	------------	------------------	--------------	--	----------------	--	----------------------------	--	----------------------------------

1	Prof. D.J.J. Ramachandra Raju	01	-	-	-	-	-	-	-	01	02
2	Dr. R.Gowrisankara	06	-	-	-	-	-	-	-	05	-
3	Dr. Sarat Kumar Sahu	11	-	-	-	-	-	-	-	08	10
4	Sri. K.S.Ravi Kumar	18	-	-	-	-	-	-	-	03	-
5	Sri. I.Kranthi Kiran	11	-	-	-	-	-	-	-	09	-
6	Sri. M.Venu Madhav	01	-	-	-	-	-	-	-	01	-
7	Sri. P.Sai Srinivas	02	-	-	-	-	-	-	-	01	-
8	Sri. N. Tejeswara Rao	03	-	-	-	-	-	-	-	-	-
9	Sri. K. Prasada Rao	01	-	-	-	-	-	-	-	-	01
10	Sri. K.V.V.Prasad	-	-	-	-	-	-	-	-	-	-
11	Sri. P.A.Mohana Rao	-	-	-	-	-	-	-	-	-	-
12	Sri. Ch.Bhavani	-	-	-	-	-	-	-	-	-	-
13	Sri. P.Pavan Kumar	04	-	-	-	-	-	-	-	02	-
14	Sri. Ch.Satyanarayana	--	-	-	-	-	-	-	-	-	-
15	Sri. B.Jagannadh Ch.	-	-	-	-	-	-	-	-	-	-
16	Sri. T.Sudhakar	-	-	-	-	-	-	-	-	-	-

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

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/ programme.
  - **100%students have done in-house projects.**
- b) Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies: **NIL**

23. Awards/Recognitions received by faculty and students

- a) Faculty : NIL
- b) Students:

S.No	Name of the Student	Year of Study	Event	Institute/ University	Award
------	---------------------	---------------	-------	-----------------------	-------

1	M. Chandra Sekhar R. Praneeth V. Prasanna Kumar	III/IV B.Tech	Colloquia – The Technical Paper Presentation WISSENAIRE ‘11 Knowledge runs free 4 <sup>th</sup> to 6 <sup>th</sup> march 2011	IIT, Bhubaneswar	<b>Winner s</b>
2	Adapa Sushma	II/IV B.Tech	A National level Technical Symposium on IIZA – 2K11 Event: Movie – Making 21 <sup>st</sup> February 2011	Chaitanya Engg College, Visakhapatna m	<b>Runner s</b>
3	Adapa Sushma	II/IV B.Tech	A National level Technical Symposium on IIZA – 2K11 Event :Poster Presentation 21 <sup>st</sup> February 2011	Chaitanya Engg College, Visakhapatna m	<b>Winner s</b>
4	Adapa Sushma	II/IV B.Tech	A National level Technical Symposium on IIZA – 2K11 Event: Paper Presentation 21 <sup>st</sup> February 2011	Chaitanya Engg College, Visakhapatna m	<b>Winner s</b>
5	M.S.P.Ramya	III/IV B.Tech	A National Level Students Technical Symposium KshETRAGN – 2010 08 <sup>th</sup> & 09 <sup>th</sup> March 2010	GITAM Institute of Technology, GITAM, Visakhapatna m	<b>Winner s</b>
6	I.Sagar Sandeep B.Pradeep Kumar	II/IV B.Tech	A National Level Students Technical Symposium “IIZA – 2K10” 06 <sup>th</sup> March 2010	Chaitanya Engg. College, Visakhapatna m	<b>Winner s</b>
7	D. Narendra T.Santosh Kumar M.Sundeep Kumar	III/IV B.Tech	A National Technical Symposium Gen X challenge – 2010 05 <sup>th</sup> & 06 <sup>th</sup> March 2010	Raghu Engg. College, Dakamarri Visakhapatna m	<b>Winner s</b>

8	Varsha Tarachand Nagpal Addala Padmini K.Nireesha	III/IV B.Tech	A National Level Techno-Management Event Topic: "Low Voltage problems and compensation" INTERFACE-09 2 <sup>nd</sup> & 3 <sup>rd</sup> March 2009	GITAM University Visakhapatnam	<b>Winners</b>
9	Varsha Tarachand Nagpal	II/IV B.Tech	District Level Elocution Competition, VZM 26 <sup>th</sup> January 2009	Dr.V.S.Krishna Govt. Degree College, VSP	<b>Winners</b>

S. No	Name of the Student	Seminar/Workshop/Conference Attended	Held at	Duration
1	M. Chaitanya D.S.Rohit G. Jai Deep R.S.Nischal Dev M. Chaitanya Kumar D.Sushanth K.Lavanya D.Madhu	Robo Tryst – 2013 "A hunt for India's Super robo Gennius"	IIT, Delhi	01 <sup>st</sup> – 04 <sup>th</sup> March 2013
2	Ch. Lokesh Balaraju A.Sai Santosh	The International Conference on Communication Computing and Information Technology ICCCMT	MOP Vaishnavi College for Women Chennai	21 <sup>st</sup> & 22 <sup>nd</sup> December 2012
3	V. Divya	IEEE International Conference on Power Electronics, Drives and Energy Systems PEDES - 2012	NSS Complex CPRI Bangalore	16 <sup>th</sup> – 19 <sup>th</sup> December 2012
4	S. Sree Ram	National Conference on emerging Trends in chemical Research (NCETCR - 2012)	GITAM University Visakhapatnam	7 <sup>th</sup> & 8 <sup>th</sup> September 2012
5	Vadlamanu Phanendra Kumar Beera Shekar Moida Venkatesh	International Conference on "Innovation in Electronics and Communication Engineering (ICIECE-2012)"	Gurunanak institute of Technology Ibrahampatnam, Rangareddy	20 <sup>th</sup> – 21 <sup>st</sup> July 2012

