

Self Study Report (SSR) for NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) Accreditation of



VARDHAMAN COLLEGE OF ENGINEERING

Shamshabad - 501 218, Hyderabad, Andhra Pradesh, India

Mobile: 9550080055, 9502653333

Landline: 08413 - 253201

Fax: 08413 - 253482

E-mail: principal@vardhaman.org

Web: www.vardhaman.org

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

December 2013



VARDHAMAN COLLEGE OF ENGINEERING

(Autonomous)

Shamshabad, Hyderabad – 501 218

Dr. J. V. R. Ravindra., Ph.D
Principal

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) is true to the best of my knowledge.

This Self-Study Report (SSR) is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provide in this SSR during the peer team visit.

Place: Hyderabad

Date: 20 December, 2013

Dr. J. V. R. Ravindra
PRINCIPAL

CONTENTS				
S. No.				Page No.
A	Preface			1
B	Executive Summary - The SWOC Analysis of the Institution			2-7
C	Profile of the Institution			8-15
D	Criteria-wise Analytical Report			
	a	Criterion I: Curricular Aspects		
		1.1	Curriculum Planning and Implementation	16
		1.2	Academic Flexibility	21
		1.3	Curriculum Enrichment	37
		1.4	Feedback System	40
	b	Criterion II: Teaching – Learning and Evaluation		
		2.1	Student Enrolment and Profile	42
		2.2	Catering to Diverse Needs of Students	48
		2.3	Teaching -Learning Process	52
		2.4	Teacher Quality	59
		2.5	Evaluation Process and Reforms	66
		2.6	Student Performance and Learning Outcomes	76
	c	Criterion III: Research, Consultancy and Extension		
		3.1	Promotion of Research	82
		3.2	Resource Mobilization for Research	92
		3.3	Research Facilities	96
		3.4	Research Publications and Awards	101
		3.5	Consultancy	103
		3.6	Extension Activities and Institutional Social Responsibility (ISR)	107
		3.7	Collaboration	111
	d	Criterion IV: Infrastructure and Learning Resources		
		4.1	Physical Facilities	117
		4.2	Library as a Learning Resource	129
		4.3	IT Infrastructure	134
		4.4	Maintenance of Campus Facilities	136

	e	Criterion V: Student Support and Progression		
		5.1	Student Mentoring and Support	139
		5.2	Student Progression	152
		5.3	Student Participation and Activities	155
	f	Criterion VI: Governance, Leadership and Management		
		6.1	Institutional Vision and Leadership	163
		6.2	Strategy Development and Deployment	168
		6.3	Faculty Empowerment Strategies	176
		6.4	Financial Management and Resource Mobilization	178
		6.5	Internal Quality Assurance System (IQAS)	179
	g	Criterion VII: Innovations and Best Practices		
		7.1	Environment Consciousness	184
		7.2	Innovations	185
		7.3	Best Practices	187
E	Evaluative Report of the Departments			
	a	Computer Science Engineering (CSE)		191
	b	Information Technology (IT)		211
	c	Electronics & Communication Engineering (ECE)		227
	d	Electrical and Electronics Engineering (EEE)		246
	e	Mechanical Engineering (ME)		261
	f	Aeronautical Engineering (AE)		279
	g	Civil Engineering (CE)		287
	h	Master of Business Administration (MBA)		298
F	Annexure			
	a	UGC 2(f) & 12(B) Recognition Letter		304
	b	AICTE First and Latest Approval Letters		305
	c	JNTUH Permanent Affiliation Letter		310
	d	JNTUH Autonomous Recognition Letter		312

Preface

The Vardhaman College of Engineering was established in 1999, sponsored by Vardhaman Educational Society. Vardhaman College of Engineering (VCE) is recognized by AICTE approved by Government of Andhra Pradesh and permanently affiliated to Jawaharlal Nehru Technology Hyderabad.

The Jawaharlal Nehru Technological University, Hyderabad has awarded "autonomous status" to the Vardhaman College of Engineering from the academic year 2011 - 2012 onwards. All the 7 UG Courses - CSE, IT, ECE, EEE, Mechanical, Aeronautical and Civil and 10 PG Courses - M.Tech (CSE), M.Tech (SE), M.Tech (PEED), M.Tech (DECS), M.Tech (WMC), M.Tech (Embedded Systems), M.Tech (Engg. Design), M.Tech (Structural Engineering), MBA and MCA are under autonomous status.

The Vardhaman College of Engineering is recognized under section 2 (f) & 12 (B) of the UGC Act, 1956 vide letter no F. No. 8-215/2012 (CPP-I/C) dated 4 September, 2012 by University Grants Commission, New Delhi. Now the college is under the head "Non-Government Self Financed" Colleges teaching upto Master's degree to make it eligible to receive central assistance. The college would also be eligible to get grant for all UGC schemes related to teachers and students.

VCE was established with a vision aim at inculcating the spirit of high ambitions, healthy attitudes, discipline and multi-dimensional excellence in the students and strive to mould them to scale new heights and get their mental horizons enlarged through value-based technical education and congenial study environment.

The College was established in 1999 with an initial intake of 180 students in 3 branches. Currently the student's intake is 1236 with 7 UG programs and 10 PG programs.

VCE is pleased to submit Self Study Report (SSR) of our Institution for accreditation. VCE presents itself for quality inspection to give a silver lining to the course and is a curtain raiser for student's career making by getting accredited. Hence we will have status to serve the stake holders better in future.

The SSR has been prepared as per the norms of National Assessment and Accreditation Council (NAAC).

Executive Summary

Vardhaman College of Engineering was established in 1999 and is permanently affiliated to Jawaharlal Nehru Technological University Hyderabad since 2011. VCE has Academic Autonomous status granted by JNTUH, Hyderabad since 2011. The Vision and Mission of the College directed to achieve emancipate and empower through education for students.

The prime objective of Vardhaman College is to update and modernize the quality of professional education. Its aim is to employ innovative teaching methods which carry an emphasis on fast changing technological trends. This is to integrate classroom learning with actual work experience in the industry concerned or in a related professional field. The college aims to encourage students from the first year B.Tech itself, to identify suitable work areas and to execute projects of their own choice and interest. The teaching-learning process is carried-out through the use of overhead and LCD projectors. Vardhaman boosts facilities such as an extensive computer centre, library, advanced lab for communication skills, internet centre and spacious seminar halls and Electronic classrooms.

VCE provides full-fledged and marvelous infrastructure. It is a wholly self-contained campus comprising of everything that students on campus would ever require are housed in a total building space of 3,81,000 sft.

VCE has adequate staff recruited from academia and industry. VCE has well established selection procedures and rules to draw the human resources. The college is strengthened with the awarded and recognition by AICTE, permanent affiliation and Autonomous status, UGC 2(f) and 12(B). Top careers 360 magazine have considered Vardhaman College of Engineering as one of the leading colleges with AA++ Rating.

VCE achieve its objectives through its dedicated teams like Governing Body, Academic Council, Deans of R & D, ACM, UG Courses, PG Courses, Student Activities, Computer Sciences, Electrical Sciences and Basic Sciences.

The Centre for Research & Consultancy (CRC) was established to improve the Institute-Industry interaction and provide need based technology to existing industries. It is established with a seed grant of Rs. 10 lakhs to carry out basic research in various branches of Engineering and Sciences. R & D center interacts with different funding agencies, identifies their problems and solves them in stipulated time. Since its inception, the centre is carrying out major consultancy projects and many minor projects and testing work. The centre has procured a number of equipments / instruments required for consultancy work. It has also contributed to seminars / workshops and research oriented student's projects. Its aim is to bridge the gap between Industry and Institute and provide the necessary technical support to industries to solve their problems.

Library and Information centre, is one of the best engineering college libraries in the state. The institute has a spacious CENTRAL LIBRARY in an independent building with an area of 30,000 sft. spread over two floors. It has the collection of 53,722 volumes of books and 9851 titles. It has subscribed major technical journals including IEEE, Springer, Elsevier, ASME, ASTM, ASCE, J-GATE, Mc GRAW HILL etc.

In Library, Digital library was established with 40 systems to access E-journals, E-books, E-learning, Multimedia Center and photocopying are made available for the convenience of the users.

Training and Placement gives a silver lining to the course and is a curtain raiser for student's career making. We are focused towards providing students with the best and nothing less to help our students build strong careers.

VCE, being a fine blend of educationists and entrepreneurs has superior relations with corporate houses and other prestigious institutions. Our placement team works round the year to ensure successful and respectable placements with esteemed organizations. The College has accredited by TATA Consultancy Services.

Vardhaman College of Engineering is tied with Professional Society Activities like ACM Students Chapter, IEEE Student Chapter and ISTE Chapter for quality education and financial support. The chapter organizes talks and workshops on different subjects by speakers who are well known in their area. These talks give students opportunities to learn about advanced research subjects. Apart from these, some non-technical activities are also organized. The main perspective of IEEE student branch at VCE is to aware students regarding various facilities and student development programs provided by IEEE. We encourage the networking of undergraduate and postgraduate students with industry and academics. Every year ISTE Chapter VCE conducts various events such as expert lectures, workshops, seminars, Industrial visits, etc. to assist staff and student for updating their technical knowledge.

VCE facilitates Auditorium, Cafeteria, Computer Center, Transport and ATM. Vardhaman's world class air-conditioned auditorium has a seating capacity of 600. Another open auditorium with a seating capacity of 2000 for large gatherings is also available. Hygienic and Nutritive food at subsidized rates is served in the cafeteria. 33 Buses are available from various routes to the college for Students and Staff.

Our students have unrestricted, round-the-clock access to air-conditioned computer laboratories equipped with structured fibre optic and UTP cabling network and other relevant software with Wifi facility. The students are privileged to have access to our state-of-the-art computer laboratories, which are home to over 1144 computers (DELL, LENOVA & HP make), 12 servers, 104 printers and over 82 laptops (DELL, SAMSUNG and HP make) with a dedicated network. The Overall ratio of computers to students is nearly more than the number recommended.

SWOC Analysis

Strengths of the College:

- S1. 7 UG and 9 PG programmes are offered out of which 4 core Engineering UG programmes are accredited by NBA for 3 Years
- S2. Located in Hygienic environment away from residential and commercial areas
- S3. Good civil infrastructure for classrooms, labs, library, lecture halls, seminar rooms, and administrative blocks
- S4. Reputed among top 350 engineering colleges affiliated with JNTUH and preferred by students aspiring to join engineering
- S5. Qualified and well educated management with broad vision for academic excellence.
- S6. Robust financial base with all student seats filled
- S7. Provides friendly work environment
- S8. Committed faculty with good retention ratio (40%) and team spirit
- S9. Research capable faculty available in R&D centre sufficient fund allocation
- S10. Excellent Training & Placement centre with TCS and Oracle industries accreditation
- S11. Well established labs with modern equipment and facilities
- S12. Excellent library with digital facility and e- journals
- S13. Available of Wi-Fi enabled networking and e- classrooms
- S14. Highly disciplined Students
- S15. Good Proctoral (Teacher- Protégé) relation for teaching- learning process
- S16. Regular counseling and remedial classes for weak students
- S17. Pay scales above standard AICTE norms and paid timely
- S18. Alumni- Institute relationship exists
- S19. Consortium member of Indo-US Collaboration for Engineering Education (IUCEE)

WEAKNESSES OF THE COLLEGE:

- W1. Shortage of qualified senior faculty with PhD, industrial research and academic experience
- W2. Inability to reform Curricula as per the current technological developments and industry requirement
- W3. Inadequate and delayed fund released by State government to educational institutions
- W4. No significant industry and Institution initiations
- W5. Industrial visits by students for practical training due to lack of improper system
- W6. Training on soft skills for students is inadequate.
- W8. Support staff and non teaching staff needs training

OPPORTUNITIES OF THE COLLEGE:

- O1. Engineering consultancy to local industry
- O2. Faculty pursuit PhDs in local universities without academic and family disruption
- O3. Location advantage for Institute- industry tie-ups for project work, consultancy, training and placement
- O4. Develop technical and academic expertise in new fields
- O5. R & D projects Industry Sponsored
- O6. Training hub for other institutes on latest subjects
- O7. Exchange programmes for faculty and students with other institutes
- O8. Institutional collaboration for academic and Industrial research at national and international level

CHALLENGES OF THE COLLEGE:

- C1. Mushrooming engineering colleges
- C2. Inability to meet industry demand and market challenge
- C3. Entry of foreign universities
- C4. Diminishing availability of academicians to maintain faculty quality
- C5. Present Political situation in the State

Identification and Analysis of Strengths:

One of the great strengths of the college is its UG programme. All the eligible UG programmes of the college are accredited. The college is one among the reputed colleges affiliated to JNTUH, Hyderabad. The pass percentage is very high with a few securing ranks at the University level.

The college has well equipped laboratories, library with e-journals; Wi-Fi enabled classrooms etc. to provide necessary support for better academic progress. The college already has UG and PG programmes dealt by qualified personnel. As a result, the college will be able to support new PG programmes in the related fields using substantial existing infrastructure and resources that include a few existing faculty who can be trained and some additional resources and a little extra manpower.

Placement of students is well organized with companies like TCS, Oracle, CSC and Tech Mahindra accrediting the institution. The current structure can be used as a base to further strengthen placements.

The college has filled up the entire faculty positions as per AICTE standards. It is a strong indicator of the popularity and positive atmosphere of the college among the affiliated colleges of JNTU. Further, a good retention ratio among faculty shows job satisfaction. There is a cordial Proctoral teacher-student relationship in the college strengthening the learning outcome.

The college takes affirmative action for students weak at academics. It has in place a system for counseling and remedial classes for weak students. The college shall further strengthen this activity by identifying academically sound, good scoring senior students from seventh and eighth semester / PG students willing to accept teaching fellowships to support weak students during extra hours.

Assessment of Weaknesses and vanquishing them:

One of the major inadequacies brought out by SWOT analysis is the shortage of faculty members with Ph.D resulting in decline of adequate research output and guidance to young faculty members. To create a research atmosphere, the college shall have an R&D cell in each department and the cell would invite mentors to guide faculty members and provide incentives for research.

Every college must interact with other Institutes and industry. Industrial interaction is lacking in our college. To overcome this, the college plans to conduct industrial trainings and industrial visits to benefit students and facilitate for joint research. The college also has plans to organise one industrial exhibition per year at its premises to highlight research facilities and expertise available. The college shall invite professionals from the industry as visiting faculty. Training for technical and support staff in their relevant areas and on attitudinal change will also be included in the training schedule and concerned persons will be deputed.

Though the college has substantial library books, journals and learning resources with internet facilities these are not harnessed to their potential due to non flexibility in class room teaching. We realize that a better learning ambiance has to be created. Teachers would have to plan utilization of these resources so that students can learn well beyond the syllabus about emerging trends in technology.

External Opportunities which can be seized by the college:

The college plans to encourage faculty members to enroll for PG and Ph.D. programmes to upgrade their qualification and in turn become guides to junior faculty members. Thus, a self sustaining system of research and skill up gradation will ultimately emerge.

The college already has 8 PG programmes in engineering discipline with an intake varying from 18 to 36 students in each. All the seats are filled shows a growing interest of students in PG programmes in Engineering. New PG programmes will be identified based on the industrial policy of the State through brainstorming sessions (SWOT) with faculty and staff.

Using the opportunity of being located in a state with many industries and universities, the college has to acquire tie up with industries and universities for prompting various R & D, consultancy projects and continuing education.

Assessment of Challenges:

There is a Challenge posed by mushrooming engineering colleges and foreign universities in the local environment. The mushrooming engineering colleges are leading to lack of quality among the students whereas; the foreign universities are attracting good students and faculty leading to scarcity of good students as well as faculty.

Opportunities to faculty to upgrade themselves, incentives for research, strong placement for students and support by management for academic endeavor will go a long way in mitigating the threats.

Profile of the Affiliated /Constituent College

1. Name and address of the college:

Name: **VARDHAMAN COLLEGE OF ENGINEERING**

Address: Kacharam, Shamshabad, Hyderabad

City: Hyderabad Pin: 501218

State: Andhra Pradesh

Website: www.vardhaman.org

2. For communication:

Office:

Name	Tel. No with Area/ STD code	Mobile No	Fax No.	E-mail
Chairman: Dr. T. Vijender Reddy	08413-253201	9391048844	08413-253482	chairman@vardhaman.org
Principal: Dr. JVR. Ravindra	08413-253501	9502653333	08413-253482	principal@vardhaman.org

3. Status of the of Institution :

Affiliated College

Constituent College

Any other (specify)

√

4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. **Co-education**

√

b. By shift

i. **Regular**

ii. Day

iii. Evening

√

5. Is it a recognized minority institution?

Yes

No

√

6. Source of funding:

Government

Grant-in-aid

Self-financing

Any other

√

7. a. Date of establishment of the college: **05, August 1999**

b. University to which the college is affiliated /or which governs the college

Jawaharlal Nehru Technological University, Hyderabad

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
2 (f)	04/09/2012	----
12 (B)	04/09/2012	----

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

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

Under Section/clause	Recognition/Approval details Institution/Department/ Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
AICTE	First Approval	28 December, 1999	One year	There is system of AICTE permanent Approval , AICTE approve the Institutions Annually
	Latest Approval	19 March, 2013	One year	
NBA	Applied for Re-accreditation			

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

Yes ☒ No ☐

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

Yes ☒ No ☐

9. Is the college recognized

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

Yes ☐ ☒

b. for its performance by any other governmental agency?

Yes ☒ No ☐

Accreditation once from National Board of Accreditation (NBA). New Delhi

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

Location *	Rural
Campus area in sq. mts.	59084.1
Built up area in sq. mts.	36812.18

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

- Auditorium/seminar complex with infrastructural facilities

☒

- Sports facilities

* Play Ground Yes ☒

* Swimming pool No ☐

* Gymnasium Yes ☒

- Hostel

* Boys' hostel Yes ☒

i. Number of hostels : ONE

ii. Number of inmates : 260

iii. Facilities (mention available facilities) 82 spacious rooms with furniture, bed, attached bath room, fan, TV, common room for Indoor games , Reading room, internet with WI-FI facility news paper.

* Girls' hostel Yes ☒

i. Number of hostels : ONE

ii. Number of inmates : 146

iii. Facilities (mention available facilities) 82 Spacious Rooms with attached bathroom, bed, fan, TV, internet Wifi facility, common room for Indoor games ,Reading room, news paper.

- * Working women's hostel **NO**

i. Number of inmates

ii. Facilities (mention available facilities)

- Residential facilities for Teaching and Non-Teaching staff

There is no residential facility for staff and non teaching staff but Guest house is available.

☒

- Cafeteria -- Yes

- Health centre – Yes √

Facilities Available:

Number of Medical practitioners : 1

Number of nursing staff : 1

Medical facility within the Institute/College : **Dispensary**

A Dispensary with modern equipment and facilities to cater to the general medical needs of the students, staff and faculty is available on the campus. In case of necessity medical facilities are available at Trident Multi Specialty Hospital, Shamshabad and Indira Super Specialty Hospital, Shamshabad. At a distance of 20 km advanced medical facilities are available at Osmania Government Medical College, Hyderabad.

Availability of first-aid unit:

No. of ambulances within the college : 1

Facility in ambulances : **First aid and other Emergency Equipment**

Response-time in calling ambulance services from outside : **15 minutes**

Facilities like banking, post office, book shops : **YES**

- ❖ Bank/ATM : YES
- ❖ Postal/Courier : YES
- ❖ Books Shop/Stationary : YES
- ❖ Transport Facilities for Students and Staff : YES
- ❖ Animal house : N/A
- ❖ Biological waste disposal : YES
- ❖ Generator or Power Back up : YES
- ❖ Solid waste management facility : YES
- ❖ Waste water management : YES
- ❖ Water harvesting : YES

12. Details of programmes offered by the college

S. No.	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned Student Strength	Number of students admitted
Under Graduate Programs						
1	B.Tech. (CSE)	4yrs	10+2	English	240	237
2	B.Tech. (ECE)	4yrs	10+2	English	240	232
3	B.Tech. (IT)	4yrs	10+2	English	120	102
4	B.Tech. (EEE)	4yrs	10+2	English	90	86
5	B.Tech. (ME)	4yrs	10+2	English	120	121
6	B.Tech. (CIVIL)	4yrs	10+2	English	60	59
7	B.Tech. (AERO)	4yrs	10+2	English	60	45

Post Graduate Programs						
1	M.Tech. (CSE)	2yrs	B.Tech./M.Sc/ MCA	English	36	23
2	M.Tech. (DECS)	2yrs	B.Tech.	English	36	22
3	M.Tech. (SE)	2yrs	B.Tech.	English	18	12
4	M. Tech. (PE&ED)	2yrs	B.Tech.	English	18	14
5	M. Tech. (WMC)	2yrs	B.Tech.	English	18	12
6	M. Tech. (ES)	2yrs	B.Tech.	English	18	14
7	M. Tech. (ED)	2yrs	B.Tech.	English	18	12
8	M. Tech. (STE)	2yrs	B.Tech.	English	18	12
9	MBA	2yrs	Any Degree	English	60	34
10	MCA	3yrs	Any Degree	English	60	00

13. Does the college offer self-financed Programmes?

Yes ☒ No ☐

If yes, how many?

1. B. Tech
2. M. Tech
3. MBA
4. MCA

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

Yes	☒	No	☐	Number	06
-----	-------------------------------------	----	--------------------------	--------	----

S. No	Under Graduate/ Post Graduate	Course	Year of Introduced
1	M. Tech	Structural Engineering	2013
2	M. Tech	Engineering Design	2012
3	M. Tech	Embedded Systems	2012
4	M. Tech	Software Engineering	2009
5	M. Tech	DECS	2009
6	B. Tech	Civil Engineering	2009

15. List the departments:

Particulars	UG	PG	Research
Science	07	09	NIL
Arts	NIL	01	NIL
Commerce	NIL	NIL	NIL
Any Other not covered above	NIL	NIL	NIL

The Departments are:

1. Computer Science and Engineering
2. Information Technology
3. Electronics and Communication Engineering
4. Electrical and Electronics Engineering
5. Mechanical Engineering
6. Aeronautical Engineering
7. Civil Engineering
8. Computer Science and Engineering (PG)

9. Software Engineering (PG)
10. Digital Electronics and Communication Systems (PG)
11. Wireless and Mobile Communications (PG)
12. Power Electronics and Electric Drives (PG)
13. Embedded Systems (PG)
14. Engineering Design (PG)
15. Structural Engineering (PG)
16. Master of Business Administration (PG)

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

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

16

17. Number of Programmes with

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

16

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Positions	Teaching faculty						Technical staff		Non-teaching staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government Recruited	--	--	--	--	--	--	--	--	--	--
Yet to recruit	--	--	--	--	--	--	--	--	--	--
Sanctioned by the Management/society or other authorized bodies Recruited	27	02	29	14	100	67	54	09	84	30
Yet to recruit	--	--	--	--	--	--	--	--	--	--

*M - Male *F - Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	24	01	--	--	--	--	--
M.Phil.	--	--	02	01	--	--	--
PG	03	01	27	13	90	66	--
UG	--	--	--	--	10	01	--
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--

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

14

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

Categories	Year 1		Year 2		Year 3		Year 4	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	60	29	54	30	50	28	52	24
ST	21	10	18	11	27	07	19	04
OBC	219	92	229	87	204	93	193	77
General	272	96	222	82	175	83	121	57
Others								2746

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

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	2736	228	NA	NA	2964
Students from other states of India	10	--	--	--	10
NRI students	--	--	--	--	NIL
Foreign students	--	--	--	--	
Total	2746	228	--	--	2974

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

UG

<1

PG

NIL

26. Unit Cost of Education

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

(a) including the salary component

Rs. 54035/-

(b) excluding the salary component

Rs. 25180/-

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

Yes ☐ No ☒

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

S. No	Programme	Course	Teacher-student Ratio
1.	B. Tech	Electronics and Communication Engineering	1:15
		Computer Science and Engineering	1:15
		Information Technology	1:15
		Electrical and Electronics Engineering	1:15
		Mechanical Engineering	1:15
		Aeronautical Engineering	1:15
		Civil Engineering	1:15
2.	M. Tech	M. Tech. (Wireless & Mobile Communications)	1:12
		M. Tech. (Computer Science and Engineering)	1:12
		M. Tech. (Power Electronics & Electrical Drives)	1:12
		M. Tech. (Digital Electronics & Communication Systems)	1:12
		M. Tech. (Software Engineering)	1:12
		M. Tech. (Engineering Design)	1:12
		M. Tech. (Embedded Systems)	1:12
		M. Tech. (Structural Engineering)	1:12
3.	MBA	Master of Business Administration	1:15
4.	MCA	Master of Computer Applications	1:15

29. Is the college applying for

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

Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)

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

N/A

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

274

32. Number of teaching days during the last academic year

184

(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

The IQAC cell is established in 12-12-2009

34. Details regarding submission of Annual Quality Assurance Reports N/A

35. Any other relevant data (not covered above) the college would like to include. NO

CRITERION I

CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

The vision, mission and objectives of Vardhaman College of Engineering (VCE), are stated as follows:

VISION

We, at the helm of Vardhaman College of Engineering, aim at inculcating the spirit of high ambitions, healthy attitudes, discipline and multi-dimensional excellence in the students and strive to mould them to scale new heights and get their mental horizons enlarged through value-based technical education and congenial study environment.

MISSION

We propose to sharpen the inherent professional skills of our students to enable them compete in the complex world through our newly evolved quality management system and dedicated staff. The practical oriented education and the research tie-up with industries we provide, tend to promote the intellectual pursuits of the students.

OBJECTIVES

- Develop a campus which promotes higher learning and research
- Recruit and retain a diverse faculty of outstanding teacher-scholars with principles and discipline
- Promote industry – College interactions by conducting seminars
- Expose students to leading Industries and Corporate Houses
- Foster a harmonious, cordial and tripartite relationship among the management, faculty and students for their respective growth and for establishing a congenial academic environment in the College.

The vision, mission and objectives of the college are engraved and displayed in important locations within the premises which help in communication of the same to the stakeholders.

The mission and goals of the College are also communicated to the students and other stakeholders by means of the institution's website, admission brochure, quality manuals and placement brochures.

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

Vardhaman College of Engineering offers B.Tech, M.Tech, MBA and MCA courses approved by All India Council for Technical Education, New Delhi (AICTE) and are permanently affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH). The syllabus and the overall guidelines are laid down by the Board of Studies (BOS) with one subject expert from the University and two more experts from the other universities nominated by Academic Council.

- Subject preference and allotment
- Online Activity Diary
- Content delivery methods
- Course Material
- Continuous Assessment
- Faculty meeting and their inputs
- Action plan by the Head of the College
- Regular student feedback and suggestions
- Training and developmental activities

The College develops its action plan through participative approach. The head of the department requests the faculty members to choose the subjects that they are interested in based on their specialization at the beginning of the semester. Post allotment of the subjects the faculty members of the college make their Course content coverage Plan, Tutorial questions and Course Material and submit the same to the Head of the department for his approval. The compatibility of the course material with the syllabus is checked by the experts and the Head of the department before commencement of the semester.

The each department (specialization wise departments) in the college shall prepare its activities plan for the entire semester to support the curriculum based on the availability of number of working days. The head of the College plans for training programmes, student development activities and other academic activities for the semester based on the departmental plans and inputs from the faculty. The Dean (Audit, Quality Control and Planning) take regular feedback from the students regarding the difficulties faced by them and issues like ambiguity and relevance of the topics in the syllabus and helps the students to deal with them. The principal collects feedback through class representatives meeting once in a semester.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- Modern teaching aids are provided to teachers to effectively translate their thoughts into expression.
- To ensure Staff to change their traditional teaching practice and motivate them to switch over to use modern methods, college installed only white boards instead of black boards in the class rooms since inception, this apart they have access to OHP, LCD from the departments.

- Various refresher courses, seminars, conferences and faculty development programmes are conducted to enlighten the faculty community-both internal and external, for a creative and continuous teaching-learning environment.
- VCE believes in implementing the ICT (Information and Communication Technology) methods in teaching.
- The teachers are exposed to online resources like Journals, Simulation Software and NPTEL Videos.
- Faculty are encouraged to attend various national and international seminars, conferences and FDPs and to write research papers in reputed journals with good impact factor and citation.