6	J. Omkar Krishna	Title: Classification of Power Quality problems using SVM, fuzzy logic and wavelets Analysis, International Conference on Electrical and Electronics engineering (ICEEE)	ICEEE – 2012 Tirupati	09 <sup>th</sup> June 2012
7	Vadlamanu phanendra kumar GVSP Pavani BSLR Shaili	A National Level Technical Symposium ZEITGEIST 2K12	University College of Engineering JNTU, Kakinada	03 <sup>rd</sup> – 04 <sup>th</sup> March 2012
8	KSV Phanindra	Elemental Approach to Determine the Effects of Armature Reaction and saturation in a permanent magnet BLDC Generator	Indian Science Congress KIIT University, Bhubaneswar	03 <sup>rd</sup> to 07 <sup>th</sup> January 2012
9	B. Tejaswi P.Sravani Sandhya B. Godadevi I/IV B.Tech	A National Level Technical Symposium ADROIT – 2K11	SARADA Institute of Technology and Management, SKLM	1 <sup>st</sup> March 2011
10	S. Sree Ram K.ananth Krishna P.Vamsi Varma I/IV B.Tech	A National Level Technical Symposium ADROIT – 2K11	SARADA Institute of Technology and Management, SKLM	1 <sup>st</sup> March 2011
11	Adapa Sushma II/IV B.Tech	A Two Day National Level Student Technical Synposium INTERACT – 2K11 Topic: Poster Presentation on “Optical Camouflage”	ANITS, Visakhapatnam	19 <sup>th</sup> & 20 <sup>th</sup> February 2011
12	Adapa Sushma II/IV B.Tech	A Two Day National Level Technical Meet TECHNOCRACY	AVANTHI institute of Engg & Technology, Bhogapuram	14 <sup>th</sup> & 15 <sup>th</sup> February 2011
13	Adapa Sushma II/IV B.Tech	National Level Technical Symposium GREENTECH – 2011 Presented on Paper & Quiz in Green	MVGRCOE VZM	19 <sup>th</sup> & 20 <sup>th</sup> January 2011

		Technology		
14	Adapa Sushma II/IV B.Tech	National Level Mechanical Engineering Students Conference MESCON'10 Topic: Robotics	Dept of MECH AU college of Engg, VSP	23 <sup>rd</sup> & 24 <sup>th</sup> September 2010
15	Adapa Sushma II/IV B.Tech	A National Level Technical Symposium PROWESS – 2KX	AVANTHI Institute of engg & Technology, VSP	26 <sup>th</sup> March 2010
16	M.Hemanth Kumar A.Vamsi Krishna III/IV B.Tech	National Level Students Technical Symposium Topic: “Wireless Power Transfer Technology” STEPSTONE – 10	GMRIT Rajam, Srikakulam	08 <sup>th</sup> & 09 <sup>th</sup> January 2010
17	R.Sai Kiran M.N.S.Prakash III/IV B.Tech	National Level Students Technical Symposium Topic: “Fuelcells away forward” STEPSTONE - 10	GMRIT Rajam, Srikakulam	08 <sup>th</sup> & 09 <sup>th</sup> January 2010
18	K.V.Dinesh Gupta D.Narendra III/IV B.Tech	National Level Technical Symposium Topic: “Electronic Waste” ABHYANTHA - 10	GVP College of Engg VSP	04 <sup>th</sup> January 2010
19	Arvind Upadhyaya P.Bhargav IV/IV B.Tech	Topic: “Smart power Grid”	The Institution of Engineers (India), Hyderabad	15 <sup>th</sup> & 16 <sup>th</sup> July 2009
20	Karthik Ayyagari P. Bhargav K.S.G.Tarun III/IV B.Tech	A National Level Technical Symposium : Topic: Micro Power Generation” EESTITHA – 09	Pydah College of Engineering, Visakhapatnam	06 <sup>th</sup> & 07 <sup>th</sup> March 2009
21	Y. Vineela II/IV B.Tech	National Level Student Technical Paper Contest & Exhibition Topic: “GPS Satellites” STEPSTONE - 09	GMRIT Rajam, Srikakulam	09 <sup>th</sup> & 10 <sup>th</sup> January 2009

## 24. List of eminent academicians and scientists/visitors to the department

S. No	Name of the Guest faculty	Affiliation	Purpose of Visit	Visit dates	Year
-------	---------------------------	-------------	------------------	-------------	------

1	Sri. M. Dharma Raju,	ADE, APEPDC Ltd, Visakhapatnam	Guest Lecture	26-07-2013	2013
2	Dr. D.Devendranath	Additional Director, CPRI,Hyderabad	Guest Lecture	20-07-2013	2013
3	Sri. M. Ramachandra,	AGM, Thermal Power Plant, Steel Plant, VSP	Guest Lecture	19-07-2013	2013
4	Sri. V. Ravi Shankar,	Assistant Engineer – Energy Audit, APEPDCL, VSP	Guest Lecture	12-07-2013	2013
5	Sri. R. SaileshRao,	New Dawn Automation Training & Services, VSP	Guest Lecture	21-07-2012	2012
6	Sri. Krishnendu Roy,	DGM, Steelplant, Visakhapatnam	Guest Lecture	18-02-2012	2012
7	Dr. Debapriya Das,	Professor, IIT, Khargapur	Guest Lecture	19-12-2011	2011
8	Sri. N.S.P.Rao,	Superintendent, NTPC Simhadri, Parawada	Guest Lecture	13-10-2011	2011
9	Prof. D.M. Vinodh Kumar,	Dean (Academics),NIT, Warangal	Guest Lecture	02-07-2011	2011
10	Dr. S V L Narsimham,	Professor,SIT, JNTUH, Hyd	Guest Lecture	26-05-2011	2011
11	Sri S Ganapathi,	Superintending Engineer (Rtd.),APTRANS CO	Guest Lecture	09-03-2011	2011
12	Sri Pradeep Kumar Das,	Manager (Electrical), BHPV Ltd, VSP	Guest Lecture	18-08-2010	2010
13	Sri R V RamanaRao,	Divisional Electrical Engineer (Rtd),APEPDCL, VSP	Guest Lecture	13-08-2010	2010
14	Prof.V.Gpatnaik ,	Chairman, Placements, GITAM University, VSP	Guest Lecture	31-07-2010	2010

15	Ch KameswaraRao,	Dy. Manager, Electrical Design, Hindustan Shipyard Ltd, VSP	Guest Lecture	04-07-2009	2009
16	M K Gupta,	Sr. DEE, Traction Loading Stock, Electric Locomotive, ECRailway, VSP	Guest Lecture	04-03-2009	2009
17	C S Jeengar,	(ADRM), East Coast Railway, Waltair, Visakhapatnam	Guest Lecture	04-03-2009	2009

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S.No	Year	Name of the Seminar/Conference/Workshop	Date(s)	Source of funding	Amount spent (Rs.)
1	2010	Two Day National Student Symposium SURGE 2KX SURGE 2KX	13 <sup>th</sup> & 14 <sup>th</sup> March 2010	MVGR	2,15,000-00
2	2011	One-Day National Level Student Symposium SURGE 2KXI	26 <sup>th</sup> February 2011	MVGR	73,000-00
3	2012	Short Term Training Program on "Introduction to MATLAB Programming and SIMULINK – 2012" IMPS-2012	30 <sup>th</sup> May – 02 <sup>nd</sup> June 2012	MVGR	17,801-00
4	2014	Three day national workshop on "Power Quality improvement in Hybrid energy systems"	24 <sup>th</sup> -26 <sup>th</sup> January 2014	AICTE	1,66,729-00

b) International Workshops/ Conferences Conducted: **NIL**

## 26. Student profile programme/course wise:

Year	Name of the Course/ program	Applications received	Selected (Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2006-10	B.Tech (EEE)	*	66	47	19	98.41

2007-11	*	72	51	21	93.75
2008-12	*	67	48	19	96.87
2009-13	*	66	47	19	88.05
2010-14	*	72	52	20	NA

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

27. Diversity of Students

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2009-10	B.Tech (EEE)	100	0	0
2010-11		100	0	0
2011-12		100	0	0
2012-13		100	0	0
2013-14		100	0	0

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				
	2009-10	2010-11	2011-12	2012-13	2013-14
GATE	15	26	18	19	13
Civil services	-	-	-	-	-
Defense services	-	-	-	-	-
SLET	-	-	-	-	-
NET	-	-	-	-	-
GRE	-	-	-	-	-
Public Sectors	-	-	-	-	-

29. Student progression.

Student progression	Against % enrolled
UG to PG	16.09
PG to M.Phil.	NA

PG to Ph.D.	-	
Ph.D. to Post-Doctoral	NA	
Employed	•Campus selection	34.24
	•Other than campus recruitment	19.71
Entrepreneurship/Self-employment	-	

## 30. Details of Infrastructural facilities

a) **Library:** PlinthArea: 24\*24 sq.mts.

No.of Titles	No.of Volumes	No.of Computers	No.of E-Journals	No.ofPrint Journals
219	343	5	27	10

b) **Internet facilities for Staff &Students:**

- 16 Mbps broadband leased line
- 10 Mbps NME (National Mission for Education through Information and Communication Technology)
- 02 connections of 512Kbps broadband.

c) **Class rooms with ICT facility: 02**d) **Laboratories: 09**

S. No.	Name of the laboratory	Area (Sq.Mts)	Total Investment(Rs.)
1	Electrical Simulation Lab	140 sq mtrs	27,10,256
2	Electrical Machines Lab	168 sq mtrs	18,59,339
3	Power Electronics & Control System Lab	140 sq mtrs	14,66,096
4	Networks & Electrical Measurements Lab	140 sq mtrs	12,83,489

## 31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No. of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	97	97	110	143	187
Other agencies	-	-	-	-	-

## 32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

S.No.	Name of the Guest faculty	Affiliation	Purpose of Visit	Visit dates
1	Sri. M. Dharma Raju,	ADE, APEPDC Ltd, Visakhapatnam	Guest Lecture	26-07-2013

2	Dr. D.Devendranath,	Additional Director, CPRI,Hyderabad	Guest Lecture	20-07-2013
3	Sri. M. Ramachandra,	AGM, Thermal Power Plant, Steel Plant, VSP	Guest Lecture	19-07-2013
4	Sri. V. Ravi Shankar,	Assistant Engineer – Energy Audit, APEPDCL, VSP	Guest Lecture	12-07-2013
5	Sri. R. SaileshRao,	New Dawn Automation Training & Services, VSP	Guest Lecture	21-07-2012
6	Sri. Krishnendu Roy,	DGM, Steelplant, Visakhapatnam	Guest Lecture	18-02-2012
7	Dr. Debapriya Das,	Professor, IIT, Khargapur	Guest Lecture	19-12-2011
8	Sri. N.S.P.Rao,	Superintendent, NTPC Simhadri,Parawada	Guest Lecture	13-10-2011
9	Prof. D.M. Vinodh Kumar,	Dean (Academics),NIT, Warangal	Guest Lecture	02-07-2011
10	Dr. S V L Narsimham,	Professor,SIT, JNTUH, Hyd	Guest Lecture	26-05-2011
11	Sri S Ganapathi,	Superintending Engineer (Rtd.),APTRANSC O	Guest Lecture	09-03-2011
12	Sri Pradeep Kumar Das,	Manager (Electrical), BHPV Ltd, VSP	Guest Lecture	18-08-2010
13	Sri R V RamanaRao,	Divisional Electrical Engineer (Rtd),APEPDCL, VS P	Guest Lecture	13-08-2010
14	Prof.V.Gpatnaik,	Chairman, Placements, GITAM University, VSP	Guest Lecture	31-07-2010
15	Ch KameswaraRao,	Dy. Manager,Electrical Design, Hindustan Shipyard Ltd, VSP	Guest Lecture	04-07-2009
16	M K Gupta,	Sr. DEE,Traction Loading Stock, Electric Locoshed, ECRailway, VSP	Guest Lecture	04-03-2009

17	C S Jeengar,	(ADRM),East Coast Railway, Waltair, Visakhapatnam	Guest Lecture	04-03-2009
----	--------------	---	---------------	------------

### 33. Teaching Methods Adopted to improve student learning

- Assigning seminar topics.
- Offering special coaching for GATE exam.
- Special training to motivate students to present papers in seminars.
- Conducting special training for PLC,MATLAB,LABVIEW
- Advising to participate in classroom seminars, group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills.
- Motivatingtoaccesslatestonlinejournals,referencematerialsandhelpthem to understand the emerging trends in their field of study
- Training to use audio visual aids like power point, charts, models etc for effective presentation
- Providing opportunities to develop their creativity by organizing
- Intercollegiate as well as national level cultural, literary, technical and sports competitions.

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

#### NSS activities

#### ACTIVITIES- 2010-11

Sl.no.	Name of the Programme	Date	Number of Volunteers
1.	Plantation Camp on the eve of Vana mahotsav Week	05.07.2010	6
2.	Independence Day Celebrations	15.08.2010	5
3.	Blood Donation Camp - I	25.08.2010	5
4.	Teacher's Day Celebrations	05.09.2010	7
5.	Engineer's Day Celebrations	15.09.2010	4
6.	Blood Donation Camp - II	15.09.2010	5
7.	Essay Writing Competition on the eve of Mahatma Gandhi Jayanthi	02.10.2010	3
8.	Orientation Classes	07.10.2010 to 15.10.2010	7
9.	AIDS Awareness Rally	01.12.2010	6
10.	National Youth Day Celebrations on the eve of Swami Vivekananda Jayanthi	12.01.2011	5
11.	Inauguration of a Student Organisation (F.Y.F.P.)	12.01.2011	5
12.	Republic Day Celebrations	26.01.2011	4
13.	International Student Leadership Day	03.02.2011	All four year students