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

- VCE has a proactive approach; the concerned staff of each course develops a course file well in advance that contains Schedule of Instructions, Course Description Form, Tutorial Questions, and Assignments and keeps a continuous record of the syllabus coverage in the activity diary.
- Currently, the course files are being developed as per the standards of Outcome Based Education (OBE).
- The course file is also being made available online to the student community. Each course file helps the students to get Tutorial Questions, Content Schedule of Instruction, Activity Diary, Course Description Form, Course Assessment Form, Continuous Assessment Test, Mid Semester Exam Question papers and End Semester Exam Question Papers with Scheme of Evaluation, Lecture videos, and helps the students to understand the objectives and outcomes of the course.
- The college has initiated special remedial classes for slow learners under finishing school concept.
- Special classes are conducted for those students, who could not attend the classes on account of beyond academic activities to make up for the loss.
- Corporate delegates and Scientists from local industry and R & D centers are also invited to fill the gap between theory and practice.

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

VCE encourages its faculty and students to interact with industry in all possible ways with the spirit of deriving mutual benefit. The major modes of interaction are listed as follows:

- VCE has constituted a Board of Studies for each Department composed of people drawn from both the College and the industry.
- The comments and views of the industry experts on the curriculum will be collected.
- Professional consultancy by the faculty to industries.
- Scope for Joint research programmes and field studies.
- The College receives feedback from the students who are employed, during alumni visit about the usefulness of the course and curriculum.

- Visiting faculties/professors with corporate background.
- Projects/dissertation work in industries under joint guidance of the faculty and experts from the industry.
- The College receives the views of the R & D organization on curriculum through students, and some staff members who are being part of research projects at various R & D Labs.
- The faculty of the college is regularly in touch with their counter parts at the affiliating university and other recognized universities to acquire the latest information regarding their own respective subjects.
- Industrial visits and interactions by faculty and students.
- Visits of the industry executives to the College for discussions and for delivering lectures on industrial practices, trends and experiences.
- Human resource development programmes by the faculty for industry personnel.
- Workshops, conferences with joint participation of the faculty and the industry.
- Participation of experts from industry in academic activities.
- Practical training of the students in industries during internships.

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

- All Senior Faculty members as subject experts have equal participation in the curriculum development. The departments Board of studies depend on the feedbacks received from various stake holders including class representatives while reviewing and formulating the syllabus. All suggestions from all sources are taken into consideration and forethought.
- An intense review on the current syllabus in comparison with the ones from other Colleges and the requirement of the industry is performed within each branch while formulating the curriculum by its Board of Studies for ratification by the College Academic Council.
- The suggestions and improvements will also be taken from the Board of Studies of the affiliating university through the Principal, after receiving an informal feedback from all the stake holders, for curriculum development activities.
- The suggestions on curriculum will be exchanged during discussions conducted before the Board of Studies meeting of University on syllabus.

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

The JNTUH has given academic autonomous status, this has given an opportunity for VCE to modify and develop curriculum for UG programmes and PG programmes by duly constituted Board of Studies (BOS).

The courses have been introduced based on industrial requirement by qualified personnel in emerging areas. The following courses are designed in collabora-

tion with industries like Infosys, IBM etc for the Departments of CSE / IT and Aeronautical Engineering.

- Web Technologies
- DB2 Fundamentals
- Building Enterprise Applications
- Rational Application Developer
- Business Intelligence and Analytics
- Introduction to Aircraft Industry

The process of curriculum development is stated as follows:

Need Assessment:

Need assessment is done even before the choice of the programme. This is done by evaluating the feedback from stakeholders.

Design of Curriculum:

This is done by conducting the Board of Studies (BOS) meeting by inviting Experts from industry, Research and University and the Programme chairman. If the course is inter-disciplinary, Heads of departments and experts from all the departments concerned the members of the committee. The designing part was done after making a thorough evaluative study of the content and design of similar programmes offered by various other Universities at National / International level and professional societies like IEEE, ACM, ASME and ASCE.

Development and Planning:

Target group and their needs are given priority while designing curriculum. The objectives of the group also are given focus. Throughout the designing stage, focus is set on the objectives pre-determined for the programme as well as the objective of the institution. Duration of the Programme, Hours of Instructions, Courses offered, Projects or internships if any, Mode of Assessment are the other concerns that arise at the department's planning stage.

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

To analyze and ensure the objectives of the curriculum, the students are asked to fill feedback forms provided as Annexure in the NAAC SSR format. Apart from this, assignments, projects and tests are taken in UG and PG classes, to see how the students are coping with the syllabus.

The institution is able to analyze the achievement of the curriculum objectives in the course of implementation of the curriculum by the following ways:

Achievements of Objectives: Objectives of each course are mentioned clearly along with the syllabus given to the teachers as well as the students. Each department plans a series of activities through the Departmental Technical Associations, which complement the syllabus and help the students achieve the objectives of the programme.

Mode of delivery of Curriculum: Use of ICT in class rooms takes the students to a world beyond the syllabus. Virtual labs, interaction with global level experts etc play an important role in curriculum delivery in this institution.

Assessment pattern: Various modes of assessment are formulated by the faculty in order to ensure that the stated objectives are achieved. The students are internally assessed by the Course faculties through internal examinations conducted per semester and other assignments on their curriculum understanding. The subject understanding by the student is also analyzed through mentorship initiatives.

Examination results: The examination scores of the individual and the consolidated results are analyzed and tabulated.

Employer feedback: Feedback about our students from the corporate representatives who have recruited our students on the basis of their competencies and curriculum understanding.

Faculty Feedback: Head of the institution interact with the faculty so as to assess the instructor's feedback and experiences in the curriculum implementation.

The Co-curricular activities designed and implemented here are calculated to expand and enhance the learning outcome of the students through intense level of interaction within the campus.

Involvement in co-curricular programmes has proved a successful strategy to help students meet their learning objectives along with the institution's educational purposes and values.

Department Technical Associations play a vital role in coordinating the co-curricular activities in this institution.

Continuous evaluation of the students through internal assessment and examinations brings out the best in them. Achievements of the students in numerous events within and outside the campus, the numerous placements and offers they receive ensure that the set objectives are achieved. The feedback from the students enables faculty to improve the curriculum delivery and professional skills. An extra hour has also been introduced to incorporate the Add-on and certificate courses to help them achieve the objectives.

1.2 Academic Flexibility

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

Goals and Objectives of the Certificate /Skill Development Courses:

- Quest for excellence
- Value formation
- Global level competency, employability and Self development
- Bonds between the world of work and the world of learning

Keeping in mind the growing needs at state, national and global level and considering the unprecedented need of making the environment eco friendly, the college imparts education at Graduate/Post Graduate Degree Level in most of the branches of Engineering and Technology.

Following is the List of Courses offered by the Institution for the academic year 2013 - 2014:

S No.	COURSE(S)	AICTE Approved Intake
B. Tech:		
1	Electronics and Communication Engineering	240
2	Computer Science and Engineering	240
3	Information Technology	120
4	Electrical and Electronics Engineering	90
5	Mechanical Engineering	120
6	Aeronautical Engineering	60
7	Civil Engineering	60
M. Tech:		
8	Wireless & Mobile Communications	18
9	Computer Science and Engineering	36
10	Power Electronics & Electrical Drives	18
11	Digital Electronics & Communication Systems	36
12	Software Engineering	18
13	Engineering Design	18
14	Embedded Systems	24
15	Structural Engineering	18
Other PG Courses		
16	Master of Business Administration (MBA)	60
TOTAL INTAKE		1176

Apart from these regular courses which are duly affiliated with the Jawaharlal Nehru Technological University, Hyderabad, the college also offers certain certification courses which basically serve the purpose of value addition. These are

- IBM Certification course in association with IBM India Pvt. Ltd, India
- CISCO certification course in association with CISCO, USA
- Oracle and Java Certification in association with Oracle

These courses enhance the employability opportunities for the students.

Details of Certificate Programmes:

Academic Year	Name of the Event	Date of Event Conducted	Type of Event	No. of Certified	
				Students	Faculty
2012 - 2013	Rational Team Concert V3	08 - 11 October 2012	Certification Course	71	02
	IBM DB2 9 Database and Application Fundamentals	07 - 09 September 2012	Certification Course	90	--
2011 - 2012	IBM DB2 9 Database and Application Fundamentals	03 - 05 February 2012	Certification Course	91	--
	IBM Lotus Notes and Domino 8	23 - 25 & 27 January 2012	Certification Course	89	04
	IBM Tivoli Directory Server V6.1	04 - 07 August 2011	Certification Course	56	01
2010 - 2011	IBM Rational Application Developer	08 - 11 March 2011	Certification Course	64	08
	IBM DB2 9.7 Fundamentals and Applications	14 - 16 March 2011	Certification Course	55	01
	IBM DB2 V9 Fundamentals	05 - 07 August 2010	Certification Course	85	06
Total				601	22

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

The College at its own level does not offer dual degree programmes. AICTE is yet to publish a list of institutions abroad with which the Indian institutions can tie up to offer dual degree/twinning programmes. The College is waiting for the list of recognized foreign universities to initiate the tie ups.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability

VCE curriculum offers Interdepartmental electives and Professional electives for III and IV year students to fulfill the interests of student community.

Various International Certification and skill enrichment programmes are conducted department wise to enrich the knowledge base of the student community and also to meet the needs of industry.

Range of Core /Elective options offered by the University and those opted by the college:

VCE offers seven specializations in the areas of Engineering and Technology under UG level and eight specializations in PG level. The syllabi for these specializations are prescribed by the Jawaharlal Nehru Technological University, Hyderabad.

The courses are given below:

UG Courses (B.Tech):

1. Electronics and Communication Engineering
2. Computer Science and Engineering
3. Information Technology
4. Electrical and Electronics Engineering
5. Mechanical Engineering
6. Aeronautical Engineering
7. Civil Engineering

PG Courses (M.Tech):

1. M. Tech. (Wireless & Mobile Communications)
2. M. Tech. (Computer Science and Engineering)
3. M. Tech. (Power Electronics & Electrical Drives)
4. M. Tech. (Digital Electronics & Communication Systems)
5. M. Tech. (Software Engineering)
6. M. Tech. (Engineering Design)
7. M. Tech. (Embedded Systems)
8. M. Tech. (Structural Engineering)

Other PG Courses:

1. Master of Business Administration (MBA)
2. Master of Computer Applications (MCA)

Elective Options at the UG level:

**B. TECH - COMPUTER SCIENCE AND ENGINEERING
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
INTERDEPARTMENTAL ELECTIVE – II	
A1610	Image Processing
A1222	Power Electronics
A1429	VLSI design
A1337	Robotics
A1148	Air Pollution and Control Methodologies
A1701	Introduction to Aircraft Industry
PROFESSIONAL ELECTIVE - I	
A1331	Operations Research
A1608	Building Enterprise Applications
A1609	Bioinformatics
A1527	Rational Application Developer
A1528	Advanced Computer Architecture
A1529	Distributed Operating Systems
PROFESSIONAL ELECTIVE - II	
A1611	Grid And Cloud Computing
A1533	Business Intelligence and Analytics
A1534	Artificial Intelligence
A1535	Natural Language processing
A1536	Distributed Databases
A1537	Multi-Core Architecture and Programming
PROFESSIONAL ELECTIVE - III	
A1616	Information Retrieval System
A1617	Semantic Web and Social Networks
A1538	Fault Tolerant Computing
A1539	Game Development Using CUDA
A1540	Software Architecture
A1541	Soft Computing

**B. TECH - INFORMATION TECHNOLOGY
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
INTERDEPARTMENTAL ELECTIVE – II	
A1526	Data Mining and Data Warehousing
A1222	Power Electronics
A1429	VLSI design
A1337	Robotics
A1148	Air Pollution and Control Methodologies
A1701	Introduction to aircraft industry
PROFESSIONAL ELECTIVE - I	
A1331	Operations Research
A1527	Rational Application Developer
A1529	Distributed Operating Systems
A1608	Building Enterprise Applications
A1609	Bioinformatics
A1610	Image Processing
PROFESSIONAL ELECTIVE - II	
A1533	Business Intelligence and Analytics
A1611	Grid and Cloud Computing
A1612	Geographical Information Systems
A1613	Ad- Hoc and Sensor Networks
A1614	Multimedia and Rich Internet
A1615	Service Oriented Architecture
PROFESSIONAL ELECTIVE - III	
A1539	Game Development Using CUDA
A1540	Software Architecture
A1541	Soft Computing
A1616	Information Retrieval Systems
A1617	Semantic Web and Social Networks
A1618	Network Management System

**B. TECH - ELECTRONICS AND COMMUNICATION ENGINEERING
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
INTERDEPARTMENTAL ELECTIVE - II	
A1508	Operating Systems
A1528	Advanced Computer Architecture
A1606	Network Security and Cryptography
A1228	Energy Management
A1331	Operations Research
A1725	Avionics
PROFESSIONAL ELECTIVE - I	
A1432	Telecommunication Switching Systems
A1433	Digital Image Processing
A1434	CPLD and FPGA Architectures and Applications
A1435	Real Time Operating Systems
A1436	Mobile Computing Technologies
A1437	Optical Communications
PROFESSIONAL ELECTIVE - II	
A1442	Wireless Communications and Networks
A1443	DSP Processors and Architectures
A1444	Low Power VLSI Design
A1445	Software Radio
A1446	Artificial Neural Networks and Fuzzy Logic
A1344	Nanotechnology
PROFESSIONAL ELECTIVE - III	
A1447	High Speed Networks
A1448	Speech Signal Processing
A1449	Design of Fault Tolerant Systems
A1450	Biomedical Instrumentation
A1451	RF Circuit Design
A1452	Optical Networks

**B. TECH - ELECTRICAL AND ELECTRONICS ENGINEERING
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1511	Database Management Systems
A1605	Wireless and Mobile Computing
A1429	VLSI Design
A1337	Robotics
A1701	Introduction to Aircraft Industry
A1148	Air pollution and Control Methodologies
INTERDEPARTMENTAL ELECTIVE - II	
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
PROFESSIONAL ELECTIVE - I	
A1227	High Voltage Engineering
A1228	Energy Management
A1229	Linear System Analysis
A1230	Instrumentation
A1231	Special Electrical Machines
A1232	Power System Transients
PROFESSIONAL ELECTIVE - II	
A1237	Electrical Distribution Systems
A1238	High Voltage DC Transmission and FACTS
A1239	Power Quality
A1240	Advanced Control Systems
A1241	Dynamics of Electrical Machines
A1242	Advanced Power System Protection
PROFESSIONAL ELECTIVE - III	
A1243	Reliability Engineering
A1244	Digital Control Systems
A1245	Extra High Voltage AC Transmission
A1246	Machine Modeling and Analysis
A1247	Solar Energy and its Applications
A1248	Programmable Logic Controllers

**B. TECH - MECHANICAL ENGINEERING
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTALAL ELECTIVE - I	
Code	Subject
A1511	Database Management Systems
A1610	Image Processing
A1453	Digital Electronics and Microprocessors
A1228	Energy Management
A1735	Fatigue and Fracture Mechanics
A1148	Air Pollution and Control Methods
INTERDEPARTMENTALAL ELECTIVE – II	
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
PROFESSIONAL ELECTIVE - I	
A1334	Automobile Engineering
A1335	Rapid Prototyping
A1336	Mechatronics
A1337	Robotics
A1338	Composite Materials
A1339	Un Conventional Machining Process
PROFESSIONAL ELECTIVE - II	
A1344	Nano Technology
A1345	Plant Engineering and Industrial Safety
A1346	Computational Fluid Dynamics
A1347	Automation in Manufacturing
A1348	Reliability Engineering
A1349	NDT Techniques
PROFESSIONAL ELECTIVE - III	
A1350	Concurrent Engineering
A1351	Mechanical Vibrations
A1352	Total Quality Management
A1353	Non Conventional Sources of Energy
A1354	Tribology
A1355	Advanced IC Engines

**B. TECH - AERONAUTICAL ENGINEERING
REGULATIONS: VCE-11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1148	Air Pollution and Control Methodologies
A1441	Satellite and Radar Communications
A1453	Digital Electronics and Microprocessors
A1331	CAD/CAM
A1337	Robotics
A1338	Composite Materials
INTERDEPARTMENTAL ELECTIVE – II	
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
PROFESSIONAL ELECTIVE - I	
A1726	Space Mechanics
A1727	Aero Elasticity
A1728	Fatigue and Fracture Mechanics
A1344	Nano Technology
A1729	Boundary Layer Theory
A1730	Experimental Stress Analysis
PROFESSIONAL ELECTIVE - II	
A1735	Advanced Computational Fluid dynamics
A1736	Industrial Aerodynamics
A1737	Hypersonic Aerodynamics
A1738	Airport Management
A1739	Non destructive Testing
A1740	Theory of Plates and Shells
PROFESSIONAL ELECTIVE - III	
A1741	Rockets and Missiles
A1742	Propellant Technology
A1743	Helicopter Engineering
A1744	Design of Aircraft Structures
A1745	Hydraulics and Pneumatics Systems
A1746	Air Line Management

**B. TECH - CIVIL ENGINEERING
REGULATIONS: VCE-R11A**

ELECTIVES	
INTERDEPARTMENTAL ELECTIVE - I	
Code	Subject
A1610	Image Processing
A1228	Energy Management
A1710	Air Transportation Systems
A1330	Operations Research
A1503	Data Structures through C
A1453	Digital Electronics and Microprocessors
INTERDEPARTMENTAL ELECTIVE – II	
A1016	Human Values and Ethics
A1017	Human Resource Management
A1018	Entrepreneurship
A1019	Business Communication
A1020	Intellectual Property and Patent Rights
A1021	Project Planning and Management
PROFESSIONAL ELECTIVE - I	
A1132	Design and Drawing of Hydraulic Structures
A1133	Pavement Analysis and Design
A1134	Environmental Impact Assessment Methodologies
A1135	Advanced Structural Analysis
A1136	Rehabilitation and Retrofitting Structures
A1137	Urban Planning and Information Systems
PROFESSIONAL ELECTIVE - II	
A1142	Earth Quake Resistant Design Structures
A1143	Industrial Waste and Waste Management
A1144	Ground Improvement Techniques
A1145	Urban Disaster and Intelligent Control Systems
A1146	Bridge Engineering
A1147	Multy Storeyed Structures
PROFESSIONAL ELECTIVE - III	
A1148	Air Pollution and Control Methodologies
A1149	Pre stressed Concrete Structures
A1150	Soil Dynamics And Machine Foundation
A1151	Traffic Engineering
A1152	Geoinformatics for Environmental Monitoring
A1153	Industrial Structures

Elective Options at the PG level:

**M. TECH - COMPUTER SCIENCE AND ENGINEERING
REGULATIONS: VCE--R11**

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1205	Artificial Intelligence and Neural Networks	B1208	Web Technologies
B1206	Computer Vision and Graphics	B1209	Embedded Systems
B1207	Digital Image Processing and Pattern Recognition	B1210	C# and .Net Framework
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE - IV	
Code	Subject	Code	Subject
B1217	Cloud Computing	B1218	Data Warehousing and Data Mining
B1505	Software Quality Assurance and Testing	B1219	Modern Compilers – Theory and Practice
B1506	Service Oriented Architecture	B1220	Distributed Computing

**M. TECH - SOFTWARE ENGINEERING
REGULATIONS: VCE--R11**

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1205	Artificial Intelligence and Neural Networks	B1208	Web Technologies
B1207	Digital Image Processing and Pattern Recognition	B1209	Embedded Systems
B1503	Wireless Networks and Mobile Computing	B1210	C# and .Net Framework
PROFESSIONAL ELECTIVE – III		PROFESSIONAL ELECTIVE – IV	
Code	Subject	Code	Subject
B1217	Cloud Computing	B1219	Modern Compilers – Theory and Practice
B1508	Multimedia and Rich Internet Development	B1220	Distributed Computing
B1509	Network Security and Cryptography	B1510	Semantic Web and Social Networking

**M. TECH - DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS
REGULATIONS: VCE--R11**

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1103	Mobile Satellite Communications	B1105	Optical Communications Technology
B1405	Detection and Estimation Theory	B1407	CPLD and FPGA Architectures and Applications
B1406	Advanced Computer Architecture	B1408	Microcontrollers and Embedded Systems
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE - IV	
Code	Subject	Code	Subject
B1413	Network Security and Cryptography	B1115	Optical Networks
B1414	Digital Signal Processors and Architectures	B1416	Design for Testability
B1415	Radar Signal Processing	B1417	Hardware Software Co-Design

M. TECH - EMBEDDED SYSTEMS
REGULATIONS: VCE-R11

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1604	Embedded Linux	B1606	Image and video processing
B1605	Systems Programming	B1607	Soft Computing
B1306	Optimization Techniques	B1608	System Modeling and Simulation
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE - IV	
Code	Subject	Code	Subject
B1613	System On Chip Architecture	B1413	Network Security and Cryptography
B1614	Embedded Network and protocols	B1616	Robotics and Automation
B1615	Device Driver Development	B1617	Application of MEMS

M. TECH - WIRELESS AND MOBILE COMMUNICATIONS
REGULATIONS: VCE-R11

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1405	Detection & Estimation Theory	B1105	Optical Communication Technology
B1103	Mobile Satellite Communications	B1106	Mobile Computing Technologies
B1104	Speech Signal Processing	B1107	RF Circuit Design
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE - IV	
Code	Subject	Code	Subject
B1413	Network Security and Cryptography	B1115	Optical Networks
B1414	Digital Signal Processors and Architectures	B1116	Software Defined Radio
B1114	Voice Over Internet Protocol	B1117	Propagation Models for Wireless Communications

M. TECH - POWER ELECTRONICS AND ELECTRIC DRIVES
REGULATIONS: VCE-R11

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1305	Advanced Micro Processor and Micro Controllers	B1308	Evolutionary Computation
B1306	Optimization Techniques	B1309	Energy Conversion Systems
B1307	Distribution Automation	B1310	Advanced Digital Signal Processing
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE - IV	
Code	Subject	Code	Subject
B1317	Reliability Engineering	B1320	Programmable Logic Controllers and Applications
B1318	Power Quality	B1321	Reactive Power Compensation and Management
B1319	Embedded Systems	B1322	Optimal Control

**M. TECH - ENGINEERING DESIGN
REGULATIONS: VCE-R11**

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1705	Mechatronics System Design	B1708	Mechanics of Composite Materials
B1706	Fracture, Fatigue and Creep Deformation	B1709	Design For Manufacturing
B1707	Tribology and Bearing Design	B1710	Theory of Elasticity
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE – IV	
Code	Subject	Code	Subject
B1717	Computer Applications in Design	B1720	Pressure Vessel and Piping Design
B1718	Computational Fluid Dynamics	B1721	Nano Technology
B1719	Theory of Plates	B1722	Robust Design

**M. TECH - ENGINEERING DESIGN
REGULATIONS: VCE-R11**

ELECTIVES			
PROFESSIONAL ELECTIVE - I		PROFESSIONAL ELECTIVE - II	
Code	Subject	Code	Subject
B1805	Advanced Concrete Technology	B1808	Earth Quake Resistant Design of Buildings
B1806	Optimization Techniques in Structural Engineering	B1809	Theory and Applications of Cement Composites
B1807	Construction Project Management	B1810	Experimental Stress Analysis
PROFESSIONAL ELECTIVE - III		PROFESSIONAL ELECTIVE – IV	
Code	Subject	Code	Subject
B1817	Low Cost Housing Techniques	B1820	Plastic Analysis
B1818	Advanced Pre Stressed Concrete Design	B1821	Stability of Structures
B1819	Bridge Engineering	B1822	Rehabilitation and Retrofitting of Concrete Structures

Courses offered in modular form:

Courses are provided unit wise and are arranged in the modular form at department level by academic committees comprising of HOD's, staff and Principal. The modules so arranged are also used for testing the students in the exams (Mid Semester Exams and Continuous Assessment Test-I, Continuous Assessment Test - II).

Credit transfer and accumulation facility:

There are no transfer and accumulation facilities offered.

Lateral and vertical mobility within and across programmes and courses:

No lateral and vertical mobility within and across programmes and courses offered Enrichment courses:

The existing courses are enriched by preparing the students to design small projects and presentations related to theory work. Additional lectures by the experts are also organized time to time to update the knowledge of our students.

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

Yes, The College is a self-finance private Engineering college offering the following programmes for the academic year 2013 - 2014 recognized by the AICTE and affiliated with Jawaharlal Nehru Technological University, Hyderabad.

S. No.	COURSE(S)	AICTE Approved Intake
B. Tech:		
1	Electronics and Communication Engineering	240
2	Computer Science and Engineering	240
3	Information Technology	120
4	Electrical and Electronics Engineering	90
5	Mechanical Engineering	120
6	Aeronautical Engineering	60
7	Civil Engineering	60
M. Tech:		
8	M. Tech. (Wireless & Mobile Communications)	18
9	M. Tech. (Computer Science and Engineering)	36
10	M. Tech. (Power Electronics & Electrical Drives)	18
11	M. Tech. (Digital Electronics & Communication Systems)	36
12	M. Tech. (Software Engineering)	18
13	M. Tech. (Engineering Design)	18
14	M. Tech. (Embedded Systems)	24
15	M. Tech. (Structural Engineering)	18
Other PG Courses		
16	Master of Business Administration (MBA)	60
TOTAL INTAKE		1176

Policies Regarding Self-financed Courses

a. Admission

The admission policy for self-financing programmes is in tune with the norms fixed by the Government for the different categories.

Under Graduate Courses (B. Tech):

The candidates who have passed 10+2 or equivalent examination with Mathematics, Physics and Chemistry with 50% of marks are eligible for admission. The seats to be allotted in each Un-aided Non-Minority Professional Institution under these Rules for Admission of Candidates shall be classified as:

- 1) Category A seats
- 2) Category B seats

- (1) The Category A seats shall be 70% of sanctioned intake of seats in each course in Un-Aided Non-Minority Professional Institution, which shall be filled with eligible candidates on the basis of Rank obtained at EAMCET / EAMCET-AC

- (2) The Category B Seats shall be 30% of the total intake of seats in each course in respect of Un-Aided Non-Minority Professional Institutions, which shall be open for admission to all the eligible candidates on merit basis including candidates belonging to other States and Union Territories of India and NRIs / NRI Sponsored Candidates.
- a) The NRI seats (not exceeding 15% of the sanctioned intake in each course) shall be filled on merit basis with NRI / NRI sponsored candidates who have passed the qualifying examination with not less than 50% of in the prescribed group subjects or Cumulative Grade Point Average (CGPA) equivalent to 5 on a scale of 10.
 - b) The remaining seats shall be filled on merit basis with candidates belonging to other States and Union territories who have secured rank at AIEEE and secured not less than 50 % of aggregate marks in the qualifying examination.
 - c) There after, if any seats still remain unfilled such seats may be filled on merit basis with candidates securing not less than 50% in the prescribed group subjects taken together in the qualification examination.

Post Graduate Courses (M. Tech):

70% of seats are filled by AP State Council for Higher Education through a state level Common Entrance Test PGECET. The candidates who qualify in the CET and pass the qualifying examination (B. Tech/BE/AIMIE/M. Sc/MCA etc. as per the eligibility) will be admitted through common personal counseling. The candidates having valid GATE scores will be given preference at the time of admission. The remaining 30% seats are filled by the management under “B” Category by the candidates who have passed the qualifying examination with 50% and above marks based on the merit out of the applications received.

Post Graduate Courses (MBA and MCA):

70% of seats are filled by AP State Council for Higher Education through a state level Common Entrance Test ICET. The candidates who qualify in the CET and pass the qualifying examination (any degree for MBA and degree with Mathematics as one of the subject either at UG level or at 10+2 level) will be admitted through common Web based/ personal counseling. The remaining 30% seats are filled by the management under “B” Category by the candidates who have passed the qualifying examination with 50% and above marks based on the merit out of the applications received.

b. Fee Structure

The fee structure is recommended by the Government of Andhra Pradesh and charged from the students accordingly

c. Teacher Qualifications

The qualification for the faculty of the self-financed stream is as per the AICTE norms.

d. Salary

The AICTE qualification is mandatory for teachers. They are duly approved by the Affiliating University. The Professors, Associate Professors and Assistant Professors along with non teaching and support staff draw salary as per AICTE VI Pay regulations and DA as per the State Government Norms amended from time to time. The Non Teaching and Supporting staff are paid IX PRC.

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

After analyzing and researching the requirements of the industry, VCE has understood what a student enrolling into the Engineering and Technology programs requires and accordingly we have devised an innovative Industry related program which makes them industry ready to survive and lead in the challenging competitive atmosphere. All the students have mandatory sessions on their weekly schedule for the in-house training in order to enhance employability skills apart from their regular ongoing guest lectures, seminars and workshops.

Regular Training Programme:

Some of the areas covered are stated as follows:

- Working in a Team
- Making effective presentations
- Action planning - Techniques to reach self goals
- Decision making skills
- Problem-solving skills
- Time management
- Commercial awareness
- Spoken communication
- Written communication
- Persuading, influencing and negotiating skills
- Leadership skills including a leadership styles exercise
- Language skills
- Computing skills
- Striving for excellence
- Determination
- Adaptability
- Assertiveness
- Lateral thinking
- Creative job hunting

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?

The affiliating University does not provide us with the flexibility of combining the conventional face to face and distance mode of education for students to choose courses/combinations of their choice.

1.3 Curriculum Enrichment

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

The JNTUH has granted Academic Autonomous status, this ensure that the college's outcomes and objectives are met. Major syllabus revision is done once in two years. The departments periodically review the curriculum and update it in order to maintain social relevance with respect to the changes taking place in the society, utility and employability with the aim of achieving holistic development of students.

Additional Laboratory experiments have been included in lab courses apart from curriculum to enrich the student's practical knowledge and skill base.

1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

Curriculum design and revision is a **continuous process** and the departments focus on achieving **academic excellence** by modifying the syllabus to suit the **global and regional needs/trends**. Major syllabus revision is done once in two years.

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

Supplementary courses apart from curriculum are introduced to meet the needs of dynamic employment market.

- Various International certification programmes are offered to enhance the employability skills of the students like Oracle Certified Associates (OCA), Sun Certified Java Professionals (SCJP), CISCO Certified Network Administration (CCNA), IBM Certifications like DB2, RAD, TDS, LOTUS, RFT etc.,
- Efforts are made through change in Hardware and Software in tune with Industry needs like Android, Web 2.0, Python, and IBM DB2.
- Courses in VLSI through Cadence, Micro Controllers, DSP, Digital design through FPGA and Microprocessors.

The institution has taken measures to cater to the global market needs based on the true assessment of strengths and services offered in the campus. To develop the required skills, brainstorming sessions are held for the faculty to design the tools in the areas of Technology, use of computers and providing in-depth knowledge in the respective subjects. Under the guidance of various committees, special training and tailor made orientations are conducted to enable the students to achieve the global standards. The institution is completely computerized at the administration and academic levels. Computer labs are well equipped with latest computers. Internet facility is made available at the library. OHP, Computers, LCD Projectors are being used for effective communication and teaching. All graduation

courses involve one compulsory fundamentals of Computers paper. The study of this enables all graduates to be familiar with computer fundamentals which enhance employability.

Entrepreneurship Development Cell:

A separate cell for entrepreneurship development is incorporated in the college. This cell creates awareness of need and importance of entrepreneurship as career option among the students thereby strengthening their Entrepreneurship skills.

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

Several issues of global concern are either integrated into the curriculum or addressed through add-on activities. There is a full-fledged foundation course paper on Environmental Studies, which is studied by the graduate-level students, of all faculties. The issue of Human Rights is addressed to the department of Humanities and Sciences every year, when a massive human chain is made, and rallies taken out, with students made to take an oath of protection of human rights. The faculty also runs a NSS program in which students carry out regular plantations, and are also informed about rain-water harvesting, environment protection etc.

The cross cutting issues like Gender, Climate Change, Environment Education, Human Rights, ICT etc, find an ample space when it comes to applying them positively into the curriculum. The college, at its own level and with the assistance from University and other institutions like JNTUH, Hyderabad, etc. make arrangements for workshops and conferences of national level where the experts are invited to share and deliver their experiences and knowledge. The college regularly organizes state level seminars on women empowerment. The Management too has supported the cause of the women education thereby offering free books to the girl students. The subject of environment education is a part of the college curriculum. It is compulsory for all the students, irrespective of any stream, to clear the paper of environment.

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

Value-added courses/enrichment programmes are offered to ensure holistic development of students by providing moral and ethical values, employable skills, life skills, better career options, community orientation etc.

Moral and Ethical Values:

To foster moral and ethical values among the students, the college has introduced a Course on Human values and Ethics. The Course will improve the moral and ethical values of the students and also organizes orientation programmes at the beginning of every semester. Generally this will be for five days. Eminent personalities from different walks of life are invited to deliver lectures on various topics that would enable the students become mentally wiser and morally stronger. (Add ethical and social course in the curriculum)

Employable and Life Skills:

The College organizes certificate courses on Self Management, Personality Development and Leadership Skills. Training sessions of the analytical rea-

soning, presentation skills, self branding etc have also been initiated for student benefit. There have been various programmes conducted specifically in areas of number crunching, investments, marketing skills etc.

Better Career Options:

In order to enhance the student's career options, the Placement and Training Cell has organized various training courses. Various International certification programmes and Industry Oriented Courses are designed to meet the needs of the current trends in engineering. These career oriented programs make our students ready to work.

Community Orientation:

Many community orientation programmes have been undertaken at VCE like, blood donation camps, environmental protection, human rights, etc. The college has an NSS team which regularly visits surrounding areas and villages where people are provided awareness on various social, moral, ethical principles and ways of life. NSS team of the college participates in community services/development activities like organizing blood donation camps periodically.

To improve social awareness, encourage holistic development and to develop team player and leadership abilities a wide variety of programmes are conducted in our college annually planned, designed and executed under guidance by the students.

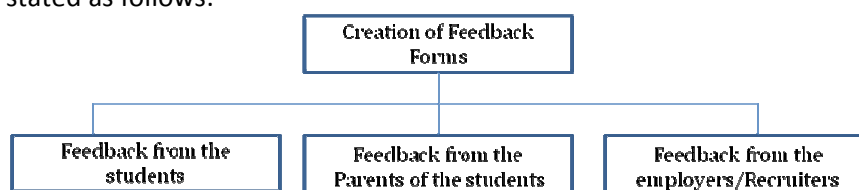
- Technolites - A National wide Technical Symposium
- Ortus - A Cultural Festival
- Department wise Technical Associations CETA, TAIT, VIVECA, ETA, CEA etc conducts valedictory functions for the activities happened in that academic year
- Mini and Major Projects Exhibitions
- Technical Seminar contests

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

The students are made to fill the feedback forms regarding the Course content and Outcomes achieved and for the faculty efficacy in helping them grasp the subject. The forms are later scrutinized to see what improvements can be made.

Integrating Stakeholder Feedback into Curriculum Development and resulting revision is a process in which we have only a partial participation as the Curriculum is ultimately designed and developed by the Board of Studies. In that process, the faculty take into account the views and interests of the various stakeholders connected with University education, namely, students and their parents, faculty and administrative staff, the society, the alumnae and the employer segments.

The process of collecting and utilizing the feedback from our stakeholders is stated as follows:



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

The College makes sure that all the value added programmes offered should contribute to the development of the students in terms of skill, knowledge and different type of maturities like mental maturity, intellectual maturity, philosophical maturity etc.

The institution conducts various enrichment programmes. These are constantly reviewed and monitored through the feedback system. The feedback forms for each of such programmes are designed by the committee or department who organize such programmes. The feedbacks for such programmes are taken on the syllabus, resource persons, and the style/method of programme delivery. This mainly looks for whether stated objectives of the programme are achieved or not.

Students have to fill the feedback forms thus prepared after the sessions of these programmes. Once the feedback forms are collected, they are further evaluated to find the shortcomings of the programme, success of the programme, its quality etc. This feedback is taken into account by the responsible committee, who has organized such programmes for future enhancement and correction.

More than 65% of our students have been employed during the last four years. We collect the employer feedback and based on analysis and evaluation of the scores, judge the quality of our enrichment programmes.

1.4 Feedback System

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

The JNTUH has granted Academic Autonomous status, this ensure that the college's outcomes and objectives are met. Major syllabus revision is done once in two years. The departments periodically review the curriculum and update it in order to maintain social relevance with respect to the changes taking place in the society, utility and employability with the aim of achieving holistic development of students.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Vardhaman College of Engineering obtains feedback on curriculum from the stakeholders like students, employers, faculty, parents and subject experts.

The process of the feedback system at Vardhaman College of Engineering is illustrated as follows:

Aspects of the Curriculum to be evaluated:

Vardhaman College of Engineering determines on some of the critical aspects of the curriculum to be considered at the time of evaluation. The critical aspects considered can be course accomplishments, contribution level of the institution, value added inputs, extensive faculty services, course content and delivery, etc.

Data Collection:

Vardhaman College of Engineering (then identifies the people (stakeholders) from whom data is to be collected. The information thus required is collected through tools like interviews, questionnaires, tests, etc.

Analysis of Information:

The data so collected is analyzed, interpreted, Data mined and presented in the form of tables and graphs.

Reporting of Information:

Reports are written describing the findings and interpretation of the data. Based on the findings, conclusions are drawn on the effectiveness of the curriculum. Further to this, recommendations are made to the Board of Studies with regards to the curriculum.

1.4.3 How many new programmes / courses were introduced by the institution during the last four years? What was the rationale for introducing new courses / programmes?)

Rationality in Introducing a New Course:

- While choosing programmes we keep in mind institutional goals and objectives, and prioritize those that would do justice to them.
- The rationale behind the introduction of the above courses and their curriculum is based on demand and industry relevance.
- In every department, new lab courses have been proposed to meet the requirements of global market place in terms of key skill sets and confidence.

The table below shows some of the important courses started by the Institution during the past four years.

New Courses Introduced

S. No.	Course	Coordinating Department	Year of Commencement
1	M.Tech - Structural Engineering	Civil Engineering	2013 - 2014
2	M.Tech - Embedded Systems	Electronics and Communication Systems	2012 - 2013
3	M.Tech - Engineering Design	Mechanical Engineering	2012 - 2013
4	M.Tech - Software Engineering	Computer Science and Engineering	2009 - 2010
5	M.Tech - Digital Electronics & Communication Systems	Electronics and Communication Systems	2009 - 2010

CRITERION II

TEACHING - LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

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

Publicity:

- Vardhaman College of Engineering follows rules by the strategy through APSCHE (Andhra Pradesh State Council of Higher Education) and SBTET (State Board of Technical Education and Training).
- College involves in centralized admission process (CAP) of Government of Andhra Pradesh. This ensures total transparency in admission process.
- Currently the ratio of students between Convener Quota (Category A) and Management (Category B) Quota is 70:30.
- Convener Quota students are selected through EAMCET, a common entrance test conducted by the University / Government where the administration procedure for Management Quota is filled by the College management adhering strictly to the guidelines stipulated by the State Government.
- College advertises the admission process under Management Quota in leading State & National level news paper, magazine, news channels & appropriate media, website, exhibitions & banners.
- College displays the merit list of admitted students under Management Quota on web site as well as on notice boards.

Transparency:

VCE adheres to the guidelines, rules stipulated by the state government, which inherently has transparency, access, equity and social justice through its quotas for various reservation categories.

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

As the Engineering admission process in the State is governed by SBTET (State Board of Technical Education and Training). College is involved in centralized admission process of State Government. College follows admission rules, regulations & guidelines set up by the State Government.

B.TECH:

Admission into first year of four year B.Tech degree programme of study in Engineering:

Eligibility:

A candidate seeking admission into the first year of four year B.Tech degree programme should have

- i) Passed either Intermediate Public Examination (I.P.E) conducted by the Board of Intermediate Education, Andhra Pradesh, with Mathematics, Physics and Chemistry as optional subjects or any equivalent examination recognized by Board of Intermediate Education, Andhra Pradesh or a Diploma in Engineering in the relevant branch conducted by the Board of Technical Education, Andhra Pradesh or equivalent Diploma recognized by Board of Technical Education for admission as per the guidelines of APSCHE.
- ii) Secured a rank in the EAMCET examination conducted by A.P. State Council for Higher Education for allotment of a seat by the Convener, EAMCET, for admission.

Admission Procedure:

Under Graduate Courses (B. Tech):

The candidates who have passed 10+2 or equivalent examination with Mathematics, Physics and Chemistry with 50% of marks are eligible for admission. The seats to be allotted in each Un-aided Non-Minority Professional Institution under these Rules for Admission of Candidates shall be classified as:

(1) Category A seats

(2) Category B seats

- (1) The Category A seats shall be 70% of sanctioned intake of seats in each course in Un-Aided Non-Minority Professional Institution, which shall be filled with eligible candidates on the basis of Rank obtained at EAMCET / EAMCET-AC
- (2) The Category B Seats shall be 30% of the total intake of seats in each course in respect of Un-Aided Non-Minority Professional Institutions, which shall be open for admission to all the eligible candidates on merit basis including candidates belonging to other States and Union Territories of India and NRIs / NRI Sponsored Candidates.
 - a) The NRI seats (not exceeding 15% of the sanctioned intake in each course) shall be filled on merit basis with NRI / NRI sponsored candidates who have passed the qualifying examination with not less than 50% of in the prescribed group subjects or Cumulative Grade Point Average (CGPA) equivalent to 5 on a scale of 10.
 - b) The remaining seats shall be filled on merit basis with candidates belonging to other States and Union territories who have secured rank at AIEEE and secured not less than 50 % of aggregate marks in the qualifying examination.
 - c) There after, if any seats still remain unfilled such seats may be filled on merit basis with candidates securing not less than 50% in the prescribed group subjects taken together in the qualification examination.

Post Graduate Courses (M. Tech):

70% of seats are filled by AP State Council for Higher Education through a state level Common Entrance Test PGECET. The candidates who qualify in the CET and pass the qualifying examination (B. Tech/BE/AIMIE/M. Sc/MCA etc. as per the eligibility) will be admitted through common personal counseling. The candidates having valid GATE scores will be given preference at the time of admission. The remaining 30% seats are filled by the management under "B" Category by the candidates who have passed the qualifying examination with 50% and above marks based on the merit out of the applications received.

Post Graduate Courses (MBA and MCA):

70% of seats are filled by AP State Council for Higher Education through a state level Common Entrance Test ICET. The candidates who qualify in the CET and pass the qualifying examination (any degree for MBA and degree with Mathematics as one of the subject either at UG level or at 10+2 level) will be admitted through common Web based/ personal counseling. The remaining 30% seats are filled by the management under "B" Category by the candidates who have passed the qualifying examination with 50% and above marks based on the merit out of the applications received.

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

Marks are the common criteria for admission. These admissions are done strictly according to the conditions laid down by affiliated University. There are more than 700 Colleges in the state and more than 300 affiliated to JNTUH. The institution, as compared to the other Colleges within the city/district/region/state, has the record of getting its seats filled at the earliest. The same is the case with the admission in Post Graduation programmes. VCE is preferred by the students which are indicated by better ranks of students taking admission in all disciplines. Currently the EAMCET ranks awarded with the intermediate marks with a ratio of 75:25.

S No.	UG / PG	Min marks for admission in to Convener seats	Min marks for admission in to B-category seats	Minimum Qualifications
1	UG(B.Tech)	50%	50%	Passed or appeared 10+2 examination
2	PG(M.Tech)	50% marks in group subjects	50%	Passed or appeared for the final year of B.E./ B.Tech./ AMIE
3	PG(MBA)	50%	50%	Passed recognized Bachelors Degree Examination of minimum three years duration
4	PG(MCA)	50%	50%	Passed recognized Bachelors Degree Examination of minimum three years duration

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

Yes, With respect to admission process for the government quota seats, the Andhra Pradesh Government norms to be followed. Hence the institution doesn't have a role in the admission process. For the management students, the Consortium of self- financing professional colleges in Andhra Pradesh norms are followed. It is pertinent to mention that the college being reputed and sought after institution only students having high percentage of marks are able to secure an admission.

The college verifies and review all the profiles of the students admitted annually. The institution has well planned, well defined and well designed mechanisms as far as reviewing the profiles and merits of the students. The administrative section regularly monitors and provides information to the academic heads for proper corrective measures. In particular the committee which is responsible for the admission procedure will monitor a particular section of students like Girls, villagers, or any specific community are found to be in less numbers in the admission lists. Then the committee tries to motivate those sections of students by providing them requisite abilities to join our institution. The activities of the students are closely monitored by assigning some faculty members as a group forming committee members. The students with a little bit of negative approach or disturbing elements are motivated by the faculty members with a counseling session so that they can be molded with a positive attitude and positive frame of mind. This type of activities in the institution can make the students to become an asset for the institution.

Outcome:

As a result of these activities in the last six years, the college has noticed a continuous growth of students in both academics and discipline. The students have learnt to energize their positive attitude to increase their potential into many constructive activities and got placed into renowned industries. Review of the admission process and the subsequent analysis of the student profile help in providing equal representation from all sections of the society.

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

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

SC/ST/OBC:

Students from SC/ST/OBC are allotted seats as per state government policies. Tuition Fees reimbursement, fees exemptions, and endowment benefits are also extended to these students in our institution as per the state government rules. These students are provide with some extra facilities provided by

the college management also. The institution continuously bestow their efforts to create awareness on the importance of higher studies i.e. education as a means empowerment bring a to change in the society. The faculty members of our institution visit the neighboring villages in order to promote the awareness of higher studies by counseling the students belong to the non creamy layers. The faculty members also explains the various benefits they are getting from the government according to the reservation policies, financial and academic facilities gained through the institution and state government.

Women:

For women, there is separate reservation policy of the state Government and University in admission. They will also compete with made a fair merit base with men. Over and above thus, the women are provided with 33 percent reservation. The women candidates are provided with equal opportunity. Separate hostel facilities are available for the women category. The institution also provides special orientation and counseling for the needy parents on the importance of women education and exclusive facilities provided for them in terms of incentives, security, protection and special reservation by the state government and College Committee.

Differently abled:

There is special reservation for the students who come into differently abled categories as per the UGC and state government norms. Their requirements and needs are given a higher importance with a special care and attention by the college authorities. The college provides them with special toilets facilities. The college ensures that all their classes are held in the ground floor only. The college also provides a special means of transport particularly for these students.

Economically Weaker Sections of the Society:

The Chairman and Principal of the institution is provided some special benefits and reservations for the benefit of the students who belong to economically weaker sections like the concession in fee, free books, free transport and special rewards which help them in their career.

Minority:

The institution has given reservations to the students belonging to minority community under the direction of Central Government, State Government and the university in which the college is affiliated. The College offers every possible help to the students belonging to this community in every aspect like scholarships and concession from the college funds and other resources.

Athletes and sports persons:

The students who participate in sports activities at regional or national level are given admissions based on their excellence in athletics or sports. The college offers them some concessions and scholarships.

At present the reservation quota is as follows:

Reservation Category	Quota (%)
SC	14
ST	7
OBC(A, B, C, D)	25
OBC-E	4
Disabled	1
NCC	1

Reservation Category	Quota (%)
CAP	1
Women	33

Reservation is ensured at all levels of admission namely UG and PG degrees. Even for NSS, NCC and defense category students, seats are reserved in each course. There is reservation for students belonging to differently disabled categories as per UGC notifications. The College under the direction from the Central Government, State Government offers scholarship to the students belonging to economically weaker sections.

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

Details of various programmes offered by the Institution during the last four years:

S. No.	Course	Branch	2009 - 2010			2010 - 2011			2011 - 2012			2012 - 2013		
			Intake	Admitted	Demand Ratio (%)	Intake	Admitted	Demand Ratio (%)	Intake	Admitted	Demand Ratio (%)	Intake	Admitted	Demand Ratio (%)
UNDER GRADUATE (UG): B.Tech														
1	B.Tech	CSE	120	95	79.16	120	120	100.00	120	119	99.16	180	174	96.66
2	B.Tech	IT	60	40	66.66	60	60	100.00	60	60	100.00	120	110	91.66
3	B.Tech	ECE	120	113	94.16	120	120	100.00	180	179	99.44	240	234	97.5
4	B.Tech	EEE	90	71	78.88	90	90	100.00	90	85	94.44	90	88	97.77
5	B.Tech	ME	90	81	90.00	90	90	100.00	90	90	100.00	90	89	98.88
6	B.Tech	AERO	60	49	81.66	60	52	86.66	60	44	73.33	60	45	75
7	B.Tech	CIVIL	60	48	80.00	60	60	100.00	60	58	96.66	60	60	100
POST GRADUATE (PG): M.Tech														
8	M.Tech	CSE	--	--	--	18	10	55.55	36	35	97.22	36	27	75
9	M.Tech	SE	--	--	--	18	9	5	18	15	83.33	18	11	61.11
10	M.Tech	DECS	--	--	--	36	19	52.77	36	34	94.44	36	25	69.44
11	M.Tech	WMC	--	--	--	18	12	66.66	18	15	83.33	18	13	72.22
12	M.Tech	ES	--	--	--	--	--	--	--	--	--	18	18	100
13	M.Tech	PEED	--	--	--	18	16	88.88	18	15	83.33	18	13	72.22
14	M.Tech	ED	--	--	--	--	--	--	--	--	--	18	07	38.88
OTHER POST GRADUATE COURSES														
15	MBA	--	--	--		60	55	91.66	60	53	88.33	60	41	68.33
16	MCA	--	60	49	81.66	60	37	61.66	60	43	71.66	--	--	--

The reasons for increase / decrease in the admissions are decided by the following:

- National and global employment scenario which is projected by industry and society survey.
- Trends for Post Graduate courses.
- Total number of seats available for admissions in the State.
- State of art in the related areas

2.2 Catering to Student Diversity

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

As per the education code and Govt. policies, the institution caters to the needs of differently-abled students (physical disability) by providing them with helpers where necessary such as helpers to write the answers in the examinations in case of visually challenged students by supporting another student of lower qualification as per taking permission from University. For the differently-abled students (physical disability), the classroom is allotted on the ground floor. Ramps and separate sanitary facilities are being provided. In some instances, the faculty gave extra coaching for a speech and hearing impaired student at their residence. We have instances of differently-abled students having successfully completed the course in our College.

- College identifies the needs of differently-abled students and provides
 - o Special designed toilets
 - o Lifts
 - o Wheel chair
 - o Ramp
- College makes the special arrangement for differently-abled students in the university examination.
- Additional library books are issued to these students to restrict their visits to the library.

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

Yes

The College organizes a compulsory two-day orientation programme for all students in batches, immediately after admission. The Principal welcomes and appraises the students about the mission, philosophy and objectives of the College. The distinctive features of the innovative and comprehensive scheme of Education are explained in detail. The Heads of respective departments explain the subject combinations available. A film on Vardhaman College of Engineering is also shown to them.

Students enter engineering colleges from three different school streams viz., State board (vernacular and English medium), CBSE and ICSE. Their level of knowledge in key subjects and their assessment in school also varies widely. So the gaps in the entry level due to the above are bridged before the commencement of the first year classes by conducting an orientation programme in the key subjects. In addition during the academic programme students requiring special attention in specific subjects are identified and extra coaching classes are conducted after the college working hours to improve their performance and confidence level.

The Institution is well aware of the needs of the students. The college acts as the stepping stone that helps the students to realize their ambitions. Any class contains a mix of intelligent and average students. The initial assessment of the needs of the students is made counseling and orientation programme to

assess the knowledge and skill needs of the students pertaining to the programme they have enrolled.

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

To bridge the knowledge gap of the enrolled students it is the duty of the HOD, Dept. of English, and the professor in-charge actively took part to impart the bridge course like spoken English, taking remedial classes and doubt clear classes for the weaker students and enable them to compete with the present competitive job environment market.

Many courses are conducted by the college to provide better education environment for students so that they can improve their knowledge and enhance their abilities. Enrichment Courses like Soft Skill, Tutorial classes, are already running in the college. Self Protection, Yoga classes are to be initiated very soon under add on courses. The institution in collaboration with Indian Society for Technical Education (ISTE) conducts subject-wise quiz tests and conducts guest lectures by eminent personalities for extra knowledge acquisition of the students.

Also the Institution conducts special 'Programming in 'C' Laboratory practice classes beyond the college hour to bridge the knowledge gap of the slow learners.

Bridge course: Bridge courses are being conducted for 15 days at the beginning of the semester by the Faculty.

Remedial courses: The College conducts remedial classes for the improvement of academically weaker students.

Add-on-courses: The College organizes seminars by the experts in respective subjects and soft skills.

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

To create awareness of equality in Students & Staff

- College provide equal opportunity to ladies & gents for all the activities & process which include administrative teaching, co - curricular, extra-curricular, sports, deputation to the courses, programs, higher studies, appointments, committees, placements etc.
- The reports of Proctorial meetings and Class Committees provide information about the problems of weaker students and other disadvantaged groups. Remedial and Tutorial Classes are held and assistance from classmates is arranged to help them.
- Some of the lectures are uploaded on the web to facilitate slow learners to learn at their own pace. Students are also provided facility to access web courses in the Hostels. Coaching classes are held for the students failing in any subject to prepare them for the remedial exams.
- College organizes special training programs on value and moral for teaching & non-teaching staff.
- College has code of conduct for staff & students.
- College arranges the special social activities to maintain good social environment in the College.

- College celebrates teachers and engineers day where student and teacher can interchange the role of each other.

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

- The College identifies advanced learners by their performance in admission tests, through Quizzes and Class tests under the continuous evaluation scheme and teacher-student interaction. The College offers a number of opportunities for the bright students to augment their talent and meet their learning needs.
- Students are encouraged to make research contributions in their major project at the UG and PG level and publish their results in journals and also present it at National and International Conferences.
- Close observation of student in projects, paper presentation, Technical Events etc.
- Organizing industrial visits and programs of professional bodies like [ISTE](#), [IEEE](#), [ACM](#), [ASME](#), [ASCE](#), [SAE](#), [SME](#), [CSI](#), [IETE](#) etc.
- Participation of students in value added courses, content beyond syllabi programs, Social welfare programs. Teacher Guardian interacts with students regularly and identifies their needs, the results of Electives and other subjects.
- The College organizes various competitions and an Annual Students Technical Symposium (Technolites) regularly and gives prizes and awards.
- MoUs and Collaboration: The MoUs with Industries and Universities in USA and India have provision for bright students and Faculty to interact them and bridge the gap between industry and academia.
- Scholarships - All Research Scholars in each department receive scholarships.
- Financial support is provided to students and faculty for participation in National and International Conferences.

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

- College carries out University result analysis for the different programs & it gets the information about academic performance of student at the risk of dropout.
- Internal evaluation tests of College also help to get the information about students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker students.
- Student Mentors conducts / interact regularly with student assigned to them and find out the academic performance of student and probable reasons for the same. He / she co-relate the result with the categories of the student viz. section of society, physically challenges, slow learners & economically weaker students.
- College conducts parent meets and collects the feedback about the drop out of different class of students.

College uses the data as follows.

Physical Challenged:

- College does the counseling of the physically challenged students. It tries to provide the solution to the particular demand of student which includes location, movement and any other special needs.
- College counsels about the special facilities and scholarships offered by government.
- College creates the awareness among the students about the employment opportunity and the higher studies.
- College attends to find inherent skills in the person & motivate the person to excel in the related areas.

Slow learner:

- College arranges special lecturers for slow learners.
- Special classes are conducting for the slow learners after the regular class work hours.
- Teacher repeatedly teaches the content as per requirement of slow learners.
- Teacher counsels to parents regarding improvement in the performance of their ward.
- Teacher prepares specially designed notes for slow learners to understand the content easily.
- Attempts are made by the teachers to teach them individually.
- Teacher guide slow learners for specially designed projects, seminar & paper presentation.
- Specially developed question banks and assignments are made available to slow learners.
- Sincere slow learners are awarded grace marks in term work to motivate and appreciate their efforts.