14.	Blood Donation Camp – III	03.03.2011	6
15.	International Women’s Day Celebration	08.03.2011	5

ACTIVITIES – 2009-10

Sl.no.	Name of the Programme	Date	Number of Volunteers
1.	Technology Applications for poverty elimination	18.07.2009	14
2.	N.S.S. Orientation programme	07.08.2009	5
3.	Anti Ragging Rally	17.08.2009	2
4.	Rally in connection with Rajiv Gandhi Akshay Urja Diwas	20.08.2009	5
5.	Intensive Industrial Motivation Campaign on the eve of World Engineer’s Day	15.09.2009	3
6.	Guest lecture on “Stress Management”	18.09.2009	5
7.	Gandhi Jayanthi celebrations	02.10.2009	3
8.	Guest lecture on the eve of Education Day	11.11.2009	10
9.	Silent procession within campus and Distribution of ‘AASA’ material on the eve of World Aids Day	01.12.2009	3
10.	Guest lecture on Sweetness of Mother Tongue	25.02.2010	5
11.	Voluntary Blood Donation Camp	03.02.2010	13
12.	Guest lecture on “Anemia”	03.03.2010	3
13.	A Lecture on the eve of “National Science Day”	11.03.2010	4
14.	Awareness Programme on Anti Ragging	22.03.2010	14

S. No.	NSS Unit	Name of the NSS Activity	Schedule	
			From	To
01.	MVGRCE	Blood Donation Camp-I	26.08.2011	---
02.	MVGRCE	Teacher’s Day Celebrations	05.09.2011	---
03.	MVGRCE	Awareness Program On Blood Donation	07.09.2011	---
04.	MVGRCE	Blood Donation Camp-Ii	15.09.2011	---
05.	MVGRCE	Engineer’s Day Celebrations	15.09.2011	---
06.	MVGRCE	Essay Writing Competitions	01.10.2011	---
07.	MVGRCE	World Peace Pledge	21.09.2011	---

08.	MVGRCE	Library Week Celebrations	19.11.2011	---
09.	MVGRCE	Aids Awareness Rally	01.12.2011	---
10.	MVGRCE	Special Camp	02.01.2012	08.01.2012
11.	MVGRCE	Republic Day Celebrations	26.01.2011	---
12.	MVGRCE	Pulse Polio Immunization	19.02.2011	---
13.	MVGRCE	Blood Donation Camp	03.03.2012	---
14.	MVGRCE	Plantation Program And Blood Donation Program	02.05.2012	---
15.	MVGRCE	Awareness Program On Non-Conventional Energy Sources	23.05.2012	---
16.	MVGRCE	Donation Of Books To Poor Students	07.07.2012	---

### 35. SWOC analysis of the Department and Future plans

#### a) **Strengths:**

- The long track record of the trust (MANSAS) in the field of education
- Excellent infrastructure (space, equipment & information content)
- State of art laboratories
- Locational advantage:
  - Close proximity to urban area with significant industry presence while being accessible to large rural population.
- Organization structure:
  - Operative autonomy to college management directed on policy matters by a governing body constituting all academics
  - Management liberal support
  - Stable management for more than 10 years.
- NAAC, NBA accredited
- Committed full-time faculty of different specializations with a good mix of youthful energy & rich experience (both academic & industry)
- Mechanism to bridge the gap between curriculum and industry requirements.

#### b) **Weaknesses:**

- Under utilization of infrastructure
- Limited funding & other support for research
- Limitations in staff investment
- Floor area limitations.
- No staff quarters & limited hostel facility
- Staff retention in the context of increasing institutions and scarcity of quality staff.
- No established mechanism to leverage infrastructure & intellectual capital for activities outside of regular curriculum.

**c) Opportunities:**

- Industries looking for qualified engineering graduates with required skills
- Desperate student looking for institute which gives them required skills
- Small firms are looking for knowledge oriented consultancy from field experts.
- Other small educational institutes looking for us for educational consultancy.

**Opportunities Measures:**

Covering Strengths to Opportunities

- Frequent conversations & partnerships with nearby industries, so as to make our student appealing.
- International & off-campus study & exchange programs.
- Changing learning environment
- Programmes to addressing emerging trends.

**d) Constraints:**

- Risk of losing potential faculty members & staff.
- Rapidly changing technology and market demand
- State economy depreciation:  
State subsidy schemes promoting access to engineering education currently. If this is going to be stopped number of students who have access to engineering education will reduce, negatively effecting institute's intake.
- Changing learning practices of students.
- Student admission:  
Dilution of good student intake because of the large number of new colleges.

## EVALUATIVE REPORT OF INFORMATON TECHNOLOGY DEPARTMENT

1. Name of the department : **INFORMATION TECHNOLOGY**
2. Year of Establishment : 2000
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)  
UG : B.Tech. (IT)

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

S.No	Course	Offering Department
1	Electronic Devices & Circuits	Electrical & Communication Engineering
2	Data Communications	Electrical & Communication Engineering
3	Engineering Drawing	Mechanical Engineering

5. Annual/semester/choice based credit system(programme wise)  
B.Tech (IT.) – Semester based credit system-Electives in higher semesters

6. Participation of the department in the courses offered by other departments

Sl.No.	Programme	Courses offered by other departments
1	UG	Civil Engineering (Civil)
2		Electronics & Communication Engineering (ECE)
3		Electrical & Electronics Engineering (EEE)
4		Mechanical Engineering (Mech.)

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

Designation	Sanctioned	Filled
Professors	0	0
Associate Professors	04	04
Assistant Professors	10	10

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	Students guided for the last 4 years
-------	------	---------------	-------------	----------------	----------------------------	--------------------------------------

1	P.Srinivasa Rao	M.Tech	Associate Professor	CST	12	
2	V.Nagesh	Ph.D.	Associate Professor & HoD	CSE	13	
3	T.Pavan Kumar	M.Tech	Associate Professor	CSE	9	
4	K Sobha Rani	M.Tech	Associate Professor	SE	11	
5	D.Nagendra Kumar	M.Tech	Assistant Professor	IT	7	
6	V.Jyothi	M.Tech	Assistant Professor	CST	8	
7	Y.Home Prasanna Raju	M.Tech	Assistant Professor	CSE	8	
8	G.Satyanarayana Reddy	M.Tech	Assistant Professor	IT	6	
9	B.Anjanadevi	M.Tech	Assistant Professor	CSE	8	
10	M.Swarna	M.Tech	Assistant Professor	CSE	7	
11	R.Santhosh Kumar	M.Tech	Assistant Professor	CSE	7	
12	D Anthony Balaraju	M.Tech	Assistant Professor	CSE	0	
13	L Madhulatha	B.Tech	Teaching Assistant	IT	0	
14	T Aishwarya	B.Tech	Teaching Assistant	IT	0	

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 : B.Tech. - 1:12.29
14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Type of Staff	Sanctioned	Filled
Academic support staff(Technical)	03	03
Administrative staff	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