Economically Weaker Section:

- College implements earn and learn scheme of JNT University, Hyderabad.
- College provides information about government aids and scholarship etc.
- College provides partial / full concession in fees to few deserving candidate.

Disadvantaged sections of society:

- Fee weavers scheme is provided.
- SC/ST/OBC/minority students are given benefits of reservations in admission & scholarship as per government norms.

2.3 Teaching - Learning Process

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

The process as follows:

- Normally academic year starts in July of every year.
- The concerned department conducts the meetings of faculty in April and discusses the syllabus of the program and calls the subject preferences from the faculty. Using this HOD distributes the load. Also HOD along with staff prepares the academic calendar of the department which is in concurrence with the University calendar.
- The faculty prepares course file which includes detail work plan, Notes and other study material, experimental write ups, previous year University question papers, assignments, e- learning material etc.
- The file is evaluated by concerned HOD as well as Principal by 15 May.
- The students are informed about time table and academic calendar well in advance.
- The students and other stake holder, feedbacks are collected periodically when teaching is in process and concerned faculty uses the same to meet the requirements.
- College conducts Unit Tests in the term. It gives feedback to students and parents about the performance. Teacher guardian councils the students about the academic performance.
- College organizes co curricular and extracurricular activities to supplement the curriculum.
- College carries out result analysis and gives the information to Internal Quality Assurance Cell (IQAC) and seeks the guidelines from it for further improvement.

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

College has constituted the Internal Quality Assurance Cell (IQAC). It contributes as follows:

- Every month, IQAC gets the information from College, about the academics coverage, evaluation results, Co Curricular and extracurricular activities organized, any special activities carried out, research activities, students and other stake holder feedback about academics and administrative processes.
- Using this information, IQAC takes review of existing teaching learning process and related infrastructure. If required it organizes meetings with Principal, HODs and management nominees.
- This enables IQAC to suggest improvement in teaching learning process.
- IQAC also takes the review of University, AICTE and DTE guidelines about teaching learning. It also interact with renowned research Colleges and get the best practices and shares the same with students and faculty members.
- It also regularly reviews novel teaching learning methods like active and collaborative learning and takes efforts to implement the same.
- IQAC annually submits detailed report on teaching learning and suggests the improvement for the same.

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

The innovative features of novel Educational scheme are briefly given below:

- Advance information about topics to be taught in the next class so that the students can come prepared for active discussion with teachers.
- Continuous assessment with compulsory components of quizzes, assignments, class tests, Tutorials, Seminar-cum-group discussions, institutional visits and field trips.
- Exhaustive question banks are provided to students in each course that help students to assimilate knowledge acquired.
- Emphasis on research-based projects both at the PG and UG levels also enables them to interact with research scholars and develop a research perspective.
- The innovative compulsory core courses ensure imbibing the right values.
- Web based lessons are made available to all students to learn the topic at their convenient time and at their pace.
- Easy access to Computers with Wi-Fi and internet connectivity help develop habits of self learning and life long learning in students.
- The academic ambience and contact with academicians is conducive to develop right attitudes in the receptive young minds.

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

- Along with the course the current problem associated with that particular topic of study will be normally explained to the students to make them to think towards the solution for that particular problem.
- Once the student is willing to take up that scientific issue then brainstorming discussion with the faculty member of that area will be encouraged. This makes the student to think, apply his creativity and scientific temper towards particular scientific problem which transforms the student into life-long learners and innovators.
- Programmes from EDUSAT and EKLAVYA and specialized lecture given by IIT faculty and experts from the industry expose the students the current developments and areas of research which kindles their creative abilities. This has led our students to innovative projects and achievements.
- College organizes the events such as paper presentation, Software development competitions, Problem solving competitions, Poster competition for develop creativity and critical thinking among the students.
- College also encourages and guides students to participate in the national competitions organized by other Colleges and Universities.
- College invites eminent scientists, entrepreneurs and industry persons and the personalities share their success stories with students.

- College encourages technical writing .Students write scientific articles in the leading news paper.
- College students are involved in industry sponsored projects and research projects which help to make them lifelong learners and innovators.
- Alumni meetings are arranged once in a year. The meeting provides the students to interact and learn from the successful industrialist and entrepreneurs. They also motivate the students to excel in their future endeavour.

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

Efforts are made to maximize the use of such aids to improve the learning experience by the following means:

- Open Education Resources: Open Education Resources of a large number of courses are uploaded on the College Web portal, 'vardhaman.org' and available free to anyone.
- College provides e-book, e-tutorials, and application notes by industry such as Intel, HP and Microsoft etc to the students.
- College made available the MIT freeware, IGATE journals, free e-journals of AICTE & online journals, ASME, Science Direct to faculty members.
- College sponsored the faculty for membership of professional societies. The literature of these societies is made available to the students.
- Faculty provides online tutorials, notes, study material to the students.
- NPTEL lectures are made available to the students.
- College gives important academic tips on the mobile of the students.
- Computers with internet facility in all departments.
- Use of multi-media projectors, overhead projectors.
- Open Source Lab.
- Use of power point presentation.
- Language laboratory

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

- College organizes expert lectures, seminar, conference, workshop, summer and winter school to expose student and faculty to advance level of knowledge.
- College deputed the faculty for continuous learning programs, academic programs, Conferences, Workshops etc. College takes faculty feedback of such programmes and considers the same while planning the next event.
- College organizes programs on applications like advanced circuit analysis and computation for advance learner.

- College organizes the paper presentation, project computations, and expert tutorials.
- College has the students' chapters of professional bodies like IEEE, ISTE, ASME, TSI, SAE and ACM which organizes the events to expose the students for advanced level of technology.
- Encouragement to the faculty is given to publish paper in the refereed journals and International Conferences.

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

The Tutorial System takes care of these aspects

- Academic: Slow learners are identified and are given special care. Advanced learn as are directed to the library.
- Personal: Some of the rural students lacking confidence, having inferiority complex are dealt with and confidence is infused .They are made to walk along with the rest of the students to build up the zeal.
- Psycho-social: Students with Tamil medium background are advised to work in the Language Lab after college hours. Needy students are given financial assistance.
- Tutor: For individual faculty 20 students have been allotted, who are responsible for each of the activities carried out by the student. One tutorial hour per week for the students; three tutorial meetings are conducted by the principal every semester.
- All the students get the academic and personal guidance from the concerned Teacher guardian.
- The training & placement department do professional counseling of the students (about 350 Students per year).
- NSS activity also gives the social ethical awareness among student (about 300 students per year). It also gives training for psycho-social support.
- The personality development programs are organized for about 400 students per year.
- HOD's also counsels the students and give them advice time to time.
- The class committee meetings which are organized for each class, have proven to be an effective channel for the students to express their views and difficulties directly to the Heads of Department. This pre-empts most of the psycho-sociological problems of the students.

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

The dedicated faculty members of the college aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. They continuously do research to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- Computers are used for teaching purposes and internet facility is available to students and faculty.

- SMART class rooms, OHPs, LCDs, videos etc. are used for teaching purposes.
- Online availability of IEEE journals in the intranet.
- Good collections of recently published books in library.
- Well equipped Language laboratories for English to improve the communication is available
- Well structured lesson plans are prepared/revised for all theory and practical courses on a period to period basis, scrutinized by HODs and made available in the website for students access.
- Teachers are encouraged to publish in Journals and present papers in Seminars and Conferences.
- Teachers are deputed with full financial support for attending Workshops/ Conferences/ FDPs.
- Research and R & D are promoted and encouraged and efforts are made to obtain sponsored R & D and consultancy projects.
- The teachers circulate tutorial problems, assignments, lecture notes and other relevant materials to the students.
- Formation of different groups among the students and encouraging peer learning, which help the students who are .academically less performing.
- The students are given many tasks such as group assignment completion, problem solving and mini projects. These activities help the students to learn on their own about the developments which are occurred in their field of study.
- Faculty prepares question bank for the students.
- Faculty uses collaborative learning and active learning.
- For conceptual understanding of the subject, special projects are given to students.
- Faculty make special laboratory set ups for clearly understanding the principles of the subjects.
- College deutes the faculty for teaching learning programs like WIPRO Mission 10X, MTAB Training, CADENCE, Infosys Academic leadership, IUCEE Teacher Academy.
- College makes arrangement to telecast special Webinars on the related topics.
- The impact of extensive use of electronic aids resulted in better presentations by students in national and international seminars leading to several awards. The web based lessons have made a tremendous impact on teaching-learning environment.

The impact of such innovative practices is that the students are exposed to new modern methods of teaching and more and better understanding of the knowledge transferred to them within the allotted time. It helps to assess and improve the teaching-learning process that happens from the formative to summative period.

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

- Library and Information centre, is one of the best engineering college libraries in the state. The College has a spacious CENTRAL LIBRARY in an independent building with an area of 30,000 sft. spread over two floors. First Floor is accommodating Circulation Books, book bank Books, New Papers, Back Volumes of the Periodicals. Second floor is accommodating Reference Books, Current Periodicals, etc. It is having a modern infrastructure with a reading capacity of 500 students.
- It has the collection of 53,722 volumes of books as on 26 October, 2013. It has subscribed to more than 650 online journals of IEEE, ACM, Springer, ASME, ASCE & J-Gate and it is subscribing more than 156 Indian Journals & Magazines in print.
- Digital library with 40 systems to access E-journals, E-books, E-learning, Multimedia Center and photocopying are made available for the convenience of the users. N-LIST E resources (Through INFLIBNET), NPTEL facility (National Programme on Technology Enhanced Learning) to access video lectures and Membership of DELNET (Inter library loan) for resource sharing. Library is fully computerized with bar-coding system.
- Library & Information Centre provides uncompromising information and intellectual requirements to its students and faculty with user-friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that resources are easily available in Reference Section and Stack Section as well.

E-Learning Resource Center

- ❖ E-Journals
- ❖ IEEE (College of Electrical and Electronics Engineers)
- ❖ ELSEVIER
- ❖ SPRINGER
- ❖ MCGRAW HILL
- ❖ ASME (American Society for Mechanical Engineers)
- ❖ ASCE (American Society for Civil Engineers)
- ❖ ASTM (American Society for Testing and Materials)
- ❖ J-Gate
- ❖ ACM (Association for Computing Machinery)
- ❖ Proquest
- ❖ Nature
- ❖ Taylor & Francis Online Journals
- ❖ Wiley online library
- ❖ Free Access Journals

DELNET / Inter Library Loan:

Library is a member of Developing Library Network (DELNET), which provides services like browsing of Union Catalogues, Inter Library Loan and Document Delivery Services. Interested Readers can access the Catalogues of other Libraries through DELNET and request the required books/documents to be procured from these libraries on loan for a limited period.

Developing Library Network (DELNET) is a network of 900 institutions and access is being given to more than 50 lakh records through online systems. Delnet has been actively engaged with the compilation of various union catalogues of the resources available in member libraries. It has already created the union catalogue of books, union list of current periodicals, CD ROM database. DELNET provides an array of facilities including E mail to its member libraries including both institutional and associate institutional members. It has indeed been a big leap towards the modernization of libraries in India.

DELNET is offering inter- Library loan & Document delivery services to its member libraries on request in delivering of books and journals through courier service.

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

No. The College does not normally face any problem in completing the curriculum. The College follows a continuous evaluation system, which has component evaluations that include two midterm examinations, two assignment tests and tutorials evenly spread over the semester in a fixed time frame. The amount of course coverage is also stipulated. This enables the teachers and students to ascertain and maintain the pace of course coverage as they get early feedback for any slippage. They can take corrective measures well in time. All faculties are required to maintain a course file, giving information of the topics covered in each lecture. This is maintained on the Attendance Register and the Heads of Department also check the coverage. Feedbacks from various mechanisms also cover up lapses if any.

This is mainly due to the availability of able faculty members and their meticulous planning. All the departments slice the syllabus for each semester in to manageable units; plan beforehand how many units are to cover in the allotted hour. Depending upon the needs of the batch, extra classes are arranged. Hence, completing the curriculum within the timeframe has never been a problem.

2.3.11 How does the College monitor and evaluate the quality of teaching learning? Teacher evaluation by students and alumni is through the following mechanisms:

- Individual class teacher feedbacks
- Suggestion Boxes kept outside the Principal's offices
- Class Committees
- Proctorial Committees
- IQAC surveys
- Alumni surveys
- External expert End-Semester Exam report

Feedback is shared with Head, Deans and Principal and necessary action is taken.

Quality of Teaching:

It is monitored through feedback from the students every semester. The Principal and HOD go on rounds and randomly choose a class to monitor the teaching methodology by attending the class. Teaching methods are discussed at department meetings.

Teaching Methods:

Training programmes are organized for effective communication skills. Re-source persons are called to reorient the staff to new teaching methods.

Classroom environment:

Well-suited ambience for learning. Learning activities and a variety of teaching methodology invigorate the class room environment is made lively by giving important to teacher-student interaction and peer-group interaction.

Student Performance:

The performance is monitored through Continuous Internal Assessment (CIA), Tests, Seminars, PowerPoint presentations, assignments. There is a marked improvement from the entry level in student performance by way of academic knowledge, application skills and soft skills.

2.4 Teacher Quality

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

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers: 230							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	24	01	--	--	--	--	--
M.Phil.	--	--	02	01	--	--	--
PG	03	01	27	13	90	66	--
UG	--	--	--	--	10	01	--
Temporary teachers: NIL							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--
Part-time teachers: NIL							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--

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

College finds scarcity of qualified staff due to new programs as well as growing program.

- The Management and expert committee conduct interviews and select candidate as per the AICTE norms.
- Before the final appointment a demonstration class on the modern teaching learning area by the new faculty is always followed since last three years.
- In some cases the institution appoint senior guest faculty to overcome the scarcity in the case of new course introduced.
- College invites the senior and experienced persons from research organizations, industries and academic Colleges and organizes their resource/expert lectures. As per availability these persons regularly conducts lectures and help to cover syllabus.
- College appoints adjunct and emeritus professors.
- In all the new courses added and to teach subjects of emerging areas, the college has always strived to employ persons of repute with domain expertise.
- Also the institution encourages young faculty members to pursue research through QIP and/or Part time external registration for Phd and offers incentive for Phd holders to retain them in the institution.
- Encouragement is also given for continuing research by way of applying for funded projects and getting the grants from various research agencies.
- Faculty exchange Programme by collaborating with Colleges of repute also helps in establishing knowledge partnerships.
- Further faculty have been sponsored to attend FDP/ STTP / Workshops regularly to enhance the knowledge and skills in the emerging areas.

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

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty nominated			
	2013-2012	2012-2011	2011-2010	2010-2009
Refresher courses	11	18	13	04
Orientation Programmes	01	01	01	01
Staff training conducted by the university	06	05	07	03

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

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

❖ Teaching learning Methods/approaches

- * Orientation Programme at the onset of academic year.
- * Pedagogical techniques for new faculty by experienced Professors.
- * Training in the use of modern teaching aids like LCD Projectors, smart class room devices etc.,
- * Lesson plan, University calendar is being followed for the teaching learning method.

❖ Handling New Curriculum

- * Deputing Faculty members to FDP Programmes conducted by JNT University and its affiliated Colleges.
- * Through brainstorming sessions so free exchange of ideas are possible which include both experience faculty members and novices.
- * As per the curriculum of the University the institution strictly follows the guidelines.

❖ Content / Knowledge Management

- * Use of multimedia Contents
- * Employment of modern Pedagogical aids such as Power Points, LCD projectors, Laptop and OHP's.
- * Learning through demonstration and experimentation.
- * In the area of content / knowledge management system, our faculty members are capturing value, knowledge and understanding of corporate information, using IT system, in order to maintain re-used and re-deploy that knowledge.

❖ Selection, development and use of enrichment materials

- * Access to top class learning materials developed by institutions of higher learning such as MITs, IITs etc.
- * User friendly notes by other learning centres and own notes to enrich the learning process by the students.
- * Employment of animation tools to ingrain the concepts into students for effective learning.
- * For the enrichment program, the institution select the experienced faculty or consultancy organization to impart and develop the enrichment course in the institution to reduce the gap through bridge course.

❖ Assessment

- * The assessment of student and teachers are regular practice in the institution for the day to day development.
- * Delivery of pep talk lecture that will be assessed by colleagues.
- * Feedback through test at the end of the training session.

❖ Cross cutting issues

- * Motivation and arousing curiosity are given predominance.
- * Enhancing of retention rate through periodic review process.
- * Immediate application of concepts learned to the classroom environment.

- * As per the cross cutting issue, the institution will emphasis on the production of energy crops and associated issues like Water management, soil management, soil productivity, bio-diversity etc. We will also suggest to create awareness not to consider only on the other organic waste but to put emphasizes for the development of bio energy production e.g. farm animal waste, crop residues organic liquid waste, municipal solid waste etc.

❖ Audio visual aids/multimedia

- * Training imparted in the use of audio visual aids/ multimedia devices.
- * Encouragement of the constant use of audio visual aids/multimedia in the delivery of class lectures.
- * The institution introduced the audio visual Aid, LCD projector, for modern teaching learning process.

❖ OER's (Other Educational Resources)

- * The other OER's (Other Educational Resources) are online library software, Automation of Accounts, Automation of Establishment, Research journals, Placement Cell, Career Counseling, well equipped IT lab, etc.
- * The other Educational resources like web based learning hand-books, simulation/ physical models are also encouraged to be utilized for lecture delivery.

❖ Teaching learning material development selection and use

- * The faculty members and the HODs always help to provide the notes, softcopy of teaching learning materials, selection Question bank as and when required.
- * Preparation of laboratory manuals as per ISO standards.
- * Step by step instruction to make use of application software.
- * Encouragement to write books.
- * Encouragement to develop application notes.

c) Percentage of faculty

- * Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- * participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- * presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

The percentage of the faculty has participated in the following for last four years:

Name of the Department	% of Faculty		
	Invited as resource person in Workshops / Seminars / Conferences	Participated in external Workshops/ Seminars/ Conferences	Presented papers In Workshops/ Seminars/ Conferences
CSE	8	60	65
IT	3	20	32
ECE	9	65	70
EEE	4	55	48
MECH	8	60	76
AERO	2	20	15
CIVIL	2	10	7

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

To recharge the Teacher the College has following policies:

- To facilitate smooth progress and recharge teachers. The college takes initiative in availing grants/ funds, sanctioning training program and leaves to scholars, seeking experts advice and support, support in terms of technology and information needs, adequate infrastructure & human resources.
- College gives incentives for Teachers for the research grant grabbed from the funding agencies.
- The faculty members are allowed to acquire higher qualifications. Faculty possessing UG qualifications are encouraged to pursue their PG to comply with the AICTE rules and regulation.
- College pays the membership fees of select faculty for the professional memberships of organizations like IEEE, ACM and ASME etc.
- The college permits the faculty members to participate in national/international conferences/seminars. In the past 4 years many Faculty members were encouraged to participate in International Conferences held abroad.
- The faculty members are encouraged to organize national/international conferences and the university supports to the maximum extent possible.
- The institution extends full support for the professional development of the faculty.
- Application for research grants for major and minor projects are encouraged, recommended and forwarded.
- The institution also conducts number of seminars, workshops & special lectures for the benefit of faculties.
- The institution provides duty leave to faculty for participating and presenting papers at national and international conferences.
- Incentives for possessing Ph.D qualification and sponsorship for pursuing Ph.D in full time or part time mode.
- Less work load for faculty pursuing Ph.D and innovative research.
- Facilitation to pursue research work by procuring necessary equipment, software etc.
- Incentives to the faculty based on the university results in recognition of their hard and dedicated efforts.
- Cash award for best presentation on research Publications.

The Incentives are:

- An amount of **Rs 10,000/-** is to be awarded to the member having a technical paper published in an referred International Journal (Impact factor of 1)
- An amount of **Rs.3,000/-** is to be awarded to the member having a technical paper published in a referred National Journal
- Award of **Rs. 2,000/-** for any faculty member who has published a book in his/her chosen field of specialization.
- A committee consisting of the Principal and the HODs will select two teachers every year based on the performance appraisal for the “Best Teacher Award” who will be honored on 5 September (Teacher’s Day). The award would carry a cash prize of **Rs. 5,000/-** each and a citation.

- Travel grant of **Rs. 50,000/-** for attending International conferences outside India.
- Introduce a cash award of **Rs. 1,000/-** each to all those faculty members, who achieve 95% and above pass in any of the theory subjects handled by them.
- Introduced a cash award of **Rs. 50,000/-** for National Level product patent and **Rs. 1,00,000/-** for International Level product patent.

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

Many faculty members have been recognized for excellence in teaching during the last five years with awards and recognitions that include membership of academic bodies, as resource persons, inviting for talks etc.

Every year College gives best teacher award to the faculty for excellence in academics.

Senior professors are invited as:

- Member of Boards of Studies
- Member of Academic Audit and Research Committee
- Adjudicator of Ph.D theses
- to chair sessions in seminars and to act as resource persons

The Institution provides the following:

- The faculty members are encouraged to participate in the conference and workshops both at national and international level.
- They are given OD for participation and also TA/DA.
- Faculty provided with PC and internet facility in the department.
- Wi-Fi connection in the campus for all access to large number of on-line journals.
- The academic ambience in the campus contributes largely to more such achievements.

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

Yes, College evaluates teacher by taking inputs from students and external peers.

- The students gives the evaluation of the concerned teachers in the specially designed format.
- The teacher gives annual presentation about the academic activities to the external peers. The external peers who are industry persons, academicians and scientists also evaluates the teacher.
- The teacher gets constructive suggestion about their teaching style, participative teaching learning, use of innovative methods for teaching, development of labs, projects and papers, research efforts from the peer which help him/her for improving the quality of teaching learning.

The format is as follows:

EVALUATION OF THE TEACHER BY STUDENTS

Academic Year: _____

Class: _____

Branch: _____

Name of the Teacher: _____

Subject: _____

Dear Student,

Your frank and unbiased evaluation of the Teacher/Teaching helps the Teacher as well as the Department to improve Teaching-Learning Process. Given below are some points/aspects for evaluation. Tick (✓) appropriate grade in the box.

(E - Excellent, VG - Very Good, G - Good, F - Fair, P - Poor)

I	Planning and Organization:	E	VG	G	F	P
1.	Teacher comes to the class on time					
2.	Teaching is well planned					
3.	Aims / Objectives made clear					
4.	Subject matter organized in logical sequence					
5.	Teacher comes well prepared in the subject					
II	Presentation / Communication:					
1.	Teacher speaks clearly and audibly					
2.	Teacher writes and draws legibly					
3.	Teacher provides examples of concepts / principles, explanations are done effectively					
4.	Teacher's pace and levels of instruction are suited to the students					
5.	Teacher offers assistance and counselling to the needy students					
III	Student Participation:					
1.	Teacher asks questions to promote interaction and effective thinking					
2.	Teacher encourages questioning / raising doubts by students and answer them well					
3.	Teacher ensures learner activity and problem-solving ability in the class					
4.	Teacher encourages, compliments and praises originality and creativity displayed by the students					
5.	Teacher is courteous and impartial in dealing with the students					
IV	Class Management / Assessment of the Students:					
1.	Teacher encourages classes regularly and maintains discipline					
2.	Teacher covers the syllabus completely at appropriate pace					
3.	Teacher's tolerance to the suggestions by the students					
4.	Teacher's evaluation of sessional exam answer scripts, lab records etc. is fair and impartial					
5.	Teacher is prompt in valuing and returning the answer scripts providing feedback on performance					
V	Overall Rating:					
	Overall rating of the Teacher					
VI	Suggestions (if any)					
	(Please write overleaf, if space is not sufficient)					

- Lecture classes are monitored by senior Professors, Principal and the HoD of the Department. They give constructive comments to improve the quality of teaching and the teaching- learning process.
- Counseling by the respective HoD for those faculty member who have secured low scores and negative comments, if any, in the feedback. This motivates them to improve their skills and abilities.
- If required training /orientation programmes are conducted by professional experts to hone the skills of the faculty members in the nuances of teaching, thus improving the efficacy of teaching-learning process.

2.5 Evaluation Process and Reforms

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

The regulations, curricula and syllabi of all the programmes offered by the college are available in the college website. The regulations contain the details of the evaluation processes. Further, the office of the Controller of Examinations has prepared a manual on the conduct of examinations and copies are available to all departments. The fresher informed of the system of periodical tests and end-of-the-semester retests.

The evaluation process is instrumental to a student's personal and career development. Students appreciate an assessment of their academic performance and welcome constructive feedback. The internal assessment marks are awarded on the basis of students performance in the two internal tests conducted in each semester. We also follow the continuous evaluation methods in the classroom which is based on interaction in class, presentation, seminars, performance in assignments and practical.

To the Students: The students are given the College programme schedule containing the timetable, academic calendar, internal test schedule, list of holidays etc. at the beginning of the semester. In the orientation programme conducted in the beginning of the odd semesters, faculty briefs about the examination and evaluation methods followed in the respective disciplines to the students. As the students are aware that they are being evaluated continuously, good attendance and participation in the class is ensured. The internal assessment results are displayed on the departmental notice boards well ahead of the deadline for sending the same to the University. The college automation facility provided by the management through campus software enables the students to access the results. Copies of the results announced by the University are distributed to the class teachers through the Principal. The class teachers in turn convey the results to the students

To the Faculty: The evaluation methods are discussed in detail in the staff meetings and the final decision taken is conveyed through circulars.

To the Parents and other Stakeholders: The parents are briefed about the evaluation methods followed in each discipline during the inaugural Parent Teacher Meet conducted every year.

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

- The college department evaluation processes are automated through intranet facilities. The faculty can enter attendance and marks of the students periodically and also can obtain the final results of the examination.
- The credit system for each course is introduced for UG and PG degrees.
- COE functions with the facility to schedule and to appoint examiners for the practical examinations and also to schedule and appoint examiners for central valuation/reevaluation.

Further, it is proposed to acquire/generate online the following information.

- Registration of elective subjects
- Examination absentees statement
- Registration for reevaluation
- Registration for review
- Generation of Hall Ticket, nominal roll (Register number and subjects registered) and attendance for the end semester examinations.
- Electronic Question bank is prepared for most of the common subjects and is utilized for electronically generating the question paper.

Evaluation Reforms by University and Self-mode (by Institution):

As an affiliated College, our principal/senior faculty members attend and participate in all the meetings conducted by the University as members of BOS. Their suggestions have contributed to the following evaluation reforms introduced by the University.

The University constitutes a board of examiners separately for central valuation of each category (for various sciences, for humanities and for various engineering and technology disciplines) consisting of a Chairman, Chief Examiners and Examiners.

The University also provides for revaluation of the answer scripts as well as supplying Xerox copies of the evaluated answer scripts. On the recommendations of HOD and Principal, the answer scripts of University examinations are revalued by the University. In case the student is not satisfied with the outcome of the revaluation or the marks obtained by him, university has a provision to go in for a CHALLENGE. However the marks obtained by the student will be the best of all the above.

The institution continuously reviews the evaluation process done internally and necessary changes as and when applicable/ required are implemented. Though only three internal assessments is required as per the affiliating university, the college has been experimenting the evaluation process with daily test / five continuous test and a three hour model exam as per the end semester examination conducted by the university. In addition to the above, regular assignments are also part of the evaluation process.

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

University Evaluation:

- Jawaharlal Nehru Technological University, Hyderabad (JNTUH) ensures the examination process that it is going on adhering the JNTUH norms and principles by the external supervisors of examination.
- Further the supervisors are changing within a regular interval of number of examinations from the current semester examination to ensure impartial supervision.

College Examination:

- Conducting a HOD meeting by the principal before every semester examination regarding the smooth conduction/implementation of examination rules, where every HOD give their suggestion on various aspects of examination and evaluation basing upon the previous examinations. This enables the further improvement in the subsequent examination and evaluation.
- Conducting a general meeting of all faculty members by the principal before every semester examination regarding the smooth conduction/implementation of examination rules, where every faculty members are encouraged to give their suggestion on various aspects of examination and evaluation basing upon the previous examinations. Then the unanimous suggestions are implemented for the subsequent examinations and the evaluations.

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

Formative evaluation process:

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

- Assignments
- Presentations
- Industrial visits
- Class interactions
- Group discussions/Viva-voce
- Workshops/Seminars
- Research activities
- Projects
- Written and practical tests
- Organizing functions
- Curriculum based training
- Social activities
- Inter college competitions
- Overall attendance and conduct during the session

Summative evaluation process:

The goal of summative assessment is to evaluate student learning at the end of an instructional unit by comparing it against some standard or benchmark. Summative assessments are often high stakes, which means that they have a high point value.

Summative Assessment takes place at the end of the academic session which is conducted by the college during the terminal test at the end of the semester. Even if some students don't perform well or clear the eligibility condition, then an extra chance is given to the student for his/her personal verification.

This process helps the students to gain confidence and to achieve good results.

The university conducts a summative evaluation at the end of each semester through the following:

- Written Exams
- Practical Exams
- Viva voce
- Project work

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

Academic performance, regularity, participation in co-curricular and extra-curricular activities; physical and emotional well-being - all these factors play a vital role in the progress of the student's. The following monitoring methods are adopted by the institutions:

- **Academic monitoring:** The academic performance is monitored by observing the students performance in the classrooms through discussions, interactions, presentations, seminars, and assignments. Monitoring is also done by observing their performance in the internal examinations, and final semester examinations taking both theoretical and practical aspects into consideration.
- **Regularity:** The regularity of the students is monitored by recording presence / absence in every class.
- **Co-curricular and extra-curricular activity monitoring:** After identifying their areas of interest in co-curricular and extra-curricular activities, the students participation/non participation is recorded.
- **Monitoring of physical and emotional well-being:** All the staff continually involve in students physical and emotional well-being through continuous counseling and offer help wherever necessary.
- The students are guided to progress in all these factors by constant encouragement. Any shortcomings in any one or all the above factors are adequately addressed.

- The students and parents are communicated about the progress through display on the Campus website. Parents and local guardians are invited to the college and discuss the necessary action to be implemented for the progress of the student. Communications of the student's performance to the parents are through the following:
 - o Display on the notice board
 - o Through periodic performance reports to the parents
 - o Parents Teachers Meet
 - o Online information

The following table explicitly indicates the analysis of the students pass % for the last five years and the achievements (university ranks) by the students.

Academic Results:

UG (B. Tech)

Ten batches of B. Tech students have passed out from the College. The results of all these batches have been very good. The following figures depict the analysis of results of the latest five batches passed out in the years 2008, 2009, 2010, 2011 and 2012.

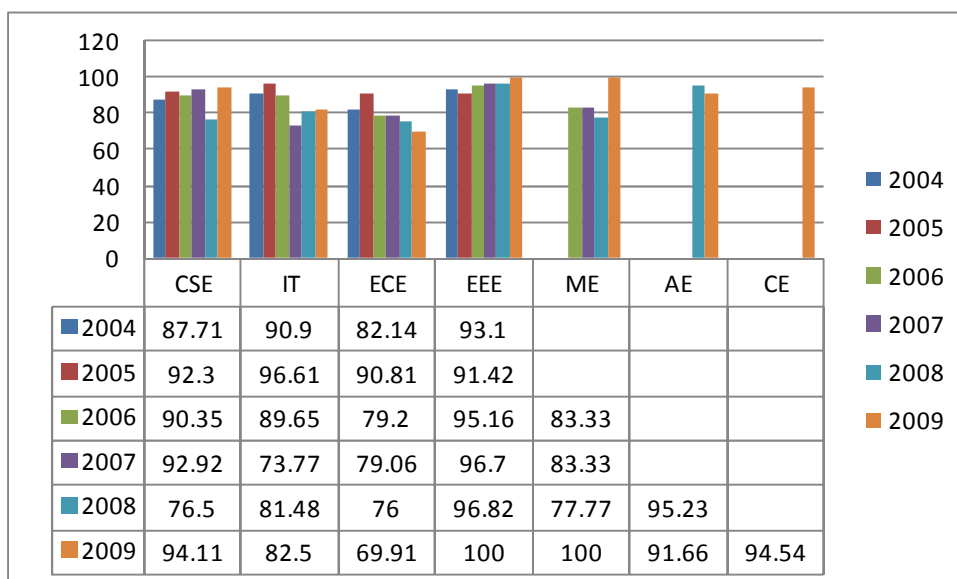
2004 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	60	57	50	16	23	11	87.71
2	IT	55	55	50	08	23	19	90.90
3	ECE	56	56	46	16	19	11	82.14
4	EEE	60	58	54	11	25	18	93.10
5	ME	--	--	--	--	--	--	--
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--
2005 ADMITTED BATCH								
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	61	52	48	15	17	15	92.30
2	IT	59	59	57	08	23	19	96.61
3	ECE	100	98	89	72	12	5	90.81
4	EEE	42	35	32	00	20	12	91.42
5	ME	--	--	--	--	--	--	--
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--
2006 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	122	114	103	33	43	26	90.35
2	IT	60	58	52	22	24	06	89.65
3	ECE	125	125	99	76	14	9	79.20
4	EEE	62	62	59	12	31	16	95.16
5	ME	48	48	40	28	09	03	83.33
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--

2007 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	121	113	105	36	51	18	92.92
2	IT	59	59	45	14	26	05	73.77
3	ECE	129	129	102	32	49	21	79.06
4	EEE	62	62	60	14	32	14	96.7
5	ME	54	54	50	28	09	03	83.33
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--

2008 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	120	108	83	35	43	5	76.5
2	IT	60	54	44	10	30	04	81.48
3	ECE	136	125	95	32	58	5	76.0
4	EEE	63	63	61	37	24	0	96.82
5	ME	45	45	35	21	12	2	77.77
6	AE	21	21	20	9	11	0	95.23
7	CE	-	-	-	-	-	-	-

2009 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	104	102	96	47	36	13	94.11
2	IT	40	41	40	33	07	--	82.50
3	ECE	113	113	79	62	17	--	69.91
4	EEE	71	78	78	45	26	07	100
5	ME	88	88	88	71	17	--	100
6	AE	49	48	44	41	03	--	91.66
7	CE	56	55	52	31	21	--	94.54

SUCCESS RATE OF THE STUDENTS IN EXAMINATIONS



PG (M. TECH, MBA & MCA)

2006 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	55	55	50	10	40	90.90
2	MCA	60	54	51	40	11	94.44
M. TECH							
3	DECS	--	--	--	--	--	--
4	WMC	14	13	9	6	3	69.23
5	CSE	--	--	--	--	--	--
6	SE	--	--	--	--	--	--
7	PEED	--	--	--	--	--	--
2007 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	55	55	48	18	30	87.27
2	MCA	60	54	53	42	11	98.14
M. TECH							
3	DECS	--	--	--	--	--	--
4	WMC	12	12	11	09	02	91.67
5	CSE	--	--	--	--	--	--
6	SE	--	--	--	--	--	--
7	PEED	--	--	--	--	--	--
2008 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	60	60	56	22	34	93.33
2	MCA	59	58	57	54	3	98.27
M. TECH							
3	DECS	--	--	--	--	--	--
4	WMC	16	16	14	5	9	87.5
5	CSE	18	18	15	07	07	83.33
6	SE	--	--	--	--	--	--
7	PEED	18	17	16	11	05	94.11

2009 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	49	48	41	18	23	87.23
2	MCA	40	37	35	25	10	94.59
M.TECH							
3	DECS	16	15	14	5	9	93.3
4	WMC	13	13	12	7	5	92.36
5	CSE	16	16	14	09	05	87.50
6	SE	17	16	16	12	04	100
7	PEED	18	18	18	14	04	100
2010 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	54	53	50	15	35	94.33
2	MCA	38	38	37	24	13	97.37
M.TECH							
3	DECS	19	19	14	7	7	73.68
4	WMC	12	11	6	1	4	54.54
5	CSE	10	10	8	5	3	80.00
6	SE	8	8	3	2	1	37.00
7	PEED	14	14	14	8	6	100
2011 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	53	49	44	33	10	89.79
M.TECH							
2	DECS	34	27	27	20	07	100
3	WMC	15	06	06	05	01	100
4	CSE	35	32	32	27	05	100
5	SE	15	15	15	13	02	100
6	PEED	15	15	12	10	02	80.00

JNT University Hyderabad (JNTUH) Rank Holders:

Vardhaman College of Engineering students have been securing University ranks regularly right from the 1st Batch. The ranks in a row reflect the dedicated efforts of the faculty and core competencies of the Management. The following Vardhaman College of Engineering students secured University Ranks in the examinations conducted by Jawaharlal Nehru Technological University, Hyderabad:

J N T U Hyderabad Ranks in Regular Examinations:

S No.	Name of the Student	Batch	Department	University Rank	Percentage
1	Sridhar Chowhan	2002 -2006	EEE	8 th	90.93
2	A N S Aparna	2007 - 2011	MECH	1 st & Gold Medal Winner	90.80

J N T U Hyderabad Ranks Secured in First B. Tech Exams:

S No.	Name of the Student	Batch	Department	University Rank	Percentage
Academic Year: 2009 – 2010					
1	Maryala Phanendra	09881A0525	CSE	2	94.1
2	A Suraj Kumar	09881A0341	MECH	2	93.4
3	Betsy Maria Mathews	09881A0209	EEE	12	93.1
4	Timothy Zechariah	09881A2148	AERO	1	92.1
Academic Year: 2008 – 2009					
5	Nishanth Kbra	08881A0422	ECE	1	91.4
6	Kottam Rohit Reddy	08881A0434	ECE	2	90.27
7	Ginige Naveen Kumar	08881A0222	EEE	2	90.82
8	A N S Aparna	07881A0306	MECH	1	90.80

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

The taken efforts to have transparency in the internal assessment. The test answers and model papers are given to the students. Student gets opportunity to discuss the performance in the tests with the concerned teachers.

- College has the specially developed progressive assessment sheet which considers attendance, personality, behavior, extension of experiment, innovations and should include marks for writing conclusion of the practical perform. The proper weightages are given to these heads. College displays the internal marks obtained by students on the notice boards.
- College encourages the independent learning which includes paper presentation by students, project, innovative mini project, publishing the articles in news paper and gives proper weightage to these heads.
- College displayed marking scheme at the start of academic year, on the notice board website and carries out the evolution and display the result based on above evolutions.

Improvements in Internal Assessment: Written tests, attendance, presentations, field visits, assignments, seminars, workshops, research activities, independent learning and behavioral aspects.

Transparency in Internal Assessment: After evaluation of the assignments / tests / projects / etc. the outcome results are discussed in the class, results are put on the notice board, students are individually counseled, feedback taken from the students for better assessment, as well as improving the existing standards of assessment. Weight age in Internal Assessment: While evaluating students for internal assessment due weight age is considered for their behavioral aspects, independent learning and communication skills.

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

YES, College and teachers use assessment/evaluation as indicator for performance evaluation of the students. When the teacher plans the course, he/she formulates the objective for the course. The teacher uses the following factors to check fulfillment of objectives.

- At the end of lecture verbal questioning, object test and feedback is taken.
- The student satisfaction level and application of mind is also evaluated.
- Mock tests give information about performance of student.
- Faculty closely observes the lab skills developed by students.

Using above, if required the teacher can modify the teaching learning process. College also uses the evaluation and assessment measures to check whether objectives of program are fulfilled. It also monitors the progress of programs as per vision and mission.

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

S. No.	Assessment Criteria	Learning Outcome
1	Written Assessment	Improved flow of thought and expression
2	Project Assessment	Helps in gaining in depth knowledge
3	Attendance Assessment	Leads to regularity and punctuality

2.5. What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The College has the redressal cell for grievances with reference to internal evaluation. The Cell consists of concerned, Principal, HOD, one faculty nominee, two students nominee. The student can apply to the cell for his evaluation grievances. The cell conducts a meet and calls students and hears his/her say and gives the appropriate decision which is binding on all. University also deputed CEO at College level who takes care of University evaluation grievances. CEO forwards the grievances to the University. The University settles the grievances using its own mechanism.

The redressal of grievances regarding evaluation in both internal assessment and university examination is through the following process:

At the college level:

- The teacher displays corrected answer books to students and student grievances are addressed. In case of any controversy, the Head of Department intervenes. The marks with grades of all the internal compo-

nents of evaluation are displayed on faculty notice board for at least three days at the end of the semester. Students can verify and get any discrepancy rectified.

- Genuine cases are given due consideration while awarding internal marks.
- Genuine absentees and failures are given assignments and re-test so as to help them score better internal marks.

At University level:

- The student can apply for scrutiny within one month of declaration of results in case of any suspected discrepancy.
- The results committee considers all aspects and sees that all grievances are properly addressed.

2.6 Student Performance and Learning Outcomes

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

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

- Vision, Mission prominently put up at strategic places in the College
- During inaugural function every year the college learning outcomes and performance report given by the Principal.
- Student handbook given to students the day they join the college.
- Orientation program given to staff and student before the commencement of the academic year.
- Refresher courses for students and staff with the academic & industry experts.
- Alumni – student interaction
- Faculty and student training programs.
- For each subject the course description contains specific learning objectives and outcomes. Course Descriptions are prepared for every subject including laboratory and the same is displayed in the college website under the respective department courses. Course Descriptions are reviewed by the concerned HOD to ensure the objectives are met with.

Vision, Mission, Quality Policy and Objectives:

The educational programs **at VCE** are carefully designed to:

- Create an environment of academic excellence through excellent teaching by dedicated staff
- Create an encouraging and creative environment conducive to high quality research
- Provide academic freedom to acquire specialized knowledge, skills and attitudes Inculcate in students skills for innovation and creativity
- The dedicated faculty and the supporting staff, the pillars of strength, along with a vibrant and talented student community certainly make VCE College of national repute

Vision

We, at the helm of Vardhaman College of Engineering, aim at inculcating the spirit of high ambitions, healthy attitudes, discipline and multi-dimensional excellence in the students and strive to mould them to scale new heights and get their mental horizons enlarged through value-based technical education and congenial study environment.

Mission

We propose to sharpen the inherent professional skills of our students to enable them compete in the complex world through our newly evolved quality management system and dedicated staff. The practical oriented education and the research tie-up with industries we provide, tend to promote the intellectual pursuits of the students.

Objectives

- Develop a campus which promotes higher learning and research
- Recruit and retain a diverse faculty of outstanding teacher-scholars with principles and discipline
- Promote industry – College interactions by conducting seminars
- Expose students to leading Industries and Corporate Houses
- Foster a harmonious, cordial and tripartite relationship among the management, faculty and students for their respective growth and for establishing a congenial academic environment in the College.

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

The innovative structured curriculum with its multidimensional features that include multiple components of evaluation and assessment coupled with multiple channels for feedback facilitate the intended learning outcomes. The College believes in strong Teacher-Student interaction for achieving the intended learning outcomes. The weightage to attendance in course evaluation, staff attendance six days per week working in a disciplined environment are conducive to achieve the desired objectives.

- The HOD and Principal conducts the regular meetings with the faculty and appeal them to prepare course material and develop teaching learning as per the learning outcomes.
- Faculty prepares the course files and other study material to supplement the learning outcomes. The labs are developed accordingly.
- The evaluations and assessment are also conducted to monitor the achievement of outcomes.
- IQAC also gives the suggestions for better achievement of learning outcomes.

To facilitate the achievement of the intended learning outcomes, the strategies of teaching, learning & assessment of the College are through:

- Faculty improvement program.
- Continuous and comprehensive evaluation of students by the class coordinators.
- Theory, projects, assignments and practical's for effective learning.
- SMS facility in order to intimate the parents about students' attendance and academic status.
- Conducting Regular internals /preparatory exams.
- Conducting remedial classes for slow learners.

2.6.3 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

To enhance the social and economic relevance of the courses offered the measures/ initiatives taken up are:

- Students are involved in research project of faculty.
- College organizes technical research paper competition for students.
- Faculty is motivated to pursuing the Ph.D. or higher degree.
- Faculty is encourage to take the research project, the faculty get the funding for same.
- Faculty present and publish the paper in conference.
- Campus placements for quality jobs in reputed companies are contacted and organized.
- College conducts special programs to enhance the social and economical relevance of course.
- College deputed the faculty for the advance technology courses in their areas.
- College has membership of IEEE and other online journals are available in library.
- College has set up advance labs like VLSI (Cadence), Embedded Systems, High Voltage Engineering and Knowledge Discovery, CNC Machines and advanced Data Mining.
- College has the PG program to supplement the research activity.
- College has planning to establish research cell.
- College organizes the program on entrepreneurship and IPR.
- Value added lectures on entrepreneurship skills are conducted.
- College organizes NSS Camps, Blood Donation and tree plantation events etc.
- For innovation in research aptitude students are encouraged to undertake, participate in research projects, national seminar and conference.
- Special events organized by students.
- The college is dedicated for quality education which helps in branding our students as the best in the operational areas.
- Students are motivated through personality development and encouraged to participate in activities for social and community service.
- The quality education and research development activities have been contributing significantly in transforming socio-economic condition of the people.

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

- The external examiners evaluating the answer scripts give their comments on the performance of the students both question wise and in general in their reports. This forms a valuable source of data on student learning outcomes. This information is sent to the course teacher and also to the Head of Department for follow up action. The Departments and the faculty use this feedback for corrective action.
- The second most important feedback is obtained from the Placement Cell. The prospective employers send Selection Committees for Campus Selection, who give critical comments comparing our graduates with those of other Universities and also with the graduates selected in earlier years. This has proven to be a valuable source of information for assessing the success of VCE.
- The Graduate exit survey / students' feedback, Alumni survey and Employer Surveys help in getting feedback from all levels and have proved to be extremely useful for taking corrective measures.

The college has an organized procedure to collect and analyze data on student learning outcomes; the following points are adopted by the College.

- Introduction of unit test with choices and with short descriptive and analytical answers ensures comprehensive study and undertaking of the entire course content by the students.
- Providing question bank.
- Addressing the grievances.
- Providing valued answer booklets to the students after their preparatory and internal practical.
- Encouraging students to write in the short and descriptive method.
- Minimum attendance percentage (75%) and eligible criterion is followed.
- Extra classes for slow learners and also counseling classes for weak students in the subjects to improve their performance.
- Periodic evaluation helps the improvement of learning outcome.
- Communication English classes are conducted to improve their oral, written and conversational skills to help them to cope up with the subject.

2.6.5 How does the institution monitor and ensure the achievement of learning outcomes

The institution monitors and ensures the achievement of learning system from:

- Through periodic assessment
- Through student feedback
- Through monitoring of lecturing process by peers or seniors
- Identification of reasons through periodic review meetings in the following avenues
 - * Class Committee meetings
 - * Through result analysis and discussion by Dean (Academics)
 - * Fortnightly meeting by the Principal with the heads of the various departments and the Deans for various activities.

- Corrective action through
 - * Special Classes
 - * Remedial teaching for the weak students.
 - * Personalized coaching on holidays and also by evening stay back
 - * New methods of learning.
 - * Organizing make up / resource lectures to meet the students requirements.
 - * By using webinars and other e learning material.
 - * By monitoring participation and achievement of students in co curricular activities
 - * By evaluation projects and innovations of the students

At the time of admission the student is supplied with a hand book containing the curriculum and syllabi, attendance regulations, evaluation procedures, rules regarding progression of the students into higher semesters.

- Before start of the class work, the affiliating university supplies the academic calendar including examination schedules.
- Teaching plans for entire semester for each of the subjects are supplied by the concerned faculty to the students in advance.
- Teachers prepare their course material in advance for the theory subject allotted and also the manual for the lab.
- Teaching log is maintained in the attendance register to regulate the rate of coverage of syllabus.
- Evaluation of internal examinations and laboratory classes is carried out as per a scheme of valuation prepared for the purpose and made known to the students.

To ensure the achievement of learning outcomes, College focuses on planning and effective implementation of teaching learning. It also inculcate the research culture and value based education.

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

The following are the graduate attributes specified by the college/affiliating university to ensure the attainment of these by the students:

Graduate Attributes	Achieved Through
To create a passion to pursue research	• Encouraging students to pursue mini research projects, publication of research findings in conferences, seminars, Journals and encouragement for the same through sponsorship of financial assistance etc. • Conducting workshops, Seminars/Lectures to enhance the research activity awareness and to motivate more students to carry out research. • Conducting competitions to highlight the research activities carried out by students. • Cash awards for Best Students Projects.
Entrepreneurship	• To provide assistance to aspiring student entrepreneurs through the EDC-Entrepreneurship Development Cell of the College. • To impart awareness programmes under the aegis of EDC- Entrepreneurship Development Cell, by way of workshops/Seminars/Expert Lectures.

Graduate Attributes	Achieved Through
Employable/Industry ready Graduates	Industry- College interaction cell in all the departments. Training by industry experts in the following areas • Communication skills development. • Soft skills development. • Technical competency development. • Placement training by way of mock interviews, group discussions, Panel discussions etc.,
Inculcating ethical values and environmental awareness	• By offering courses on these subjects. • Awareness programme through guest lecture/NSS/Student club activities. • Field study and Field work through the various student clubs like NCC, NSS.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

- College has developed its own system to enter attendance, activity dairy, internal marks, external marks and evaluation etc.
- College has its own academic monitoring data base.
- College has developed on line Teacher Guardian Module to monitor the teaching learning.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

The institution has a research and development committee in addition to state of art technology R & D lab facilities to facilitate and monitor research activities. The faculties as well as students are actively engaged in various researches and other project works.

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

YES, College has applied for research center of the Jawaharlal Technological University, Hyderabad (JNTUH), Hyderabad and also applied for DSIR New Delhi.

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

Yes, College has research committee to monitor and address the issues of research.

Research & Development and Consultancy Committee will be constituted with the following members to promote research and faculty development.

1	Dr. J. V. R. Ravindra	Principal	Convener
2	Dr. N. Sambasiva Rao	Dean, Computer Sciences	Member
3	Dr. H. S. Jain	Dean, Electrical Sciences	Member
4	Dr. S. Deva Prasad	Dean, Aeronautical, Civil and Mechanical	Member
5	Dr. P. Sarah	Dean, Basic Sciences	Member

R & D and Consultancy Committee will be responsible for:

- 1) Encouraging Research and Consultancy among the faculty of the departments
- 2) Organizing the resources to the HODs and research faculty available in the R&D Centers
- 3) Submitting report to Dean (R&D, Consultancy and Industry College Relations) on the requirement of infrastructural facilities twice in a year which shall be included in research and consultancy plan after due consideration and deliberation
- 4) Organizing review meetings on the progress of the Research projects and consultancy works once in a quater and to submit a report to Dean (R&D)
- 5) Interacting with the HODS and the Dean (R&D) in fixing the focus areas of the research and consultancy assignments opted by the faculty, breaking the Research areas into modules and modules into mini projects, major projects, B. Tech projects and M. Tech projects

- 6) Developing a research plan based on the proposals of each of the faculty and Dean (R&D, Consultancy and IIR).
- 7) Planning for undertaking consultancy assignments in consultation with HODs.

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

- * autonomy to the principal investigator
- * timely availability or release of resources
- * adequate infrastructure and human resources
- * time-off, reduced teaching load, special leave etc. to teachers
- * support in terms of technology and information needs
- * facilitate timely auditing and submission of utilization certificate to the funding authorities
- * any other

This college has state of art research facilities to help students and faculty to pursue research. The research cell of the department gives required guidance / support for getting research projects and also to complete the research assignments within the scheduled time. The principal investigator of funded projects encouraged in all aspects to complete the projects.

The college offers full freedom to make them to feel fully comfortable while executing the project. The possible reduction is also done in their teaching load so that they will readily submit the deliverables within the accepted time. College management continuously motivates students and faculty members for presenting their paper work in international conferences with full sponsorships.

To facilitate smooth progress and implementation of research schemes the college takes initiative in availing grants/ funds, sanctioning training program and leave to scholars, time off, reduced teaching load, seeking experts,, advice and support, support in terms of technology and information needs, Adequate infrastructure & human resources.

The institution encourage to faculty to participate in research by cash incentive/awards as follows:

- * National level presentation
- * National level publication
- * International level presentation
- * International level publication

For conferences, traveling, boarding and lodging and local conveyance allowances are paid as per the norms in the service manual, access to ICT, basic infrastructure like computers internet, reprographic facilities, printing and library facilities and recognize distinguished research activities at appropriate platforms.

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

- * The students are encouraged to participate in National and International seminars and present their research papers.

- * Regular guidance provided by interacting with the expertise guest faculty. Student projects are strongly encouraged and support is given.
- * Faculty members are positive minded to share their technical exposure / specialized knowledge to other faculty members in a monthly discussion which is being conducted by management in the name of subject interest group (SIG).
- * Faculty members are constantly motivated to acquire higher qualifications with full support by providing necessary sabbatical leave and the required sponsorship.
- * College conducts annual State level technical Event TECHNOLITES for the student's for every year. The event includes Technical Paper presentation competition, software development, quizzes gaming, aptitude test, robot competitions to develop scientific temper and research culture in student.
- * College sponsors the students for attending project and paper presentation competitions.
- * College organizes annual exhibition: Project Competition for final year students.
- * Students are also motivated to participate inter colleges / university level competitions.
- * College gives awards for best innovation of Students.
- * College organizes Research Webinars for the Students.
- * College organizes students visit to R & D departments and other renowned research organizations.
- * Students are involved in the faculty research projects.

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

College has faculty with rich industrial background and R&D experience with adequate academic qualifications. Quite few of the faculty initiated their research work while in the institution and successfully completed leading to the award of Ph.D degrees. Even the supervisors for their research activities are from the same institution.

A good number of research scholars are being successfully guided by our senior faculty members and the details are given below:

S No.	Supervisor's Name	Department	Major Area of Specialization	No. of Research Scholars	
				Full Time	Part Time
1.	Dr. S.SARAVANA KUMAR	CSE	Cloud Computing, Wireless Security	--	--
2.	Dr. A. RENGARAJAN	CSE	Internet Security, Data mining	--	--
3.	Dr. P. GOVARDHAN	CSE	Image Processing	--	--
4.	Dr. N. SAMBASIVA RAO	IT	Software Engineering	02	04
5.	Dr. J V R RAVINDRA	ECE	VLSI	--	--
6.	Dr. D.B.V JAGANNADHAM	ECE	Digital Signal Processing Systems	01	02

7.	Dr. K.SURESH	ECE	Power Electronics	--	--
8.	Dr. M. MURALIDHAR	ECE	Signal Processing	--	--
9.	Dr. K. HARIKRISHNA	ECE	Embedded Systems	--	--
10.	Dr. P. SUBBAIAH	ECE	Instrumentation	--	02
11.	Dr. HARI SHANKAR JAIN	EEE	Power Systems	02	02
12.	Dr. T. SAI RAMA	EEE	Power Systems	--	--
13.	Dr. B VENKATESH	ME	Engineering Design	--	--
14.	Dr. DEVA PRASAD	ME	Industrial Engineering	--	02
15.	Dr. P. JANAKI RAMULU	ME	Manufacturing Technology	---	--
16.	Dr. V. S. PRABHAKAR	ME	Nano Technology	--	--
17.	Dr. P. SRINIVAS RAO	AE	CFD	--	--
18.	Dr. P. SARAH	H&S	Materials and Sciences	--	02-Awarded 02-Submitted 02-Registered
19.	Dr. G CHINNA RAO	H&S	Hetero Cyclic Chemistry (Organic Chemistry)	--	--
20.	Dr. A MOHAN BABU	H&S	Material Science	--	--

Apart from the research team, the under mentioned faculty staff are also rendering necessary assistance in guiding students for undertaking research activities. The following faculties are enrolled for Ph.Ds in various disciplines.