No.ofFaculty with D.Sc/ D.Litt	No.of Faculty with Ph.D	No.ofFaculty with M.Phil	No.ofFaculty with PG (M.Tech/MA/M.Com/ M.Sc/MBA/MCA)	No.offaculty with UG (B.Tech)
-	1	-	11	2

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received

- a) National: **03**  
 b) International: **NIL**

17. Departmental projects funded by DST-FIST;UGC,DBT,ICSSR,etc.and total grants received: **01**

18. Research Centre/facility recognized by the University: **NIL**

19. Publications:(Last four years)

a) Publication per faculty

S. No	Name of the Faculty	No of publications	Monographs	Chapter in books	Books edited	Books with ISBN/ISSNnumbers with details of publishers	Citation Index	SNIP (Source Normalized Impact per Person)	SJR (Scimago Journal Rank)	No. of Publications with Impact factor	No. of Publications With h-index
1	P.Srinivasa Rao	3									
2	V.Nagesh	18		1			1	3		1	2
3	T.Pavan Kumar	1									
4	K Sobha Rani	5									
5	D.Nagendra Kumar	0									
6	V.Jyothi	3									
7	Y.Home Prasanna	3									
8	G.Satyanarayana	1									
9	B.Anjanadevi	3									
10	M.Swarna	3									
11	R.Santhosh Kumar	11		1							
12	Anthony Balaraju	0									
13	L Madhulata	0									
14	T Aiswarya	0									

b) Number of papers published in peer reviewed journals(national/

international)by faculty and students: **51(faculty) + 338(students)** Last 4 years

- c) Number of publications listed in International Database(For Eg:Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory ,EBSCO host, etc.) **52**

- Monographs
  - Chapter in Books - **02**
- Books Edited
  - Books with ISBN/ISSN numbers with details of publishers Citation Index - **11**
- SNIP - **03**
- SJR
  - Impactfactor - **03**
- h-index - **02**

20. Areas of consultancy and income generated : **Software Development (Started in 2014 only)**

20. Faculty as members in

- a) National committees : NIL
- b) International Committees : NIL
- c) Editorial Boards : NIL

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/ programme.**100%**
- b) Percentage of students placed for projects in organizations outside the institution i.e .in Research laboratories/Industry/other agencies: **NIL**

23. Awards/Recognitions received by faculty and students

- a) Faculty : **NIL**
- b) Students:

Sl. No	Roll. No	Name of the Student	Program	Award/ Recognition
1	06331A1204	CHEKKA MADHURI	University Medal	Gold Medal

24. List of eminent academicians and scientists/visitors to the department

S No	Name of resource person and organization	Date/s
1	Mr.Venkat Rao, Assoc Prof, CS&SE, Andhra University	15/7/2009
2	Mr. Ankit Fadia,	24/7/2009
3	Dr D.R.Prasada Raju,Scientist-GAdviser Dept. of Science & Technology, New Delhi	30/7/2009
4	Mr.Sharath, SWECHA organization	19/2/2011

5	Ms.Prathima Amonkar, Microsoft Dream Spark Yatra	18/3/2011
6	Prof. P. S. Avadhani Andhra University	16/2/2012
7	Mr. Venkat Raju, CEO BOB TECHNOLOGIES, Bangalore	27/4/2012
8	Avadhani Prof. of CSE, AU, Waltair	17/2/2012
9	Dr. A. Louise Perkins (Professor University of Southern Mississippi, USA) Dr. Sumanth Yenduri (Assoc. Professor, University of Southern Mississippi, USA)	6/2/2012
10	Dr. S. Srinivas Kumar, Prof of ECE and Director (R&D) JNTU Kakinada	12/9/2012
11	Lecturer Sri Gopi Kumar Bolusu, CEO Sankhya Technologies, Visakhapatnam	15/9/2012
12	Mr. Y. Ramu and Mr. P. Vinod Reddy of Tata Consultancy Services (TCS)	16/8/2013

## 25. Seminars/Conferences/Workshops organized &amp; the source of funding

## a) National Workshops/Conferences Conducted

S. No.	Year	Schedule		Title of the Event	Source of Funding
		From	To		
1	2009	18/5/2009	30/5/2009	Machine Learning Tools and Applications	AICTE & MVGRCE
2	2012	4/10/2012	6/10/2012	Workshop on Android	MVGRCE
3	2012	8/10/2012	10/10/2012	Workshop on Cloud Computing	MVGRCE
4	2013	8/6/2013	12/6/2013	Faculty Development Program on Mobile Application Development	MVGRCE
5	2013	12/7/2013	12/7/2013	Seminar on Distributed Computing	MVGRCE
6	2013	26/8/2013	26/8/2013	Cloud Computing & Its Applications	MVGRCE
7	2014	30/01/2014	1/2/2014	Research Advances in Science and Engineering-2014	IEEE & MVGRCE

b) International Workshops/ Conferences Conducted: **01**

S. No.	Year	Schedule		Title of the Event	Source of Funding
		From	To		
1	2012	6/2/2012	7/2/2012	International Workshop on Intelligent Computing and Applications	CSI & MVGRCE

## 26. Student profile programme/course wise:

Year	Name of the Course/ program	Applications received	Selected(Number Admitted including Lateral Entry)	Enrolled		Pass%
				Male	Female	
2006-10	B.Tech (IT)	*	66	49	17	85.25%
2007-11		*	70	49	21	84.62%
2008-12		*	64	35	29	74.60%
2009-13		*	62	33	29	71.21%

\* Admissions are through EAMCET/PGECET counseling of AP State Govt.

## 27. Diversity of Students

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2009-10	B.Tech (IT)	100	0	0
2010-11		98.33	1.67	0
2011-12		100	0	0
2012-13		98.11	1.89	0
2013-14		98.15	1.85	0

## 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				
	2009-10	2010-11	2011-12	2012-13	2013-14
GATE	-	-	-	03	-
Civil services	-	-	-	-	-
Defense services	-	-	-	-	-
SLET	-	-	-	-	-
NET	-	-	-	-	-
GRE	-	8	5	3	-

Public Sectors	3	-	-	-	-
----------------	---	---	---	---	---

29. Student progression.

Student progression		Against % enrolled
UG to PG		4
PG to M.Phil.		0
PG to Ph.D.		0
Ph.D. to Post-Doctoral		0
Employed	•Campus selection	64
	•Other than campus recruitment	52
Entrepreneurship/Self-employment		4

30. Details of Infrastructural facilities

- a) **Library:**
- b) **Internet facilities for Staff & Students:**
- b) **Class rooms with ICT facility: 01**
- d) **Laboratories: 03**

31. Number of students receiving financial assistance from college, University, Government or other agencies

Agency	No.of students received financial assistance				
	2009-10	2010-11	2011-12	2012-13	2013-14
College	-	-	-	-	-
University	-	-	-	-	-
Government	98	96	101	103	91
Other agencies	-	-	-	-	-

32. Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts

S. No.	Name of the Event and Venue	Nature of Contest	Date(s)
1	AADHRITA 2012		06.01.2012 &
		Paper Presentations	07.01.2012
		Sports	Feb'2012
		Cultural	
		Poster Presentations	
	Debate		
2	IWICA-2012 International Workshop on Intelligent Computing and Applications	Lectures	06.01.2012 & 07.01.2012

3	AADHRITA 2012	Software Expo	Feb'2012
		Hardware Expo	
		Robotics	
		Workshops 1.Green Environment 2. Android 3.Robotics	
4	Workshop on Android	Hands on Experience	4 <sup>th</sup> – 6 <sup>th</sup> Oct. 2012
5	Workshop on Cloud Computing	Hands on Experience	8 <sup>th</sup> – 10 <sup>th</sup> Oct. 2012
6	Seminar on Parallel Computing	Seminar	12 <sup>th</sup> July 2013
7	Workshop on Cloud Computing & Its Applications	Workshop	26 <sup>th</sup> Aug. 2013
8	Scoprire '14	Paper Presentations	25 <sup>th</sup> – 26 <sup>th</sup> March 2014
		Sports	
		Cultural	
		Painting	
		Rangoli	
		LAN Gaming	

33. Teaching Methods Adopted to improve student learning

- LCD Projectors
- Online Teaching Materials
- Guest Lectures

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

FINANCIAL YEAR: 2013- 14				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Awareness Programme on Role of Youth in Village Development	17/04/13	17/04/13
2	NSS Unit	Awareness Programme on Adoption of Disabled children & Distributing required study material & Free lunch arrangements to Deaf & Dumb Children	17/06/13	17/06/13

3	NSS Unit	Donation of books to Poor Students	7/7/2013	7/7/2013
4	NSS Unit	Awareness Programme on Rural Education & Distribution of School Uniform to poor children	17/07/13	17/07/13
5	NSS Unit	Independence Day Celebrations	15/08/13	15/08/13
6	NSS Unit	Teachers Day Celebrations	5/9/2013	5/9/2013
7	NSS Unit	World Peace Pledge	21/09/13	21/09/13
8	NSS Unit	Awareness Programme on Adult Education	19/11/13	19/11/13
9	NSS Unit	Awareness Programme on Library & It's utilization	20/11/13	20/11/13
10	NSS Unit	Blood donation camp - 15th Birthday celebrations of Swami Vivekananda	10/1/2014	10/1/2014
11	NSS Unit	*NSS SPECIAL CAMP at Venkampeta & chittigunkalam	*27/1/2014	*1/2/2014
12	NSS Unit	Distribution of utensils & clothes - Chinaravada - Bhogapuram	21/3/14	21/3/14
13	NSS Unit	Blood donation camp - MVGR 17th Annual day celebrations -	28/3/14	28/3/14

FINANCIAL YEAR: 2012- 13				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Blood Donation Camp-I	02.05.12	02.05.12
2	NSS Unit	Awareness Program on Non-Conventional Energy Sources	23.05.12	23.05.12
3	NSS Unit	Awareness Program on Blood Donation	14.06.12	14.06.12
4	NSS Unit	Donation of Books to School Children	7.7.12	7.7.12

5	NSS Unit	Independence Day Celebrations	15-08-12	15-08-12
6	NSS Unit	Blood Donation Camp-II	25.8.12	25.8.12
7	NSS Unit	Teacher's day celebrations	5/9/2012	5/9/2012
8	NSS Unit	Engineers Day Celebrations Blood Donation Camp-III	15-09-12	15-09-12
9	NSS Unit	International Blood Donation Week	1.10.12	1.10.12
10	NSS Unit	Distributed 80 smokeless chulas for rural people with the help of NEDCAP at PEDADA village Denkada mandal	2.10.12	2.10.12
11	NSS Unit	Silent rally at Vizianagaram from Fort to Collector Office against "Women Social Issues"	02.01.13	02.01.13
12	NSS Unit	National Youth Day	12.01.13	12.01.13
13	NSS Unit	Trauma Care-Initial Counselling & Data collection, General Medical Check-up	4/2/2013	4/2/2013
		Self employment schemes for youth		
		Gynecology & Pediatrician Counselling	5/2/2013	5/2/2013
		Cleanliness For A Healthy World		
		Awareness Programmes against infected diseases (AIDS)		
		Literacy- Awareness, Women's education	6/2/2013	6/2/2013
		Videos presentation about Government schemes for rural people		
		Prevention of School drop outs, Improvement in village level education	7/2/2013	7/2/2013
		Plantation programme		
		Environmental awareness programme	8/2/2013	8/2/2013
Disaster Management & ComM Safety measures				
Awareness Programmes on Social & Ethical Values	9/2/2013	9/3/2013		
Legal Awareness-Right to information & consumerism				
14	NSS Unit	Republic day celebrations	26-01-13	26-01-13

15	NSS Unit	Blood Donation Camp - IV	2/3/2013	2/3/2013
----	----------	--------------------------	----------	----------

FINANCIAL YEAR: 2011- 12				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2011	5/7/2011
2	NSS Unit	Awareness program on rural women and child health	12/7/2011	12/7/2011
3	NSS Unit	Independence Day Celebrations	15-08-11	15-08-11
4	NSS Unit	Blood donation camp-I	25-08-11	25-08-11
5	NSS Unit	Teacher's day celebrations	5/9/2011	5/9/2011
6	NSS Unit	Blood donation camp-II	15-09-11	15-09-11
7	NSS Unit	Engineers day celebrations	15-09-11	15-09-11
8	NSS Unit	World peace pledge	21-09-11	21-09-11
9	NSS Unit	Essay Writing competitions	1/10/2011	1/10/2011
10	NSS Unit	Library week celebrations	19-11-11	19-11-11
11	NSS Unit	AIDS awareness rally	1/12/2011	1/12/2011
12	NSS Unit	Republic day celebrations	26-01-12	26-01-12
13	NSS Unit	Pulse polio immunization	29-02-12	29-02-12
14	NSS Unit	Blood donation camp-III	3/3/2012	3/3/2012
15	NSS Unit	Literacy Awareness Rally	2/3/2012	2/3/2012
		Awareness program on Environment & Conservation	2/3/2012	2/3/2012
		Medical Camp	3/3/2012	3/3/2012
		Literacy Awareness Program	3/3/2012	3/3/2012
		Medical Camp (Eye check Up)	4/3/2012	4/3/2012
		Legal Awareness Camp	4/3/2012	4/3/2012
		Medical Camp	5/3/2012	5/3/2012
		Awareness program on Pollution control & Blood donation	5/3/2012	5/3/2012
		Veterinary Camp	6/3/2012	6/3/2012
		Aids Awareness Program	7/3/2012	7/3/2012