S No.	Faculty Name	Designation	Department	Major Area of Specialization
1.	Prof. L. V. Narasimha Prasad	Professor	CSE	Data Mining, Computational Intelligence, Algorithms, Image Processing
2.	Mr. H. Venkateswar Reddy	Associate Professor	CSE	Data Mining, Information Security
3.	Mr. R. Madana Mohana	Associate Professor	CSE	Data Mining, Computational Intelligence
4.	Ms. M. L. Prashanthi	Associate Professor	CSE	Data Mining
5.	Mr. P. Suresh Kumar	Associate Professor	CSE	Software Engineering
6.	Ms. G. Sunitha	Associate Professor	CSE	Data Mining
7.	Mr. M. Sunil Kumar	Associate Professor	CSE	Software Architecture
8.	Mr. D. Raman	Associate Professor	CSE	Computer Networks
9.	Mr. S. Venu Gopal	Assistant Professor (Sr.)	CSE	Computer Networks
10.	Mr. V. Munisekhar	Assistant Professor(Sr. Grade)	CSE	Network Security
11.	Mr. Ch. Sravan Kumar	Assistant Professor	CSE	Cloud Computing
12.	Ms. E. R. Aruna	Associate Professor	IT	Cloud Computing
13.	Ms. B. Padmaja	Associate Professor	IT	Network Security
14.	Mr. S. K. Prashanth	Associate Professor	IT	Cloud Computing
15.	Mr. G. Venkatesh	Assistant Professor	IT	Software Testing
16.	Prof. Y. Pandu Rangaiah	Professor	ECE	Microwave and Radar Engineering
17.	Prof. R. Murali Prasad	Professor	ECE	Communications
18.	Mr. S. Rajendar	Associate Professor	ECE	VLSI
19.	Mr. J. Krishna Chaitanya	Associate Professor	ECE	Digital Image Processing
20.	Mrs. S. Sujana	Associate Professor	ECE	Digital Systems & Computer Electronics

21.	Ms. C. Padmini	Assistant Professor (Sr. Grade)	ECE	Digital Systems and Computer Electronics
22.	Prof. D. Shobha Rani	Professor	EEE	Power Systems
23.	Mr.T.C.Srinivasa Rao	Associate Professor	EEE	Power Systems High Voltage
24.	Mr.Md.Asif	Associate Professor	EEE	Electrical Power Systems
25.	Mr. N. Srinivasa Reddy	Associate Professor	ME	Thermal Engineering
26.	Mr. K. Deepak	Associate Professor	ME	Thermal Engineering
27.	Mr. T. V. Seshiah Naidu	Associate Professor	ME	Thermal Engineering
28.	Mrs. Y. Raghava Rani	Associate Professor	CE	Structural Engineering
29.	Mr. K. Srinivasan	Associate Professor	H & S	English (Lit.)
30.	Mr. U. Madhav	Assistant Professor	H & S	English (CS)
31.	Ms. S. M. Jyothirmayee	Assistant Professor (Sr. Grade)	H & S	English(ELT)
32.	Mr. K. Madhusudhan Reddy	Assistant Professor (Sr. Grade)	H & S	Stability analysis of some epidemic models
33.	Mr. S. P. Kishore	Assistant Professor	H & S	Optimization Approaches in Radiation Treatment Planning
34.	Ms. S. Shashi Devi	Assistant Professor	H & S	Ionic Conductivity Studies in Mixed (Ba (NO ₃) ₂ –KNO ₃) crystals

High end technical research is being carried out by our faculty members in association with various industrial organizations and the list is furnished below highlighting the major activities:

S No.	Funding Agency	Title	Amount	Status
1	DRDO	Investigation and Development of Bismuth – Layered Perovskite Ferroelectrics for Piezoelectric Application	Rs.14.95 lakhs	Ongoing
2	BRNS	Development of Bismuth-Layered Perovskite Ferroelectrics thin films suitable for high temperature sensor Application	Rs.19.85 lakhs	Ongoing
3	AICTE	Fabrication and characterization of Lead free Environment friendly ferroelectrics suitable for Integrated sensor Device	Rs.7.5 lakhs	Submitted
4	DST	Application of Environment friendly Piezoceramics for transducers in Automobile Industry	Rs.23 lakhs	Ongoing
5	CSIR	Investigation of Ferroelectrics for Memory Applications	Rs.4.76 lakhs	Submitted
6	APCOST	Investigation of Electrical Properties of Perovskite Ferroelectrics	Rs.4.55 lakhs	Submitted
7	AICTE	Design, Development and Analysis of Routing Algorithms for Wireless Sensor Networks: Applications in Environment Monitoring and Disaster Relief	Rs: 16.00 lakhs	Ongoing

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

Large number of Technical Programs is being conducted in association with leading industrial organizations and the department wise activity list is provided below for the previous four years.

Many technical programs are being fully sponsored by our management to encourage interaction with outside world and the departments wise activity list for the previous four years are given in the following table.

S. No.	Title of the lecture in workshop / seminar	Department	Date (s)
1.	Concurrent Algorithms	CSE	7-9 & 13-14 th Aug, 2012
2.	Cyber Security: from Protection to Warfare	CSE	24 th Aug, 2012
3.	Essentials of Software Testing and Quality Assurance	CSE	16-19 th Aug, 2012
4.	IBM Rational Team Concert	CSE	8-11 th Oct, 2012
5.	Meeting the industry demand by Academia	CSE	1 st December 2012.
6.	Soft Skills	CSE	21 st December 2012
7.	Management and Spirituality	ECE	27 th February 2013
8.	Video Session on VLSI Lecture 10	ECE	11 April 2012
9.	Video Session on VLSI Lecture 9	ECE	9 April 2012
10.	Continuous Education and long Vision	ECE	9 th March, 2012
11.	Microprocessors and Microcontrollers	ECE	January 2012
12.	Opportunities and Options in Software arena	ECE	4 th Dec, 2011
13.	SPANDANA	ECE	19 th September, 2011
14.	SANKALP	ECE	27 th July, 2011
15.	Professional Carrier Xpress	ECE	14 th March, 2011
16.	Systematic carrier Guidance(SCG)	ECE	23 rd Sep, 2010
17.	UNNATHI	ECE	24 th June, 2010
18.	Recent trends in Power Systems	EEE	03-08-2013
19.	Seminar on Concepts and Principles of Electrical Engineering	EEE	25-04-2013
20.	Guest Lecture on Energy Conservation	EEE	11-04- 2012
21.	Seminar on Reliability Engineering and Application to Power Systems	EEE	30 -03-2012
22.	Seminar on Recent Trends in Power Electronics	EEE	7 -03- 2012
23.	SCADA & Its applications to Power Systems	EEE	19 -09- 2011
24.	Work Shop on ROBOTICS	EEE	27-07-2011
25.	Seminar on Employability opportunities	EEE	14-03-2011
26.	Seminar on Ethics and Industry Best Practices	EEE	23-08-2010
27.	Seminar on Motivation Campaign Towards Self Employment Program	EEE	14-08- 2010
28.	Work Shop For students on "The Entrepreneur spirit Get the Winning Edge".	EEE	4 to 7-01-2010
29.	Work Shop For students and Faculty on Documentary Screening Activity on Team Building	EEE	9 to 14-11- 2009
30.	Work Shop For students on Household Electrical Wiring Practice'	EEE	12 to 14-10- 2009
31.	Two day IUCEE workshop on "IUCEE_PLM workshops_Phase-1" conducted by TCS technologies	ME	21 st to 22 nd September, 2012

S. No.	Title of the lecture in workshop / seminar	Department	Date (s)
32.	Two day NOX Technologies workshop on “ Design Criteria for manufacturing Products through softwares	ME	8 th to 9 th February, 2013
33.	Two day workshop on ROBOTICS by EYEBOLT – ROBO GENSIS on image reorganization	ME	29 th to 30 th September, 2012.
34.	Organized an ‘Industrial Setup Awareness Programme’	ME	15 th July 2011 to 17 th July 2011
35.	Two day National Seminar on Transformation of Students into industry –Suitable Work force	ME	25 th November 2011 to 26 th November 2011
36.	Organized an ‘Business Skill Development Programme’	ME	15 th July 2011 to 17 th July 2011
37.	Organized a ‘Motivation Campaign Towards Self Employment Program’	ME	11 th August 2010- 14 th August 2010
38.	Organized a ‘Entrepreneur Development Program’	ME	13 th December 2010-17 th December 2010
39.	Program For Faculty Under NEN(National Entrepreneurship Network)	ME	08 th September 2010- 11 th September 2010
40.	One day Work Shop For students on ‘The Entrepreneur spirit Get the Winning Edge ‘	ME	4 th January 2010- 7 th January 2010
41.	Organized the ‘Documentary Screening Activity on Team Building ‘	ME	9 th November 2009 to 14 th November 2009
42.	Organized a ‘ Household Electrical Wiring Practice’	ME	12 th October 2009- 14 th October 2009
43.	A seminar on Photogrammetry and GIS applications in Civil Engineering	CE	15-07-2013
44.	A seminar on stabilization of soils	CE	20-03-2013
45.	A seminar on Mix design of concrete	CE	8-10-2013
46.	A seminar on application of geosynthetic for civil engineering problems	CE	16-01-2013

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

Many departments have research centre facility and the faculty members of this institution also actively involved in research. The table below gives the department wise faculty specialization. All of them are guiding the final year’s student’s projects / paper work in these areas apart from guiding research scholars from other institutions / industries.

Faculty – Specialization:

S.No.	Faculty Name	Designation	Department	Major Area of Specialization
1	Dr. S.Saravana Kumar	Professor	CSE	Cloud Computing, Wireless Security
2	Dr. A. Rengarajan	Professor	CSE	Internet Security, Data mining
3	Dr. P. Govardhan	Professor	CSE	Image Processing
4	Dr. N. Sambasiva Rao	Professor	IT	Software Engineering
5	Dr. J. V. R. Ravindra	Professor	ECE	VLSI
6	Dr. D.B.V. Jagannadham	Professor	ECE	Digital Signal processing Systems
7	Dr. K. Suresh	Professor	ECE	Power Electronics
8	Dr. M. Muralidhar	Professor	ECE	Signal Processing

SNo.	Faculty Name	Designation	Department	Major Area of Specialization
9	Dr. K. Harikrishna	Professor	ECE	Embedded Systems
10	Dr. P. Subbaiah	Professor	ECE	Instrumentation
11	Dr. Hari Shankar Jain	Professor	EEE	Power Systems
12	Dr. T. Sai Rama	Professor	EEE	Power Systems
13	Dr. B. Venkatesh	Professor	ME	Engineering Design
14	Dr. S. Deva Prasad	Professor	ME	Industrial Engineering
15	Dr. P. Janaki Ramulu	Professor	ME	Manufacturing Technology
16	Dr. V. S .P. Prabhakar	Professor	ME	Nano Technology
17	Dr. P. Srinivas Rao	Professor	AE	CFD
18	Dr. P. Sarah	Professor	H&S	Nano Technology
19	Dr. G. Chinna Rao	Professor	H&S	Hetero Cyclic Chemistry (Organic Chemistry)
20	Dr. A. Mohan Babu	Professor	H&S	Material Science

Apart from the research team, the under mentioned faculty staff are also rendering necessary assistance in guiding students for undertaking research activities. The following faculties are enrolled for Ph.Ds in various disciplines.

S No.	Faculty Name	Designation	Department	Major Area of Specialization
1.	Prof. L. V. Narasimha Prasad	Professor	CSE	Data Mining, Computational Intelligence, Algorithms, Image Processing
2.	Mr. H. Venkateswar Reddy	Associate Professor	CSE	Data Mining, Information Security
3.	Mr. R. Madana Mohana	Associate Professor	CSE	Data Mining, Computational Intelligence
4.	Ms. M. L. Prashanthi	Associate Professor	CSE	Data Mining
5.	Mr. P. Suresh Kumar	Associate Professor	CSE	Software Engineering
6.	Ms. G. Sunitha	Associate Professor	CSE	Data Mining
7.	Mr. M. Sunil Kumar	Associate Professor	CSE	Software Architecture
8.	Mr. D. Raman	Associate Professor	CSE	Computer Networks
9.	Mr. S. Venu Gopal	Assistant Professor (Sr.)	CSE	Computer Networks
10.	Mr. V. Munisekhar	Assistant Professor(Sr.) Grade)	CSE	Network Security
11.	Mr. Ch. Sravan Kumar	Assistant Professor	CSE	Cloud Computing
12.	Ms. E. R. Aruna	Associate Professor	IT	Cloud Computing
13.	Ms. B. Padmaja	Associate Professor	IT	Network Security
14.	Mr. S. K. Prashanth	Associate Professor	IT	Cloud Computing
15.	Mr. G. Venkatesh	Assistant Professor	IT	Software Testing
16.	Prof. Y. Pandu Rangaiah	Professor	ECE	Microwave and Radar Engineering
17.	Prof. R. Murali Prasad	Professor	ECE	Communications
18.	Mr. S. Rajendar	Associate Professor	ECE	VLSI

S No.	Faculty Name	Designation	Department	Major Area of Specialization
19.	Mr. J. Krishna Chaithanya	Associate Professor	ECE	Digital Image Processing
20.	Mrs. S. Sujana	Associate Professor	ECE	Digital Systems & Computer Electronics
21.	Ms. C. Padmini	Assistant Professor (Sr. Grade)	ECE	Digital Systems and Computer Electronics
22.	Prof. D. Shobha Rani	Professor	EEE	Power Systems
23.	Mr.T.C.Srinivasa Rao	Associate Professor	EEE	Power Systems High Voltage
24.	Mr.Md.Asif	Associate Professor	EEE	Electrical Power Systems
25.	Mr. N. Srinivasa Reddy	Associate Professor	ME	Thermal Engineering
26.	Mr. K. Deepak	Associate Professor	ME	Thermal Engineering
27.	Mr. T. V. Seshiah Naidu	Associate Professor	ME	Thermal Engineering
28.	Mrs. Y. Raghava Rani	Associate Professor	CE	Structural Engineering
29.	Mr. K. Srinivasan	Associate Professor	H & S	English (Lit.)
30.	Mr. U. Madhav	Assistant Professor	H & S	English (CS)
31.	Ms. S. M. Jyothirmayee	Assistant Professor (Sr. Grade)	H & S	English(ELT)
32.	Mr. K. Madhusudhan Reddy	Assistant Professor (Sr. Grade)	H & S	Stability analysis of some epidemic models
33.	Mr. S. P. Kishore	Assistant Professor	H & S	Optimization Approaches in Radiation Treatment Planning
34.	Ms. S. Shashi Devi	Assistant Professor	H & S	Ionic Conductivity Studies in Mixed (Ba (NO ₃) ₂ –KNO ₃) crystals

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

This college encourages both faculty and student to invite the expert speakers in the field of both academia and industries for conducting various technical programs and also to get good exposure in all latest technologies. Department Professional Associations are always active in organizing the guest lectures and technical symposium throughout the year without affecting the academic schedules.

The college has close tie-ups to conduct various in-house training programs at the college with prominent industries like Infosys Campus Connect, IBM Software Centre of Excellence, TCS Campus Accreditation etc.

The institution has MOUs with the following Colleges and industries:

- Infosys campus Connect

- IBM Software centre of excellence
- Indo-U.S. Collaboration for Engineering Education (IUCEE)
- University of Massachusetts (UMASS)
- Cisco Networking Academy
- Oracle Academy
- TATA Consultancy Services

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

10% of faculty have utilized sabbatical leave for research activities. It is useful for faculties related to their research activities,

- By attending workshops
- By attending conferences/seminars
- By attending hands-on training in reputed institutions
- By giving guest lectures

All these can be utilized by the faculty to complete their funded projects as well as their own research work.

The college provides O.D every year for presentation of papers and participation in national and international conferences. They have been sanctioned with O.D (On Duty) to meet their external guides to discuss regarding their research work. The College provides minimum two weeks O.D for submission of their thesis. The College provides Academic leave to faculty for participating and presenting papers at national and international conferences 25% of faculty has availed the facility. The institution encourage the faculty to participate in research by cash incentive/awards for National level presentation, National level publication, International level presentation, International level publication, for conferences- traveling, boarding and lodging and local conveyance allowances are paid as per the norms in the service rules, access to ICT, basic infrastructure like computers internet, photocopy, printing and library facilities and recognize distinguished research activities appropriate platforms. These provisions have contributed in improving the research culture amongst staff as they have initiated their research activities.

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

College library has full access to national journals and international journals with online access to the following:

- IEEE All-Society Periodicals Package (ASPP) 145 Journals Plus Backup file To 2000
- SPRINGER Electrical, Electronics and Computer Science Engineering Collection Titles-149
- ASCE EJournals Package 34 Journals Plus Back file To 1983
- ASME EJournals Package 26 Journals Plus Back file To 2000
- MCGRAW- HILL'S Access Engineering
- J - GATE Social and Management Sciences

- ELSEVIER SCIENCE DIRECT 275 E-Journals Engineering + Computer Science
- ASTM Digital Library – Online

In addition to this our digital library has access to E-Books, E-Lectures and large number of CD-ROM collection for the benefit of students and faculty members. In all our labs, we do certainly conduct some additional experiments beyond the prescribed syllabus for ensuring better clarity. The students are made aware by novel teaching methods and importance of patents.

- College organizes project exhibition, research poster competition and invites the school students and common man.
- PG student research team is established. Team delivers seminars and tutorials on state of art in the related areas.
- NSS unit understand the needs of the society. It also meets the school children. Give access to College labs and computing center. It also undertakes community projects.
- Students use professional society platforms (IEEE, ACM, ISTE, IETE, and CSI) to explore the technology development to society.

3.2 Resource Mobilization for Research

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

As mentioned below, good percentage of total department budget is earmarked for research. The tables given below furnish the major heads of expenditure and actual utilization with specific allocation to equipments, maintenance and books.

S. No.	Major Heads of expenditure	Budget (Rupees in Lakhs)							
		2012 - 2013		2011 - 2012		2010 - 2011		2009 - 2010	
		Allocated	Spent	Allocated	Spent	Allocated	Spent	Allocated	Spent
1.	Procurement of equipments for R & D	40.00	36.00	15.00	14.00	10.00	06.00	10.00	03.00
2.	Consumable	0.80	0.75	0.65	0.61	0.60	0.55	0.50	0.41
3.	Journals, Periodicals	15.00	14.00	15.00	12.00	10.00	8.51	08.00	06.00
4.	Books	13.73	12.75	8.51	7.74	11.15	10.32	11.49	10.64
5.	Travelling/Registration grant	2.00	1.81	1.75	1.65	1.50	1.11	1.00	0.93
6.	Publications of re-search Articles	1.5	1.0	1.0	0.8	1.0	0.75	1.0	0.66
7.	Others	2.0	1.3	1.5	0.9	1.5	0.71	1.0	0.9

Apart from the expenditures listed, college also receives the grant from various funding agencies viz., AICTE, UGC, DRDO, DST etc., for conducting Workshops, Conferences and research projects. Over and above the grant expenditure is borne by college management from its own resources.

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

Yes, the College R & D Center started in 2007. Institution has provision to provide seed money to the faculty for research activities as providing on-duty leave (OD) to faculty for participating and presenting papers at national level seminar, conferences and Extending TA/ DA for presenting papers at conferences/ seminars.

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

For research projects, the students are financially supported on need bases. Students can use College infrastructure after working hours for doing their projects.

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

Considering expertise and facilities available, the research committee identifies the interdisciplinary areas of research. The HODs and concerned faculty regularly interacts and finds the interdisciplinary areas. The faculty of different department gets associated with the professional societies like IEEE and ACM. The related events also trigger the interdisciplinary areas of research. The students of different disciplines undertake interdisciplinary projects. The major challenges are identification of interdisciplinary research problem, coordination of faculty, students and labs and defining scope of each area.

Subject Interest Group (SIG) involving faculty members from different department meets every month to discuss the leading edge research topics in full length with other members for mutual benefits. As a result, many new research ideas had been generated leading to a good number of quality research papers. There are interactive sessions and seminars given by the faculty to discuss the work being done and all faculty and students are thus exposed to the work being done in the college.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

All equipments existing in the labs are calibrated and made available both to faculty members and students. Workshop is conducted by focusing the application of different types of equipments to be engaged by the faculty members. Training and demonstration also carried out using these instruments during workshop for the participants. Similarly for routine practical experiments all available equipments are well accessible to students for their practical purpose.

In our college, the lab and other research facilities is left open for both students and faculty members beyond official working time and also during vacation period. Our campus is connected with full fledged Wi-Fi facility with numerous workstations in every department and also installed with required

latest system and application software packages. Our central library has access to 52498 volumes and 9440 titles, many national journals and international journals with central computational facility fitted with 40 Mbps internet connectivity which is left open to students including Sunday.

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

Yes. Our college has received grants from many organizations for creating research facility mainly to upgrade our facilities and also to purchase latest capital intensive equipments and the details about such major prestigious assignments are as follows:

S No.	Funding Agency	Project Title	Primary Investigator / Designation with Dept.	Amount in lakhs	Year
1	AICTE-RPS	Design, Development and Analysis of Routing Algorithms for Wireless Sensor Networks: Applications in Environment Monitoring and Disaster Relief	Dr JVR Ravindra, Professor, Dept. of ECE	Rs: 16.00 lakhs	2013
2	AICTE-MODROBS	Knowledge Discovery and Data Mining in Engineering, Science and Environment	Dr P. Govardhan, Professor, Dept. of CSE	Rs.6.9 lakhs	2013
3	AICTE-MODROBS	Modernization of Electrical Simulation Lab	Dr N. Sambasiva Rao, Professor, Dept. of EEE	Rs.7.0 lakhs	2012
4	AICTE-MODROBS	Data Mining for Business Intelligence work station setup and computer animation multimedia and web design Lab	Dr A. Rammohana Reddy, Professor, Dept. of IT	Rs.7.0 lakhs	2012
5	DRDO	Investigation and Development of Bismuth – Layered Perovskite Ferroelectrics for Piezoelectric Application	Dr P. Sarah, Professor, Dept. of Basic Sciences	Rs.14.95 lakhs	Ongoing
6	BRNS	Development of Bismuth-Layered Perovskite Ferroelectrics thin films suitable for high temperature sensor Application	Dr P. Sarah, Professor, Dept. of Basic Sciences	Rs.19.85 lakhs	Ongoing
7	DST	Application of Environment friendly Piezoceramics for transducers in Automobile Industry	Dr P. Sarah, Professor, Dept. of Basic Sciences	Rs.23 lakhs	Ongoing
8	APCOST	Investigation of Electrical Properties of Perovskite Ferroelectrics	Dr P. Sarah, Professor, Dept. of Basic Sciences	Rs.4.55 lakhs	Submitted

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

Many of our faculty members currently executing the research projects to AICTE, UGC, DRDO, DST etc., and college has given the undertaking to those funding agencies that in case expenditure incurred by the Principal Investigator is more than the sanctioned amount, then College will bear the expenditure.

ture from its own resources as seed money. The teaching load is brought down for the principal investigator mainly to make them to feel comfortable while carrying out such prestigious assignments. The management also shares percentage of the total income generated with principal investigators for motivating the academic research. List of major and minor funded projects done by each department is furnished in the following tables.

Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total grant		Total grant received till date
				Sanctioned	Received	
Minor projects	--	--	--	--	--	--
	2013-2014	Design, Development and Analysis of Routing Algorithms for Wireless Sensor Networks: Applications in Environment Monitoring and Disaster Relief	AICTE-RPS	Rs. 16.00 lakhs	Rs. 3.10 lakhs	Rs. 3.10 lakhs
Major projects		Investigation and Development of Bismuth - Layered Perovskite Ferroelectrics for Piezoelectric Application	DRDO	Rs.14.95 lakhs	Rs.14.95 lakhs	Rs.14.95 lakhs
		Development of Bismuth-Layered Perovskite Ferroelectrics thin films suitable for high temperature sensor Application	BRNS	Rs.19.85 lakhs	Rs.19.85 lakhs	Rs.19.85 lakhs
		Application of Environment friendly Piezoceramics for transducers in Automobile Industry	DST	Rs.23 lakhs	--	--
Interdisciplinary projects	--	--	--	--	--	--
Industry sponsored	--	--	--	--	--	--
Students' re-search projects	--	--	--	--	--	--
Any other (specify)	--	--	--	--	--	--

3.3 Research Facilities

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

- The College offers both undergraduate and post graduate courses in varied discipline and to meet the curriculum including the research requirement the management has developed state of art facilities for the benefit of both students and faculty members
- Wi Fi Campus
- High speed internet connectivity up to 40 Mbps and good number of desktop / laptop PCs has also been provided to all departments to enable the faculty and students to pursue their academic as well as their research activities.
- College computing center and labs are open beyond the working hours
- College has research labs. Which include Data Mining, VLSI, Embedded Systems, Cadence and High Voltage Engineering
- Each department has project labs for students
- College has well stocked library and digital library. Online Journal Access through AICTE - INDEST helps faculty and students in accessing research publication
- Canteens, Transport facilities, gym and other recreation facilities

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

- In line with the curriculum, the basic infrastructure is available for both under graduate and post graduate courses
- To meet the increased strength of students and also to meet the demand of new leading edge technology, Management continuously indentify and procures new equipments for research work and also submit proposals for getting MODROBS from AICTE.
- Encouragement given to faculty for Applying to funding agencies like AICTE through their various schemes like MODROB, Research Promotion Scheme (RPS), Faculty Development Programs(FDP), Seminar Grant(SG) etc.mainly to establish research facilities through sanctioned funded project.
- In department budget allocation, normally funds separately have been allocated for research through which latest software and equipments can be procured to carry out the research.
- Dedicated computer system for prospective faculty involved in active research to carry out research pursuit.
- Faculty and students always encouraged to interact with industries for exploring the avenues of collaborative research.
- Establishment of facilities for functional testing to promote consultancy through meeting the testing needs of the neighboring/interacting industries.

- Constant initiatives taken to develop collaborations with Industry, Research Colleges and Abroad Universities etc.,
- Deployed full computerization through expansion of Information Management System and developed e-learning facilities
- College then and there review the research progress of the researchers and new funding will be provided to individual department every year to proceed with the current research and start new research work.
- Sophisticated instruments, modeling tools, data processing software, and modern equipments will be purchased every year for upgrading and creating the research infrastructural facilities to meet the needs of new and emerging areas of research.
- Each department has industry College interaction cell for creating and enhancing new facilities to conduct joint research activity.
- College organizes and also deputed faculty for research programs. Programs are also organized for students.

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

The following table gives the details about the grants received from the industry / other funding agencies and several items were procured from such special grants.

S No.	Sponsor	Research Facility Created	Department	Amount in lakhs	Status / Sanctioned Year
1.	AICTE-RPS	Design, Development and Analysis of Routing Algorithms for Wireless Sensor Networks: Applications in Environment Monitoring and Disaster Relief	ECE	Rs. 16.00 lakhs	2013
2.	AICTE-MODROBS	Knowledge Discovery and Data Mining in Engineering, Science and Environment	CSE	Rs.6.9 lakhs	2013
3.	AICTE-MODROBS	Modernization of Electrical Simulation Lab	EEE	Rs.7.0 lakhs	2012
4.	AICTE-MODROBS	Data Mining for Business Intelligence work station setup and computer animation multimedia and web design Lab	IT	Rs.7.0 lakhs	2012
5.	DRDO	Investigation and Development of Bismuth – Layered Perovskite Ferroelectrics for Piezoelectric Application	Basic Sciences	Rs.14.95 lakhs	Ongoing
6.	BRNS	Development of Bismuth-Layered Perovskite Ferroelectrics thin films suitable for high temperature sensor Application	Basic Sciences	Rs.19.85 lakhs	Ongoing
7.	DST	Application of Environment friendly Piezoceramics for transducers in Automobile Industry	Basic Sciences	Rs.23 lakhs	Ongoing

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

- College encourages students and research scholars to visit different lab for research purpose by providing leaves and other facilities. College arranges industrial visits for student. We depute student for research competition, exhibition.
- UG and PG students are always encouraged to do their project work at Research organizations and Industries like DRDO, ISRO etc.

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

Our central library is fully computerized by automating the issue of books with bar code reader. The library has 9851 titles covering all major fields of Science and Engineering. The College has a spacious CENTRAL LIBRARY in an independent building with an area of 30,000 sq. ft. spread over two floors. First Floor is accommodating Circulation Books, book bank Books, News Papers, Back Volumes of the Periodicals. Second floor is accommodating Reference Books, Current Periodicals, etc. It is having a modern infrastructure with a reading capacity of 500 students.

It has the collection of 53,722 volumes of books as on 19 September, 2013. It has subscribed to more than 850 online journals of IEEE, ACM, Springer, ASME, ASCE & J-Gate and it is subscribing more than 156 Indian Journals & Magazines in print.

Digital library with 40 systems to access E-journals, E-books, E-learning, Multimedia Center and photocopying are made available for the convenience of the users. N-LIST E resources (Through INFLIBNET), NPTEL facility (National Programme on Technology Enhanced Learning) to access video lectures and Membership of DELNET (Inter library loan) for resource sharing. Library is fully computerized with bar-coding system.

Library & Information Centre provides uncompromising information and intellectual requirements to its students and faculty with user-friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that resources are easily available in Reference Section and Stack Section as well.

S No.	Library Resources	Availability in Numbers
1	Volumes	53722
2	Titles	9851
3	International Journals	7363
4	Indian Journals	--
5	Magazines	33
6	Back Volumes	150
7	Daily Newspapers	13
8	Digital Medias ex., CD-Rom	3008
9	Electronic Books	363

S No.	Subjects	International Journals Subscription	Other Research Magazines
1	B.Tech – CSE	348	33 GENERAL MAGAZINES
2	B.Tech – IT	89	
3	B.Tech – ECE	170	

4	B.Tech – EEE	180	
5	B.Tech – ME	127	
6	B.Tech – AE	41	
7	B.Tech – CE	98	
8	M.Tech – CSE	123	
9	M.Tech – SE	89	
10	M.Tech – DECS	54	
11	M.Tech – ES	38	
12	M.Tech – WMC	59	
13	M.Tech – PEED	63	
14	M.Tech – ED	57	
15	M.Tech – Structural Engineering	35	
16	Humanities & Social Sciences	72	
17	MBA & Social Sciences	5720	

3.3.6 What are the collaborative research facilities developed / created by the research Colleges in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

Out of the funds received from industry or other beneficiary agency for developing research facilities, the following instruments / facilities created during the last five years for mutual benefit

Name of the Laboratory	Name of the Equipment Machinery	Date of Purchase	Number Available	Cost each (in Rs)	Total Cost (in Rs)
M.Tech PG Labs PEED, DECS, WMC, ED, ES	HP 4000 pro SFF Desktops, Intel Pentium Dual Core	26-04-2011	126	20300	2557800
CSE PG LAB-1	Wipro Intel P-IV @3.0 GHz	15-03-2007	36	20650	743400
CSE PG LAB-2	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	18	22500	405000
ECE PG LAB-1	HP DX 2280 @ 1.8 GHz Dual Core Processor	17-05-2008	18	18250	328500
ECE PG LAB-2	HP DX 2280 @ 1.8 GHz Dual Core Processor	17-05-2008	36	18250	657000
ECE PG LAB-3	HP DX 2280 @ 1.8 GHz Dual Core Processor	17-05-2008	18	18250	328500
CSE RESEARCH LAB-1	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000
CSE RESEARCH LAB-2	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000
ECE RESEARCH LAB-2	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000
ECE RESEARCH LAB-3	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000
ME RESEARCH LAB-1	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000
CSE PG LAB-1	TVS MSP 250	18-06-2011	1	8300	8300
CSE PG LAB-2	TVS MSP 250	18-06-2011	1	8300	8300
CSE RESEARCH LAB-2	TVS RP 35	22-07-2012	1	11200	11200
CSE RESEARCH LAB-1	TVS RP 35	22-07-2012	1	11200	11200
ECE PG LAB-3	8051 RTOS Development Boards	12-07-2008	15	7000	105000

Name of the Laboratory	Name of the Equipment Machinery	Date of Purchase	Number Available	Cost each (in Rs)	Total Cost (in Rs)
ECE LAB - 14	Terminal IC Regulator kit	21-11-2000	2	1750	3500
ECE LAB - 14	Digital to Analog Converter Kits	21-11-2000	3	1090	3270
ECE LAB - 14	A to D Analog Converter Kits	02-12-2000	3	1490	4470
ECE LAB - 14	Logic Gates kit	02-12-2000	2	1390	2780
ECE LAB - 14	Function Generator Using IC 741 Kit	02-12-2000	2	1090	2180
ECE PG LAB-1	Laser Fiber Optic Trainer model ST2506	01-08-2002	1	22800	22800
ECE PG LAB-1	Optical Fibre Trainer Kit Analog Link TX and RX Mo	26-06-2003	3	8500	25500
ECE PG LAB-1	Optical Fibre Trainer Kit Digital Link TX and RX M	15-08-2003	3	15000	45000
ECE PG LAB-2	TMS 320 C 6713 DSP Kit	15-09-2005	1	25630	25630
ECE PG LAB-2	TMS 3205 DSP Kit	15-09-2005	5	25630	128150
ECE PG LAB-2	TMS 320C6713	22-06-2009	9	25961	233649
ECE PG LAB-2	TMS 320C5416	22-06-2009	1	24038	24038
EEE PG LAB	PSCAD/EMTDC SOFTWARE	04-09-2008	1	260000	260000
EEE PG LAB	1-Phase Fully Controlled Bridge 1-Phase Fully Cont	10-11-2008	1	10800	10800
EEE PG LAB	1-Phase Half Controlled Bridge 1-Phase Half Contro	10-11-2008	1	10400	10400
EEE PG LAB	20MHz Dual trace Oscilloscope Model : CADDO 802	21-01-2009	4	17600	70400
EEE PG LAB	3-Phase Input Igbt Based 4- Quadrant Chopper Drive	10-11-2008	1	66000	66000
EEE PG LAB	3-Phase Wound Rotor Induction Motor	10-11-2008	1	30500	30500
EEE PG LAB	Cyclo Converter Based Induction Motor Control Unit	10-11-2008	1	23000	23000
EEE PG LAB	Digital multimeters Model: caddo 51	21-01-2009	2	1350	2700
EEE PG LAB	Igbt Based 4-Quadrant Chopper Drive For Pmdc Close	10-11-2008	1	29000	29000
EEE PG LAB	Pmdc Closed Loop Control Unit	10-11-2008	1	23000	23000
EEE PG LAB	HP DX 2280 @ 1.8 GHz Dual Core Processor	17-05-2008	18	18250	328500
EEE PG LAB	10:1 C.R.O. PROBE	10-11-2008	6	1200	7200
EEE PG LAB	10:1 1-Phase (230-0-230,5a), Isolation Transformer	10-11-2008	1	9000	9000
EEE PG LAB	Power Scope Model: CADDO 824	21-01-2009	2	22500	45000
EEE PG LAB	Speed Control Unit For 3-Phase Wound Rotor Inducti	10-11-2008	1	14000	14000
EEE PG LAB	Thyristorised Drive For 1 Hp Dc Motor With Closed	10-11-2008	1	49550	49550
EEE PG LAB	Thyristorised Drive For Pmdc Closed Loop Control U	10-11-2008	1	27500	27500
EEE LAB 7	100 Users MATLAB	06-06-2012	1	861476	861476
EEE RESEARCH LAB	LENOVO 2120 @ 3.3 GHz Core i3 Processor	26-07-2012	8	22500	180000

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- * Patents obtained and filed (process and product)
 - * Original research contributing to product improvement
 - * Research studies or surveys benefiting the community or improving the services
 - * Research inputs contributing to new initiatives and social development
- Patents obtained and filed (process and product)
Patents obtained and filed (process and product) by the faculty and students are given in the following table:

S No.	Name of Faculty	Department	Name of the Patent	Application No.	Date
1	Prof L. V. Narasimha Prasad	CSE	Prediction of Rainfall using Pressure Points, Image Processing and Data Mining	78788622	20/03/2012
2	Mr K. Prudvi Kumar Reddy & Prof. D. Shobha Rani	ME	Straticity	69522458	28/01/2012
3	Dr. H S Jain & Prof. D. Shobha Rani	EEE	A Novel Smart Distribution Module	In the process of approval	

S. No.	Patent Number	Patent Title
1	10562764	O Fuel Car
2	10548644	Behaviour of Halgones in Vacuum
3	10563984	Solar Degradation
4	10548698	Effect of Earths Magnetic Poles on Electric Discharge
5	10548685	B.H.A.S.K.A.R
6	9599164	Super Hallow Inducto Laminatory Device
7	10591502	Anti Gravitation Shoes
8	10562211	Ethical Hacking
9	10548852	Strato Energy
10	10592325	Electricity from Sound

- Original research contributing to product improvement
In the Computer Science and Engineering department, Lots of design and conceptual work has been done to develop E-learning tool which helped the product development cycle in a way it is expected.
- Research studies or surveys benefiting the community or improving the services Our E-learning studies at computer Science and Engineering department helped our institution for achieving improved e-learning facility.
- Research inputs contributing to new initiatives and social development

Design of Smart Spaces by Computer Science and Engineering department has helped the faculty members to come out with new initiatives for possible social development.

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

The College has started to publish one research journal from our College. Dr. P. Janakiramulu is appointed as co-coordinator for this work and he has already started work in this aspect.

3.4.3 Give details of publications by the faculty and students:

- * Publication per faculty
- * Number of papers published by faculty and students in peer reviewed journals (national / international)
- * 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.)
- * Monographs
- * Chapter in Books
- * Books Edited
- * Books with ISBN/ISSN numbers with details of publishers
- * Citation Index
- * SNIP
- * SJR
- * Impact factor
- * h-index

The following table gives the publication details of our students and faculty members including the above required details.

S. No.	Department	Papers Published by		Total Number of Publications	Books Published
		Faculty	Students		
1	Computer Science and Engineering	118	30	148	07
2	Electronics & Communication Engineering	113	45	158	04
3	Information Technology	19	20	39	--
4	Electrical and Electronics Engineering	84	42	126	02
5	Mechanical Engineering	115	12	127	05
6	Aeronautical Engineering	16	08	24	01
7	Civil Engineering	28	09	37	01
8	Master of Computer Applications	07	08	15	--
9	Master of Business Administration	01	04	5	--

- * **Books with ISBN/ISSN numbers with details of publishers**
- * **Dr. P. Sarah, Professor, Dean - R & D, Basic Sciences**
 1. Lasers and Optical Fibre Communications, IK International, New Delhi 2008
 2. Engineering Physics and Engineering Chemistry, Gamaliel Publishers, Hyderabad 2013

3.4.4 Provide details (if any) of

- * research awards received by the faculty
- * recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally
- * incentives given to faculty for receiving state, national and international recognitions for research contributions.

Research awards received by the faculty:

- Dr P. Janaki Ramulu, Professor, ME won a bronze award for his presentation on "formability evaluation of FSW blanks made of aluminum sheet: influence of welding speed and tool rotation speed " in the 20th International Symposium on Processing and Fabrication of Advanced Materials (PFAM XX), 15 - 17 December 2011, Hong Kong, China

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing College-industry interface?

College has been developing the Industry liaison by using the following means. Industry experts are involved in curriculum development. They are also invited as resource persons and evaluators for faculty and students programs. Many of industry persons are University Practical/Oral Examiners. They visit College for conduction of examination. College plans visits of faculty and students to industry and interact .Faculty and Students are involved in industry sponsored projects. College organizes visits of students to industrial exhibitions. Apart from this College - Industry interaction cell is established. It meets regularly to enhance the industry participation in the academics.

Objective of Industry Interaction Cell:

- Keep liaising with R&D organization and industry for knowledge sharing
- To bridge gap between College and industry
- Faculty exchange with industry
- To arrange expert lecturers of eminent personalities
- To enhance inherent skill of faculty by arranging visits to industry
- To develop the skill to make the student place able
- Knowledge sharing
- To get acquainted with practical or real word problems
- To explore the talent among industry, student and faculty
- To get acquainted with industry requirement, process, managerial skills
- To take review of curriculum and suggest the industrial supplementary contact as per need of industry and state of art
- It takes the review of research activity carried out in College
- It suggest advance training program College
- They suggest resources lectures, books, magazines
- Periodic evaluation of staff member especially to evaluate the area of research, project training
- College-Industry Interaction Cell of each department interacts with industry to ascertain its needs and if these needs are felt missing in the curricula, the gap is filled by hosting special classes and by providing the required teaching for the students.

- Centralized placement cell of the institution also interact with industries to know their job requirement and the placement officer of this institution acts as a liaison officer between the companies and college management.
- Our College has good alumni base who are currently working with many reputed companies. This group certainly helps us in campus placements
- An assessment is made periodically by the department to ensure the employability objectives of the department – which make sure to prepare the students on par with industry standards.
- The Industry-College Interaction Cell of the department aids in the assessment of student related industry objectives of the department

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

- During Industry College Cell meeting and also through our placement officer the facilities available in the each department and also the possible collaboration arrangements were explained to the experts from various industries
- Consultancy works are very much allowed to carry out in house with the available equipments in the department
- Periodically the updated literature about the institution has been sent to prospective companies highlighting the latest achievements including the facilities available with the department
- Major areas of expertise are announced through department homepage in the main college website and also through technical events/programmes, customized e-mails and public aware talks
- Industrial problems are always solicited to provide solution through expertise of faculty members
- The College has policy of sharing its labs, information resources and faculty expertise for the benefit of society and industries. The College sends the information of the same to the all concerned.
- The faculty visits the organizations and finds out probable domains of consultancy. College encourages the faculty and non teaching staff to develop the in house experimental set ups. It supports the staff to give the consultancy for the same.
- The faculty visits the organizations and finds out probable domains of consultancy. College encourages the faculty and non teaching staff to develop the in house experimental set ups. It supports the staff to give the consultancy for the same.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- College provides facilities and seed money to carry out the consultancy. College deposes the staff for industrial training where they can find the potential for consultancy
- College research committee and HODs have mechanism to identify the expertise of the staff. If required, College deposes the staff for skill development programs

- College organizes the programs on product development, design and research methodology which encourage the staff for consultancy. College provides facilities and seed money to carry out the consultancy
- College deputed the staff for industrial training where they can find the potential for consultancy
- Faculty members are always encouraged by reducing the academic and administrative work load while executing consultancy works with the available equipments without any limitation
- Incentives were given to Principal Investigator from the fund generated through consultancy
- Each department is motivated to develop the multi disciplinary faculties to address the present needs of both students and industries
- The department encourages faculty members to visit industries to supervise the project work carried out by the students in industries and ascertain the possibilities for any consultancy/collaboration activities
- Through personal visits to industries in order to obtain consultancy work
- Always the labs are made available to industry members by extending the working hours of laboratories

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Centre for Research and Consultancy:

The Centre for Research & Consultancy (CRC) was established in 2009 to improve the College-Industry interaction and provide need based technology to existing industries. It is established with a seed grant of Rs. 10 lakhs to carry out basic research in various branches of Engineering and Sciences. R & D center interacts with different funding agencies, identifies their problems and solves them in stipulated time. Since its inception, the centre is carrying out major consultancy projects and many minor projects and testing work. The centre has procured a number of equipments / instruments required for consultancy work. It has also contributed to seminars / workshops and research oriented student's projects. Its aim is to bridge the gap between Industry and College and provide the necessary technical support to industries to solve their problems.

Major Objectives:

- Provide technical assistance to industries and user Organizations / Departments.
- Promote research and develop appropriate technology.
- Promote exchange programmes between industries and the institution.
- Support Short-term courses/Seminars/Workshops for effective dissemination of knowledge.
- Establish testing/consultancy centres in various fields of engineering.
- Procure state-of-the-art equipments required for testing/consultancy.
- Arrange for servicing/repairs of equipments to keep them in good condition.
- Extend the necessary assistance to Staff to attend National/International Conferences, Seminars, Workshops etc.

It is hoped that the centre will continue to grow and become a major consultancy centre in the years to come.

Consultancy:

The Centre for Research & Consultancy (CRC) was established in July 2001 to improve the College-Industry interaction and provide need based technology to existing industries. The centre has procured a number of equipments / instruments required for consultancy work. It has also contributed to seminars / workshops and research oriented student's projects. Its aim is to bridge the gap between Industry and College and provide the necessary technical support to industries to solve their problems. It is hoped that the centre will continue to grow and become a major consultancy centre in the years to come.

Major Objectives:

- Provide technical assistance to industries and user Organizations / Departments.
- Promote research and develop appropriate technology.
- Promote exchange programmes between industries and the institution.
- Support Short-term courses/Seminars/Workshops for effective dissemination of knowledge.
- Establish testing/consultancy centres in various fields of engineering.
- Procure state-of-the-art equipments required for testing/consultancy.
- Arrange for servicing/repairs of equipments to keep them in good condition.
- Extend the necessary assistance to Staff to attend National/International conferences, Seminars, Workshops etc.

Centres of Excellence

Vardhaman has over nine centers of excellence, which are dedicated lab spaces for the improvement and enrichment of engineering knowledge. The centres have been successful in gauging the interest of the students and to mould their minds towards research.

The following are the centers of excellence:

- Center for Knowledge Discovery and Data Mining in Environment, Science and Engineering (KDDM)
- Centre for CADENCE VLSI Software (CADENCE)
- Centre for Renewable Energy and Sustainable Technology (CREST)
- Software Development and Solution Centre (SDSC)
- Centre for e-Learning
- Centre for Nanotechnology

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

College has policy of sharing the income generated through consultancy. The share is given to the faculty, administrative staff involved in consultancy. Appropriate share is given to College which is used for development of consultancy facilities.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

College involves the faculty and students in community network. This makes the students learn good values and responsibilities, required for good citizenship, service orientation and holistic development.

- The social programs like blood donation camps, tree plantation are organized for the students.
- Faculty members and students visit the social organizations and help them by donating the material as per need.
- Students regularly publish the articles in the newspaper which help to literate the common man for development in technology.
- College organizes the lectures and programs on value based education.
- Students of College along with other social organizations organize health check up camps for needy people.
- College has National Social Service (NSS), which organizes the community programs. It also organizes 3 to 6 days, NSS Camp in village. The camp helps to understand the rural life, problems of villagers and probable engineering solutions for the same. The Renowned social workers guide students in the camp.
- The student community is being helped by implementing the government reservation schemes and offering good scholarships for both merit and economic basis. The major strength of this college is its ability to ensure holistic development of students to make them responsible citizens by teaching the moral values.
- The college management always motivates the students' social participation and also drives to achieve its goal of providing higher technical education to create equitable society with ethical values. To provide quality based education to the students by inculcating moral values, scientific temper and employing state of art technologies.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

College takes feedback from the social organizations and other related elements about involvement of students in social activities. Students submit certificates and attendance of participation in social activities to College. Coordinator also collect information from the concerned students.

We have various social movement/activities available for students to involve themselves i.e NCC (Air, Navy, and Army), NSS, YRC, LEO. One faculty is in charge for the above activities to make the students to participate in those activities.

Through faculty advisors, the student involvement in various social movement activities is observed and also motivated. Faculty advisors are the one to give the required permission to students for participating in such activities and continuously to monitor their progress in such extension activities. Faculty ad-

visor has to file the student achievement in such extension activities in the respective advisor file for record purposes.

Extra-curricular activities and value education provides avenues to students to become aware of the social environment, the social evils, citizen responsibility and individual contribution to make the society a better place to live. Periodic and regular meetings are conducted for highlighting the social and ethical values.

The institutional mechanism to track student involvement in various social movements activities which promote citizenship are as follows

- Encouraged to the students to be the member of social activities forum in the college like
 1. Youth Red Cross (YRC)
 2. Red Ribbon Club (RRC)
 3. Eco Club
 4. Robotics Society
 5. Inner Engineering Society
 6. National Service Scheme (NSS) Wing
 7. Organizing Health Club and etc

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The stake holders are invited to visit the campus and its various infrastructural facilities, interact with the members of faculty to obtain necessary information on the overall performance and quality of institution. Parent-Teachers meeting are regularly being conducted to know about academic performance and quality of their wards and to provide constructive suggestions to improve the overall performance and quality of their wards and quality of institution.

Periodically performance reports are being sent to the stake holders through SMS, e-mails, web publication and also through hard copies.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

College carry out survey of the areas where the society and academic community need the extension and outreach programs.

It also identifies the resource persons and faculty exercise. This helps to plan the programs. College has its own budget for the programs. Apart from this College applies for funding to University to carry out the programs. College got the funding from University. College has IIT, Mumbai, Remote Center which also delivers programs which are open to students and faculty members. College invites the industry persons and other interested persons to attend the programs.

Budgetary details are as follows:

S No.	Name of Programme	Budget amount in Rs. in lakhs			
		2009 - 2010	2010 - 2011	2011 - 2012	2012 - 2013
1.	QIP programs	0.90	1.21	1.10	1.91
2.	Faculty development program	1.11	5.66	0.81	6.24
3.	Orientation program	0.50	0.65	0.71	0.75
4.	NSS activity	0.20	0.23	0.21	0.27
5.	Blood donation	0.05	0.06	0.05	0.07
6.	Alumni Meet	0.10	0.15	0.16	0.17
7.	Parents Meet	0.06	0.09	0.10	0.12
8.	Others	0.50	0.60	0.50	0.70

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The arrangement made to encourage the students and faculty participation in NSS, NCC, YRC and National / International agencies are as follows:

- A blood group database has been required for the entire college students, teaching and non- teaching staff, principal and management members
- Provision has been made, interested persons may donate blood at the time of requirement
- Students and staff members has gone to different places to provide relief at the time when it is required
- Health camps has been organized in nearby villages
- A survey has been made in order to provide proper education to the school children
- Time to time plantation programme is carried out in and out of the college
- Awareness camps regarding environment / AIDS has been conducted among the students in an regular interval

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The College is sensitive to social issues and has instinctively undertaken works related to providing social justice and in empowering students from under privileged and vulnerable section of society as a response to student's feelings.

College has organized following social activities.

- Blood Donation Camps
- Poster Presentations to create awareness about pollution, e- waste, Non Conventional Sources of Energy
- Distribution of blankets to under-privileged class
- NSS has conducted a Traffic Awareness Campaign, highlighting the safety rules
- NSS has conducted One Day Voters Awareness Programme

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

Engineers are the backbone of the country; they must know the weakness and strength of our society. Simultaneously they should aware what the society is have and not have. The extension activities organized by the institution make them aware about the need and the necessity of our society. This made them easy to decide their role in the society. Therefore all these activities help them to build themselves and to take part to the nation building process.

- The outcomes of the extension activities help lot to develop the overall personality of the students. These in turn are useful for getting good employment.
- The extension activities help to student to understand real life problems. Student can develop lifelong learning skills. They can apply the knowledge to solve the community problems.
- The extension activities expose the students to rural life and possible application of technology to make village life comfortable.
- The entrepreneurship skills are also developed among the students.
- The extension activity motivates the students to peruse higher studies.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

College does the survey of the society needs and accordingly organizes the activity. College faculty and students visit the community and as per their need plan the activities. The community stake holders are invited for the community programs and their suggestions are welcomed. As per need College organizes the development program at community places (e.g. villages) or in College. College organizes cultural programs at schools and involves people in the programs.

The details on the initiative of the institution that encourage community participation in its activities are as follows:

- Plantation
- Blood donation camp
- Awareness Camp
- Yuga classes
- Orientation Programmes with the presence of eminent persons in the field of science, medicine, literature, art and social service.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The details on the constructive relationship forged with other institution of the locality on various outreach and extension activities.

By encouraging the students to participate in community activities such as

- Rural camps
- Tree plantation and Environmental awareness camp
- Eye Donation Awareness Camps
- Blood donation camps

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Recognition for participation and providing service in all extensions through certificates given to both faculty and students. Students are suitably considered for award of marks in their internal assessment. Students are recognized for their assessment, provided certificates and awards, cash rewards. Scholarship in fee concession also facilitated. Their active participation carries weight age for their promotion and assessments.

Details of the awards received by the institution for extension activities and contribution to the society community development.

- Best Engineering College Chapter award (2011) by ISTE , ISTE Chapter
- Top performing college one among top 30 colleges in India (2011) by The Great Mind Challenge (TGMC 2011), IBM

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, Colleges and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Through interactive sessions with industry experts by way of periodic meetings

- Deputing faculty members for exposure to industrial practices
- In plant training and industrial visits for students
- Guest lectures by industry experts on state of art technologies
- Getting permission to carry out experiments in Colleges of repute
- Permission to make use of software and hardware by research candidates of other institution
- Allowing incubation of startup companies
- Faculty sent on sabbatical leave to other Colleges of higher learning through faculty exchange Programme.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The institution has MOUs with the following Colleges and industries:

- Infosys campus Connect
- IBM Software centre of excellence
- Indo-U.S. Collaboration for Engineering Education (IUCEE)
- University of Massachusetts (UMASS)
- American Society for Engineering Education (ASEE)
- Cisco Networking Academy
- Sun Microsystems
- TATA Consultancy Services

College has collaboration with Indo US Collaboration for Engineering Education (IUCEE).The College faculty attends the academic leadership programs of IUCEE. College also avails webinars of IUCEE.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

The major interactions and related outcomes are as follows.

- The College faculty has attended the Training programs organized by INFOSYS and IUCEE. This resulted in exposure of faculty to state of art in the related areas.
- College collaboration with WIPRO resulted in the MISSION 10X program for training of faculty. The academic leaders of College have also participated in the special training programs. This improved teaching learning and academic leadership.
- The College has interacts with research organizations like DRDL and gets guidance of experts. It also gives opportunity to study the developments in communication and Nano Technology.
- The College organizes visits of students and faculty members to industries like Infosys, TCS, DRDL, DRDO, INCOIS, Steel Plant, NTPC etc which enhances the knowledge of students.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

College invites people from reputed academic and R&D institutions to share their experience and encourage the faculties and students for research work. Some of the eminent persons visited the College on different occasions are:

- Dr Krishna Vedula, Professor and Dean Emeritus, University of Massachusetts Lowell Immediate Past President, (IFEES) International Federation of Engineering Education Societies Executive Director (IUCEE), Indo US Collaboration for Engineering Education, USA
- Dr R Bala Venkata Subramanyam, Department of Computer Science & Engineering, National College of Technology, WARANGAL
- Dr D V L N Somayajulu, Professor, Department of Computer Science & Engineering, National College of Technology, WARANGAL
- Mr A K Pattabiraman, Head – Accreditation, Tata Consultancy Services, Chennai. College organizing International Conference on Advances in Mechanical Sciences (ICAMS 2014) during 9 -11 January, 2014.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated

- a) Curriculum development/enrichment
- b) Internship/ On-the-job training
- c) Summer placement
- d) Faculty exchange and professional development
- e) Research
- f) Consultancy
- g) Extension

- h) Publication
- i) Student Placement
- j) Twinning programmes
- k) Introduction of new courses
- l) Student exchange
- m) Any other

a) Curriculum development/enrichment

The institution has MOUs with the following Colleges and industries:

- Infosys campus Connect
- IBM Software centre of excellence
- Indo-U.S. Collaboration for Engineering Education (IUCEE)
- University of Massachusetts (UMASS)
- American Society for Engineering Education (ASEE)
- Cisco Networking Academy
- Sun Microsystems
- TATA Consultancy Services

College has collaboration with Indo US Collaboration for Engineering Education (IUCEE). The College faculty attends the academic leadership programs of IUCEE. College also avails webinars of IUCEE.

VCE through the above MOUs will get valuable inputs to raise curriculum standards on par with International standards.

b) Internship/On-the-job training

Every department has MOU arrangements with other leading industries to depute their students for internship or on the job training in their field of expertise. Final year students are going for Internship and final year curriculum projects to various Research organizations and Industries like DRDL, DRDO, Bharath Electronics, INCOIS etc.

c) Summer placement

Students are encouraged summer placement at various organizations such as BSNL, Ashok Leyland, INCOIS and Industries like Infosys, TCS and IBM etc.

d) Faculty exchange and professional development

Cadence Design Systems, Bangalore have given training for Electronics & Communication faculty members during summer vacation on various aspects of VLSI tools. Training for students provided by VCE faculty.

e) Research

Various workshops and conferences are regularly being organized at VCE using MOU arrangements.