		Plantation Program	8/3/2012	8/3/2012
--	--	--------------------	----------	----------

FINANCIAL YEAR: 2010- 11				
S. No	Unit name	Name of the program / activity	From	to
1	NSS Unit	Plantation program	5/7/2010	5/7/2010
2	NSS Unit	Independence Day Celebrations	15-08-10	15-08-10
3	NSS Unit	Blood Donation camp-I	25-08-10	25-08-10
4	NSS Unit	Teacher's day celebrations	5/9/2010	5/9/2010
5	NSS Unit	Engineers day Celebrations	15-09-10	15-09-10
6	NSS Unit	Blood Donation Camp-II	15-09-10	15-09-10
7	NSS Unit	Essay Writing Competitions	2/10/2010	2/10/2010
8	NSS Unit	Orientation Classes	7/10/2010	15-10-10
9	NSS Unit	AIDS Awareness Rally	1/10/2010	1/10/2010
10	NSS Unit	National Youth Day Celebrations	12/1/2011	12/1/2011
11	NSS Unit	Inauguration of a Student Organization (FYFP)	12/1/2011	12/1/2011
12	NSS Unit	Republic day Celebrations	26-01-11	26-01-11
13	NSS Unit	International Student Leadership Day	3/2/2011	3/2/2011
14	NSS Unit	Blood Donation Camp -III	3/3/2011	3/3/2011
15	NSS Unit	International Women's Day Celebrations	8/3/2011	8/3/2011

35. SWOC analysis of the department and Future plans

**SWOT Analysis for Department of Information Technology**

**Purpose:**

This document lays down the objective of Department Information Technology and then proceeds to do a SWOT Analysis with respect to the objective with the view to come up with an action plan matching core strengths of the department with opportunities available and to convert threats into opportunities by building

the required expertise & infrastructure.

**Objective:**

To be the institution of choice for students who want to pursue engineering course with a view to carve out a career as software professional. To realize this objective, the institution has to equip students with:

- An understanding of fundamentals, techniques and tools expected of prospective entry-level software professional.
- An engineering temperament constituting:
  - Strong analytical problem solving approach
  - Adaptability to new tools and techniques as they emerge
  - Rigorous approach to trouble-shooting
  - Empathy to client's needs and concerns
- An ability to effectively listen and understand, articulate and share ideas with others.
- An appreciation of righteousness and professionalism so they can fit in straight away.

If we can get our students to be equipped with the above, the chances of their being employed as an entry level software professional and their continued progress in such career would be bright and we would have realized the objective of our department.

a) **Strengths:**

Institutional Level:

- Pedigree of the society & promoters of the society the college is part in promoting the cause of education since 1857.
- Complete administrative autonomy for the college management under the guidance of governing body containing mostly academicians on policy matters.
- Stability of college management ensuring continuity & consistency
- Commitment of management to encourage & facilitate decentralization & participative management.
- Strong Infrastructure & Management commitment to upgrade it on an ongoing basis.
- Geographical location advantage – providing access to engineering education for a large rural population which being in close proximity to an urban area with a high industrial presence.
- Strong emphasis on rich & current material being made available (both internal & external generated) to students to supplement & enhance their class room training.
- Management support to promote faculty skill & qualification up-gradation.

Department Level:

- Elaborate & rich lab manuals (available in softcopy form from all Desktops in lab) to facilitate student's laboratory learning.
  - Self-learning center with subject content in audio & video form for student's learning.
  - Access for students to 3 different flavors of Unix (Solaris 8, AIX, Linux)
  - Faculty with significant industry experience available helping bridge the gap between curriculum & industry expectations.
- b) **Opportunities:**
- Institution Level:
- Industries looking for an ever increasing number of promising fresh engineering graduates
  - Ever increasing number of +2 level students aspiring to become engineers looking for institutions that could cater to their aspirations.
  - Government's pro-active policies to improve access to engineering education for economically & socially backward students increasing the number of students likely to enroll for engineering courses.
  - Established & well-endowed institutions are likely to have huge opportunities to leverage their expertise in knowledge dissemination to aid and assist budding institutions.
- Department Level:
- There is a huge scope for providing software & systems oriented consultancy to local small & individual oriented enterprises (who cannot afford hiring software servicing firms or the scope is too small for software firms to be interested) given the increase in use to computers to optimize operations.
  - The still untapped domestic market for software would in near future cause explosion in terms of need for quality software engineers.
- c) **Threats:**
- Institution Level:
- Reducing levels of preparedness of incoming students to tackle the learning challenges of an engineering course.
  - Increasing industry expectations in terms of skills needed and level from fresh engineering graduates.
  - Maintaining a competent faculty group in view of compensation differential between industry and academia.
  - Rapid changes & innovation in the specific engineering disciplines creating new challenges in terms of knowledge acquisition and techniques to optimally disseminate the same to students.
- Department Level:
- Short-term demand fluctuations on the negative side discouraging students from opting for an IT course.
  - The pace of change being very rapid in IT arena, there is significantly higher threat of students coming out of college not having the latest skills required to exploit opportunities.
  - Less number of competent software professionals being interested in teaching as a career, depriving the teaching arena of competent teachers.
- d) **Weaknesses:**
- Institutional Level:

Teaching – Learning Practices:

- The focus of teaching-learning practice is too much on examinations and too less on actual learning.
- The current teaching-learning practice does not have a systematic and reproducible process to help students improve on their communication ability/ability to articulate in incremental mode, gradually reaching the required level of sophistication.
- Though students are made to analyze an appreciate concepts & specific programs through the course, we do not a systematic process to cultivate a general analytical problem solving approach starting from vacuum that would with reasonable probability lead to a definitive answer or solution given their awareness of concepts, tools, and techniques.
- Though we make students use latest tools and techniques, we have not been successful in convincing them about the need to be tool & technique independent at a problem solving level to retain the power to translate a given solution to any tool as deemed most suitable at a given time and in a given situation.
- Teaching is too dependent on class-room teacher directed instructional practice, making everything teacher dependent and leaving little scope for consistency.

Infrastructural:

- Majority of students being day-scholars rely on college provided shared transport reducing the usage of college infrastructure beyond college working hours.
- Operational Infrastructure missing key technical advancements that could reduce paper work improve operating efficiency and above all increase transparency.
  - Too much of paper work.
  - No centralized soft copy storage causing massive wastage of space while inhibiting data sharing.
  - Centralized data-warehouse missing leading to lot of inefficiency in reporting on basic data elements or reinventing the wheel each time some data is needed.

Content-Oriented:

- No proper mechanism to improve learning material on a continuous basis factoring in the new changes leading to stale material at times.
- Clear owner-ship, responsibility & accountability not defined within the sphere of content development leading to duplication of effort & lack of rigor and completeness.
- Faculty & Students are not geared enough to understand the full essence of utility of content driven learning & tend to rely too much on direct instructional teaching learning that has its limitations.

Man-power utilization:

- Lack of proper translation mechanisms to convert high level decisions to concrete action plans means lot of man-power time get wasted and underutilized.
- No clear understanding of how work outside of direct curricular sphere

can help student learning and consequently some of the work here outside of curriculum does not translate into benefit to institution or students and consequently deemed time wasted or under-utilized in so far as institution is concerned.

Leveraging expertise:

- No clear precedent or direction of approach to consulting that could lead up to lot of benefit to students, both quantitatively & qualitatively. Though expertise is available, we are not able to utilize it to benefit our internal stake holders and external clients in leveraging our skill & knowledge.
- Intellectual consulting & translating into tangible & executable projects that can benefit small clients at low cost missing.

Building expertise:

- No internal mechanisms to share & improve knowledge among faculty.
- No skills tracking, skill need analysis and linking up to training need identification.

Metrics:

- No quantifiable metrics or procedures to measure level of utilization of all resources financial, equipment or human resources.
- Possibly making decisions based on individual opinions and preferences & less on systematic evaluation of need and assessment of potential utilization.

Department Level:

- Faculty knowledge acquisition not up to pace with the rate of changes in the industry.
- Department not utilizing the numerous open-source tools available for use that could enhance student learning.
- Do not have a centralized systems administration framework making systems administration more painful than it actually is.
- Do not have a sufficiently high end network storage device that could than act as a data store for RDBMS & even user partitions.
- Department lab executions are too single-platform dependent (Windows based) not allowing students to get varied exposure on different platforms.

**High level Action Plan based on SWOT Analysis:**

**Faculty-oriented:**

**Capability Building:**

A strong procedure for a sustainable faculty skill up-gradation on all aspects leading up to effective translation of the same to the large student community is one of the most significant aspects in helping push our institute to the next level in our quest for excellence. This can be achieved, by setting up a faculty college that will have subject experts in the following areas (drawn from industry & academics) dedicated to do the following:

- Well-defined process to define required combined skill set for faculty group, assessing current skill set and defining a mapping strategy to reach the required level (To be done in every 6-month window) and metrics to measure previous period effectiveness. [Executing the mapping strategy

would we believe in the first 1 year to take about organizing on an average 5-8 targeted training programs per faculty and 2-3 programs in every subsequent year]

- Well-defined faculty induction procedure including basic induction involving institute procedures, pedagogical practices & subject level for new faculty coming in based on the assessment of their current level at recruitment stage (A 6 month induction for faculty with less than 2 years of relevant teaching experience).
- Induction Procedure would have to involve doing projects in the areas of interest and demonstrating their understanding and also imbibing the principle of being involved in continuous project work leading up to them directing students in their future assignments as project supervisors and guides.
- A well defined process for assessing all existing faculty & in-coming faculty on their areas of interest and motivating them towards pursuing the areas further by leading them towards academic research in their area of choice. The process should facilitate strong guidance to faculty in their area of choice.
- Conducting workshops that would facilitate our faculty getting together with other faculty members from other institutions.
- Planning supplementary programs to the curriculum to bridge the gap between the curriculum at the time and more dynamic industry expectations on a continuous basis.

Output-oriented reward schemes:

- Incentives for faculty that play a role in project development either for internal consumption by the institute or to be given to industries on self-help groups (free of cost or on a per-unit charge basis)
- Incentives for faculty on publications in national & inter-national journals and conferences to promote output oriented results.

**Student-oriented:**

Entry Level:

Given that we are largely catering to rural and semi urban students (we are very proud to state it), we realize we need to ramp up the level of students on core science subjects and language skills for them to be able to utilize the full extent of teaching-learning process during their course in the institute. To cater to this need, and also to increase awareness towards pre-requisites of engineering education in the neighborhood, we believe the following things need to be done:

- Use the time between April-May (when student finish their +2) and September-October (When engineering course admissions happen) each year, by conducting awareness programs & bridge programs on the following to benefit the students in the neighborhood. Programs could be in the areas of:
  - Language Skills
  - Basic Sciences bridge courses to bridge the knowledge gaps in their understanding & engineering pre-requisites.

- Awareness on Engineering education and different disciplines thereof, prospects, and planning needed to be successful through the course.

We realize this process would solve the purpose of helping students make a judicious decision on the program to choose, educate them on what our institute has to offer & also what to look for in institutions when they seek admissions, and also promote the brand name of our institution attracting the best students (the secondary objective).

During the course:

We believe that the institute has to do a lot more to make the students go through serious application oriented/practical training as a part of the course to make them both prepared and confident to meet the needs and demands of the industry/sphere they aspire to pursue after the course. To that end, we need to do the following in the institute:

- Have a sustained parallel application/project oriented activity continually running in step with the regular curriculum that would provide students under the guidance of well trained faculty an opportunity to develop project execution capability & trouble shooting capability so very essential for them.
- Have effective earn-while-they-learn schemes where they could make some money out of their work in projects while also learning.
- Have subsidized access to required training (through add-on courses & workshops) & subsequent certification examinations on industry standard and widely used tools and technologies offered by industry leaders that demonstrate their exposure to the firms that need such skills.
- Have state-of-the-art laboratories with sufficient computing resources exclusively dedicated to these kinds of project development activities.

**Academic Process Oriented:**

The institute realizes that we are currently bound by the time barrier of 9:00 to 4:00 in our teaching learning delivery and that to some extent impairs our ability to benefit the student in all possible ways. To circumvent this and provide a platform to cross this time barrier and extend learning to any-time, any-where plane, we need to do the following.

- A virtual college platform providing an easy way for content uploading, content review and content dissemination which will allow content to be accessible by students & faculty from anywhere. This platform could be used to make both internally generated and tailored-to-our-needs external content accessible to student any-time any-where.
- Access to students to software & simulation packages not in the curriculum but nonetheless useful to the students as a part of their learning (both open-source and licensed).

**Operational Efficiency Oriented:**

The institution realizes that utilizing the latest technologies advances in improving our day-to-day operational efficiency will help us save a lot of time and energy

that can then be deployed to enhance the learning experience of the students. To this end, the institute needs the following:

- Exhaustive management Information Systems that can give what anyone asks as per well-defined authorization leading up to making the institute a paper-less organization.
- Public relations office adequately staffed to cater to the information needs of our primary stake-holders, the parents of the students in our college answering information related queries.
- Centralized systems administration & soft-storage management that reduces redundancy and increases integrity of our data and availability of the data along with making it more scalable.