The following table gives the details about the grants received from the industry / other funding agencies and several items were procured from such special grants.

S. No.	Sponsor	Research Facility Created	Department	Amount in lakhs	Status / Sanctioned Year
1	AICTE-RPS	Design, Development and Analysis of Routing Algorithms for Wireless Sensor Networks: Applications in Environment Monitoring and Disaster Relief	ECE	Rs: 16.00 lakhs	2013
2	AICTE-MODROBS	Knowledge Discovery and Data Mining in Engineering, Science and Environment	CSE	Rs.6.9 lakhs	2013
3	AICTE-MODROBS	Modernization of Electrical Simulation Lab	EEE	Rs.7.0 lakhs	2012
4	AICTE-MODROBS	Data Mining for Business Intelligence work station setup and computer animation multimedia and web design Lab	IT	Rs.7.0 lakhs	2012
5	DRDO	Investigation and Development of Bismuth – Layered Perovskite Ferroelectrics for Piezoelectric Application	Basic Sciences	Rs.14.95 lakhs	Ongoing
6	BRNS	Development of Bismuth-Layered Perovskite Ferroelectrics thin films suitable for high temperature sensor Application	Basic Sciences	Rs.19.85 lakhs	Ongoing
7	AICTE	Fabrication and characterization of Lead free Environment friendly ferroelectrics suitable for Integrated sensor Device	Basic Sciences	Rs.7.5 lakhs	Submitted
8	DST	Application of Environment friendly Piezoceramics for transducers in Automobile Industry	Basic Sciences	Rs.23 lakhs	Ongoing
9	CSIR	Investigation of Ferroelectrics for Memory Applications	Basic Sciences	Rs.4.76 lakhs	Submitted
10	APCOST	Investigation of Electrical Properties of Perovskite Ferroelectrics	Basic Sciences	Rs.4.55 lakhs	Submitted

f) Consultancy

- During Industry College Cell meeting and also through our placement officer the facilities available in the each department and also the possible collaboration arrangements were explained to the experts from various industries
- Consultancy works are very much allowed to carry out in house with the available equipments in the department
- Periodically the updated literature about the institution has been sent to prospective companies highlighting the latest achievements including the facilities available with the department
- Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programmes, customized e-mails and public aware talks
- Industrial problems are always solicited to provide solution through expertise of faculty members
- The College has policy of sharing its labs, information resources and faculty expertise for the benefit of society and industries. The College sends the information of the same to the all concerned.
- The faculty visits the organizations and finds out probable domains of consultancy. College encourages the faculty and non teaching staff to develop the in house experimental set ups. It supports the staff to give the consultancy for the same.
- The faculty visits the organizations and finds out probable domains of consultancy. College encourages the faculty and non teaching staff to develop the in house experimental set ups. It supports the staff to give the consultancy for the same.

g) Extension

VCE has strong and very active collaboration arrangement with good number of NGO / Service Organization for doing lots of extension activities.

h) Publication

Many publications by students and faculty resulted due to collaborative / MOU arrangements with industries / research laboratories.

List of Publications included departmentwise faculty in the department profiles.

i) Student Placement

- Collaboration with industries like Infosys, IBM, TCS, Cadence etc., resulted in students placement
- A large number of esteemed organizations visit our campus for giving students placements regularly. TCS, Tech Mahindra, Mahindra Satyam, Robert Bosch, Syn-tel, Red pine signals are few among them.

j) Twinning programmes: Nil

k) Introduction of new courses

One new PG course M.Tech - Structural Engineering started in the academic year 2013 -2014. UG student intake had been increased from the previously sanctioned intake in few departments from the year 2013 - 2014.

l) Student exchange

Our collaboration with College has collaboration with Indo US Collaboration for Engineering Education (IUCEE) is intended for exchange of faculty and students for mu-

tual benefit. The College faculty attends the academic leadership programs of IUCEE. College also avails webinars of IUCEE.

m) Any other

Recently Sales Intellect Company signed MOU with VCE, to enhance the Industry College Interaction. They delivered a series of special Lectures on “Ethical Hacking and Computer Forensics”. As part of the MOU, IBM has set up a “IBM SOFTWARE CENTER OF EXCELLENCE LAB” in the College and also conducts suitable certification training courses and certification examinations. Infosys Campus Connect conducts FDPs, Aspirations 2020, and Spark Programme etc.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

- Institution has planned and established linkages/collaborations related to academic and research activities with various industries and research Colleges to implement training programs for students and faculty members in various specializations.
- College enters into MOU arrangements with various establishments mainly to establish the linkages / collaborations related to academic and research activities.
- Inviting Expertise from various divisions from other industries for delivering Guest Lectures, key note address in Conferences, invited speaker in workshops and symposiums.
- Establishing Industry College Interaction cell in the department and conduct of periodical meeting of the cell.
- Considering programs offered, faculty expertise and infrastructure available, College plans and develops the linkages and collaborations with industry and research organizations. College offers the labs, library, training and other facilities for development of linkages.
- It develops the liaison with the related industries and organizations through new letters, visits, inviting the concerned persons for visits, arranging faculty visits. College gives facilities available.
- College Industry Cell also gives advice for enhancing the collaboration/linkages.
- College encourages the students and faculty to undertake industry sponsored projects.
- College offers the labs, library and other facilities for development of linkages.

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The College's has the following policy:

1. As per policy norms of VCE, infrastructure is with inherent qualities of excellent Clean and green concepts equipped with state-of-the-art ICT facilities.
2. The College strictly follows the norms of the AICTE. Based on the requirement, college enhances its infrastructure from time to time so as to facilitate effective teaching , academic growth.
3. The library have 9851 titles, 53722 Volumes, Subscribed 7363 online journals, Web based recourses are available as online learning recourses.
4. All class rooms are equipped with multimedia facilities by providing audio-visual equipment and also having Webinars center which facilitates the video conference for effective learning process.
5. The college website www.vardhaman.org is fully automated with all course contents in e-recourses to make very much available to students.
6. The VCE campus infrastructural facilities are extending a great support to conduct academic, co-curricular, extra-curricular activities, placements and sports activities.
7. VCE had very good infrastructure which is having spacious class rooms, adequate laboratories, Library with reading room, Internet with Wi-Fi connection within the college campus, two Auditorium, Canteen, Transport facility, Play ground, Boys & Girls hostel in the campus.
8. The campus is facilitated modern infrastructure for the research activities in various departments. VCE is also planned to enhance the existing facilities for research activities.
9. There is still ample space for infrastructural expansion.

YES, College has applied for research center of the Jawaharlal Technological University, Hyderabad (JNTUH), Hyderabad.

4.1.2 Detail the facilities available for

- a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The campus is spread over 14.6 acres of land which facilitates excellent infrastructure for teaching learning process, carrier progression, higher education. The campus main building called Block-1 that accommodates

Administrative office, Examination Branch, the departments of CSE, IT, MBA, MCA. There are 3 other academic buildings within the campus i.e. Block-2, Block-3 and Block-5. Block-2 accommodates the Departments of Mechanical Engineering, Civil Engineering and Aeronautical Engineering & Placements. Block - 3 accommodates the Departments of Electrical & Electronics Engineering, Electronics & Communication Engineering. Block-5 accommodates the Departments of Humanities & Sciences and Placements.

Facilities available for Co curricular Activities:

There are 77 class rooms with LCD projectors, Internet connectivity, audio –visual facilities, 17 tutorial rooms, 9 seminar halls one for each department, 2 Auditoriums. Teaching aids which are having state of art ICT.

Teaching aids are Computers, Laptops with internet facility assisting teachers to access online professional learning with local support to analyse, plan and implement changes to their teaching approaches and to access quality online resources and others are LCD Projectors, OHP's, Display Boards, digital cameras, reprographic facility etc are available.

VCE campus has 600 seating capacity of well equipped acoustic Auditorium with A-View software where faculty & students can attend workshops and seminars organized globally and interact with eminent speakers. There is E-class room for individual department where the department can organize the Technical Seminars, events, Activities of their concerned departments.

- b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

Sport is an integral part of the curriculum, various sports facilities is provided to the students within the campus. The college is committed to create a balanced atmosphere of academic, cultural and sports activities for the overall personality development of its students. Various sports competitions such as inter departmental, Inter collegiate, Inter University, etc help in developing team spirit in students. Their interpersonal relationship is enhanced in a very healthy manner. Students are provided with honors like medals, trophies and certificates.

Following facilities are available for Games and Sports: Cricket Ground with flood lights, Two Basket Ball Courts, One Tennis Court, Two Volley Ball Courts, Two Badminton Courts, Four Table Tennis Tables (Indoor), Long jump and High jump arenas.

GYMNASIUM: A state-of-the art gym with modern, imported equipment.

All the above games have sports equipment of International standard & is accessible to all students, who may be interested in improving their health as well as to all those who are interested in participating in sports competitions.

Another open auditorium with a seating capacity of 2000 is available for cultural activities and public speaking.

The Consolidated Infrastructure Details are.

Built-up Area Details:

Available Areas	Areas in Sqm
Total built up area available	36932.18
Instructional area (carpet area)	20041.7
Administrative area (carpet area)	2645.6
Amenities area (carpet area)	5660.8
Circulation & others (carpet area)	8584.1
Grand Total	36932.18

Instruction Area Details:

Available Areas	Number	Areas in Sqm
Class rooms	77	5576.2
Tutorial rooms	17	694.3
Seminar rooms	9	1553.3
Drawing halls	1	149.4
Computer centre	3	589.3
Library	3	2788
Labs / Workshops	101	8691.2
Total	212	20041.7

Administration Area Details:

Available Areas	Number	Areas in Sqm
Principal room	1	36.5
Head of section rooms	9	120
Faculty rooms	9	1619.3
Administrative staff office	10	527.5
Stores	1	30.7
Confidential room	1	32.1
Reception lounge	1	50.0
Conference rooms	1	57.7
Others	5	171.8
Total	37	2645.6

Amenities Details:

Available Areas	Number	Areas in Sqm
Boys common rooms	1	106.2
Girls common rooms	2	139.4
Sports & recreation centre	1	217.5
Canteen	1	492
Health centre	1	11.7
Others	8	4694
Total	14	5660.8

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

As per the academic growth, the institution continuously enhances its infrastructure to keep pace with changing needs. The Infrastructure facilities increased during the last four years:

Years	Built- up Area Particulars	Built-up area (sq mts)	Amount Spent (Rs. In Lakhs)
2012-2013	UG, PG Class Rooms, Tutorial Rooms	1352.2	3.5
2011-2012	UG, PG Class Rooms, Tutorial Rooms	5121.4	398.14
2010-2011	UG, PG Class Rooms, Tutorial Rooms	1200	174.77
2009-2010	UG, PG Class Rooms, Tutorial Rooms	1000	232.78

The infrastructure planned for 2013-2014

Infrastructure	Amount	Infrastructure Amount Spent	Comments (if any)
Research Lab	20 Lacks		Planned
All labs Innovations	10 lacks		planned

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

For students with special needs, the faculty do their utmost to support and facilitate the students' learning. The facilities that may be provided or supported in individual courses include an editor service to help those with reading and writing difficulties, and access to a personal mentor within the college. College is planning for lifts for easy access to upper floors. The College is also sensitive to special requirements of the physically disabled students and has made provisions for classes on the ground floor, but no such cases are found.

4.1.5 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- Hostel Facility – Accommodation available
- Recreational facilities, gymnasium, yoga center, etc.
- Computer facility including access to internet in hostel
- Facilities for medical emergencies
- Library facility in the hostels
- Internet and Wi-Fi facility
- Recreational facility-common room with audio-visual equipments
- Available residential facility for the staff and occupancy Constant supply of safe drinking water
- Security

*** Hostel Facility:**

Vardhaman college of Engineering hostel is just another home for the students. As a 24 x 7 campus, the hostel gives the comfort and feel of being with one's family. Vardhaman College of Engineering at Kacharam is a walled campus with a single entry and 24-hour security.

Adequate in-campus accommodation for all categories of students is:

Three hundred seated (300) new Boys hostel is fully operational. Three hundred (300) new Girls hostel is fully operational. A new thousand seated hostel is going to be built. Every effort has been made at the Vardhaman College of Engineering to provide the best facilities for students who live on campus. Every student has access to a wide range of activities, facilities and support. Besides the regular hostel dining facilities, there are affordable food services on campus that provide inexpensive and easily accessible lunchtime or evening options.

24-hour 'Reverse Osmosis' purified clean drinking water. The HDFC, ATM is operational on the campus. 24-hour medical facilities for emergencies and ailments.

* **Recreational facilities, gymnasium, yoga center, etc.**

A separate yoga and meditation room is available for boys and girls. A state-of-the art gym with modern, imported equipment. All the above games have sports equipment of International standard & is accessible to all students, who may be interested in improving their health as well as to all those who are interested in participating in sports competitions.

* **Computer facility including access to internet in hostel.**

24-hour Internet connection in the rooms with access to the college On-line Library and Learning Systems. Wi-Fi enabled campus so you can always stay connected, wherever you roam.

* **Facilities for medical emergencies :**

Healthcare facilities are available round the clock at the VCE Health Centre. It has 04 beds, 02 consultation rooms and pharmacy. One full time doctor and a part time doctor are employed to render 24 hours service, with support from staff nurse. All treatment, consultation & medicines including lab investigations are done free of cost for all students, staff & staff dependents. One ambulance is available all at the campus for emergencies. In case of necessity medical facilities are available at Trident Multi Specialty Hospital, Shamshabad and Indira Super Specialty Hospital, Shamshabad. At a distance of 20 km advanced medical facilities are available at Osmania Government Medical College, Hyderabad.

* **Library facility in the hostels :**

Library and Hostel both are in the same premises. Library is open from 8. 00 A M to 8.00 P M. The Hostel students can utilize the library facility. 24-hour Internet connection in the rooms with access to the college On-line Library and Learning Systems.

* **Internet and Wi-Fi facility :**

Internet facility is available for all systems in the whole campus. The entire campus is optically networked between buildings and cable within the buildings for connectivity. In addition, Wi-Fi facility

is provided in all the buildings. Dedicated bandwidth of 20 Mbps is taken from a single source. In addition each building /department of importance like examination center, remote center for online workshops, placement cell, and library have dedicated bandwidth of 20 Mbps.

* **Security :**

In terms of security norms, one police control room is near by the college. Within the premises 20 security guards are there to secure the campus.

The college is planning for providing residential facility for the staff and the campus is equipped with its own water carriers, storage reservoir and pumping facilities and RO plant. RO treated drinking water is distributed to Every Classroom, Laboratory and all instruction, administrative and amenities halls.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

Arrangement for emergency medical care:

Number of Medical practitioners	:	1
Number of nursing staff	:	1
Medical facility within the College/College	:	Dispensary

A Dispensary with modern equipment and facilities to cater to the general medical needs of the students, staff and faculty is available on the campus.

Medical facility nearby :

In case of necessity medical facilities are available at Trident Multi Specialty Hospital, Shamshabad and Indira Super Specialty Hospital, Shamshabad. At a distance of 20 km advanced medical facilities are available at Osmania Government Medical College, Hyderabad.

Availability of first-aid unit: (2)

(Instruction: The institution needs to report the availability of the facilities discussed here.)

No. of ambulances within the College : 1

Facility in ambulances : First aid and other Equipment

Emergency

Response-time in calling ambulance services from outside : 15 minutes

Apart from the medical care VCE is giving Counseling facility also. Psychological and psychiatric counseling to the students are arranged through guest lectures and interactive sessions by professional counselors. These kinds of activities are arranged for every semester of academic programme.

Name of the Counselor:

1. Dr. Vemula Srikanth, MD (Gen Med.) JIPMER, DM (AIIMS) General Physician & Neuro Surgeon
2. Dr. K. V. S. G. Murali Krishna, Director
Director Foreign Universities and Alumni Relations
JNTU, Kakinada.

Apart from the above faculty of respective departments are allotted as counselors for II, III and IV year students to regularly monitor academic and non academic issues of the students.

I year faculty are allotted exclusively for the I year students as counselors. Resident wardens are available in hostels to deal with psychological and emotional problems of hostel inmates.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The academic administration of the College is decentralized and transparency is maintained by constituting the following committees with senior faculty members:

1. Admissions Committee
2. Examination Committee
3. Placement and Training Committee
4. Library Committee
5. Audit, Quality Control And Planning Committee
6. Students Welfare and Extracurricular Activities Committee
7. Alumni Committee
8. Anti-Ragging Committee
9. Disciplinary Committee
10. Sports and Games Committee
11. Grievance Redressal Committee
12. Women’s Cell

1. ADMISSION COMMITTEE

Members:

1. Prof. Y Pandurangaiah, Professor & Head of ECE - 9550070033
2. Sri. A Bhanu Prasad, Associate Professor of IT
3. Prof. N Srinivasa Reddy, Professor and Head of ME
4. Sri. K. Madhusudan Reddy, Associate Professor of Mathematics

Functions:

1. To evolve the procedure for the registration on the day of orientation.
2. To make necessary arrangements for the orientation programme of I year students.
3. To prepare nominal rolls
4. To follow up the tuition fee payments, and fines if any.
5. To settle the accounts of tuition fee, admission fee etc., paid by the students.

2. EXAMINATION COMMITTEE

Members:

1. Prof. L V Narasimha Prasad, Professor of CSE & COE - 9490182900
2. Sri R Madana Mohana, Associate Professor of CSE
3. Sri. A Bhanu Prasad, Associate Professor of IT
4. Ms. E. R. Aruna, Associate Professor of IT
5. Sri. V. Muni Sekhar, Associate Professor of IT
6. Dr. Ch. Chinna Rao, Associate Professor of Chemistry

Functions:

1. To suggest innovative paper setting, valuation methods.
2. To deal with malpractice cases in consultation with concerned HODs and subject experts.
3. To suggest improvements for conducting the exams.
4. To examine whether the syllabi coverage and paper setting (in case of mid-term exams) are as per the guidelines

3. PLACEMENT AND TRAINING COMMITTEE

Members:

1. Prof. L V Narasimha Prasad, PAT Officer - 9490182900
2. Sri. D Manoj Reddy, Assistant PAT Officer
3. Sri. Md Asif, Associate Professor of EEE
4. Sri. S Rajendar, Associate Professor of ECE
5. Sri. K Deepak, Associate Professor of ME
6. Sri. A. Krishna Chaitanya, Associate Professor of IT

They may also co-opt two student members each from III B.Tech, IV B.Tech & MCA Classes

Functions:

1. To help the PAT Officer to maintain contacts with Alumni.
2. To help the PAT Officer to organize the various processes like written test, group discussion, technical interviews, H R interviews when the companies come to the campus for placement.
3. To organize activities aimed at improving College - Industry - Interaction.
4. To coordinate the soft skills training programmes of the respective departments.

4. LIBRARY COMMITTEE

Members:

1. Dr. B. Venkatesh, Professor of ME - 9848408802
2. Ms. V Kavitha, Associate Professor of Mathematics
3. Ms. E. R. Aruna, Associate Professor of IT
4. Ms. M. Srilatha Reddy, Librarian

Functions:

1. To prepare the lists of books as per the requirement of various departments.
2. To suggest improvements to run the library smoothly, orderly and satisfactorily.
3. To suggest the fine structure for the late returning of books.
4. To suggest the punishments to be awarded for the students violating the guidelines of the library.

5. AUDIT, QUALITY CONTROL AND PLANNING COMMITTEE

Members:

1. Prof L. V. Narasimha Prasad, Professor & Head of CSE 9490182900
2. Dr. Hari Krishna, Professor of ECE
3. Dr. B. Venkatesh, Professor of ME
4. Sri R. Madana Mohana, Associate Professor of CSE
5. Sri. A. Bhanu Prasad, Associate Professor of IT

Functions:

1. Academic planning & Academic audit
2. To send proposals to AICTE, UGC etc for continuation of approval
3. To send the proposal to University for extension of affiliation.
4. To co-ordinate among the departments to apply for various schemes / grants to AICTE, UGC etc.
5. To coordinate the research and consultancy activities among the departments in the college.

6. STUDENTS' WELFARE & EXTRA CURRICULAR ACTIVITIES COMMITTEE

Members:

1. Prof. D Shobha Rani, Professor & Head of EEE - 9550080044
2. Dr. V. S. Prabhakar, Professor of ME
3. Sri. A Bhanu Prasad, Associate Professor of IT
4. Faculty in-charges of ISTE students chapter & IEEE students chapters

Functions:

1. To suggest various co-curricular & extracurricular activities to be organized in an academic year.
2. To suggest various improvements for the existing bodies such as ISTE student chapter, IEEE student chapter and Art of Living.
3. To prepare proposals for conducting State Level and National Level events in co- curricular and extracurricular activities.

7. ALUMNI COMMITTEE

Members:

1. Prof. N. Srinivas Reddy, Professor of Mechanical Engineering- 9849964005
2. Sri. H. Venkateswar Reddy, Associate Professor of CSE
3. Sri. S Rajendar, Associate Professor of ECE
4. Sri. T.C. Srinivas Rao, Associate Professor of EEE
5. Sri. N. Venkat Rao, Associate Professor of CIVIL

Functions:

1. The VCE alumni committee invites you to MITRA (Member Ideas sharing in Technical Reunion Association)
2. Adopt the Alumni Association core values of excellence, lifelong relationships, lifelong learning, inclusiveness and diversity
3. Support a strong relationship between the Alumni Association and current students
4. Assist current students and alumni in career planning, placement and transitions
5. Support the College through an annual gift commensurate with your personal circumstances and encourage other alumni to do the same

8. ANTI-RAGGING COMMITTEE

Members:

1. Dr. V. S. Prabhakar, Professor of ME - 9618431428
2. Dr. P. Sarah, Vice- Principal
3. Prof. D. Shobha Rani, Professor and Head of EEE
4. Prof. Y. Pandu Rangaiah, Professor and Head of ECE
5. Dr. K. Harikrishna, Professor of ECE
6. Sri. H. Venkateswara Reddy, Associate Professor of CSE
7. Prof. N. Srinivas Reddy, Professor & Head of ME
8. Sri. MD. Asif, Associate professor, EEE

Functions:

1. Formed Anti Ragging Committee consisting of senior faculty and headed by Principal.
2. Persons not only from college but also from surrounding areas (i.e. residents and leaders) are also will be participating in Anti-Ragging Activities.
3. Committee has taken steps and allotted duties to all the staff members at almost all areas in the college (i.e. canteen, parking places, different blocks, play grounds etc.) and ensure that at least one faculty member will be present at any particular time at all the locations to avoid ragging activities.
4. Committee has taken precautions to avoid ragging activities at other locations like bus stops and given instructions and appointed student volunteers and secret informers at various boarding points.
5. Wide canvassing about anti-ragging, is being done in the forms of Flexes, Posters and Boards in college premises and surrounding areas where there is a chance of ragging.
6. Grievances & Redressal committee is also made a part of these anti-ragging activities.
7. Many awareness programmes about Anti Ragging will be conducted by Anti Ragging Committee in the form of meetings and PPTs to the senior students, faculty & non-college personnel.

9. DISCIPLINARY COMMITTEE:

Members:

1. Dr. V. S. Prabhakar, Professor of ME - 9618431428
2. Prof. D Shobha Rani, Professor and Head of EEE
3. Prof. Y. Pandu Rangaiah, Professor and Head of ECE
4. Dr. B. Venkatesh, Professor of ME
5. Sri. H. Venkateswar Reddy, Associate Professor of CSE
6. Sri. A. Bhanu Prasad, Associate Professor of IT
7. Sri. Md. Asif, Associate Professor of EEE

Functions:

1. To be regular and punctual to the classes and to be in the class at least 5 minutes before the commencement of the period. Everyday's cumulative attendance of the student will be sent to their parent's mobile as SMS. So the student should update his/her mobile no. and their parent/guardian mobile number if changed.
2. To attend all counseling sessions convened by their mentors and should feel free to explain their academic/ personal/ career difficulties and seek their solutions

3. To note that any violence on the campus, destruction of college property, manhandling of teachers or administrative staff or any other person in the college campus or the authorities of the college and misbehavior with girl students will be viewed seriously. Erring persons will be liable for disciplinary action such as expulsion or rustication for specific period etc.
4. To note that ragging in any form, within or outside any educational institution is strictly prohibited (refer Prohibition of Ragging in Educational Institutions Act 26 of 1997). Any student convicted of the offence of ragging will be punished with imprisonment as laid down in the said Act.
5. Class Representatives must attend the meetings convened by the Principal and inform the decisions taken in the CRs meetings to their respective classmates.
6. To note that in all discipline matters the decision taken by the Principal is final and will be binding on all the students involved.

10.SPORTS AND GAMES COMMITTEE

Members:

1. Sri. D. Manoj Reddy, Associate Professor of Freshman - 9440599220
2. Sri. A. Bhanu Prasad, Associate Professor of IT
3. Sri. C. Satya Kumar, Assistant Professor of CSE
4. Sri. M. Rajasekar Reddy, Assistant Professor of CE
5. Sri K. Santosh Reddy, Assistant Professor of Mathematics
6. Sri V. Sreedhar, Assistant Professor of ME
7. Sri D. Damodhar Reddy, Assistant Professor(Sr.) of EEE

The convener may also Co-opt one student member each from I, II, III & IV B. Tech, MCA and MBA Classes and one girl student.

Functions:

1. To prepare sports calendar and an action plan to implement the same.
2. To suggest the methods which encourage students and faculty to utilize sports and games facilities available in the college
3. To take up the responsibility of preparing the budget estimate, requirement of infrastructure and equipment, maintaining the equipment and play fields.
4. Selection of teams to represent the college in inter-collegiate tournaments and also the intramural tournaments.
5. To prepare the details of attendance exemption to be given to the students representing college in various sports and games
6. To increase the cordial relations between students and faculty by organizing exhibition games between the teams of students and faculty wherever possible.

11. GRIEVANCES REDRESSAL CELL:

Grievances Redressal Cell is formed in order to keep the healthy working atmosphere and to uphold the dignity of the College by ensuring strife free atmosphere in the College to promote cordial Student to Student relationship, Student to teacher relationship and Staff to Staff relations etc. This Cell also helps Staff, Students and Parents to record their complaints and solve their problems related to academics, resources and personal grievances.

Woman Harassment complaints will be handled by WOMEN'S GRIEVANCE REDRESSAL CELL as per Government guide lines.

Suggestion / complaint Boxes have been installed at different places in the College campus in which the Students/staff, who want to remain anonymous, put in writing their grievances and their suggestions for improving the academics/administration in the College

Students, Parents and staff can lodge a complaint. Students can also lodge Ragging complaint. The person concerned can personally approach and write / e-mail any member of the Cell. They can send email on grievances@vardhaman.org or write an application and submit it to Cell convener.

Members:

1. Dr. V. S. Prabhakar, Associate Professor of ME - 9618431428
2. Prof. D Shobha Rani, Professor and Head of EEE
3. Prof. Y. Pandu Rangaiah, Professor and Head of ECE
4. Dr. B. Venkatesh, Professor of ME
5. Sri. H. Venkateswar Reddy, Associate Professor of CSE
6. Sri. A. Bhanu Prasad, Associate Professor of IT
7. Sri. Md. Asif, Associate Professor of EEE

Functions:

1. A grievance Redressal committee is formed to look in to the complaints from the aggrieved.
2. Suggestion/ Compliant Box are provided at Office of Principal for students and staff to lodge their complaints/ suggestions.
3. The report of grievance committee is forwarded to Principal for further action
4. The corrective measures are taken and recorded in the register.

12. WOMEN'S CELL

In view of the increasing number of girl students in the campus, Women Grievance Redressal Cell makes every effort to ensure that the girls feel at home. The cell resolves common problems of girl students and also takes up individual cases of sexual harassment, if any. Ragging in the hostels is totally disallowed, and any adventure in this respect is punishable.

Members:

1. Prof. D. Shobha Rani, Professor and Head of EEE - 9550080044
2. Dr. P. Sarah, Vice-principal
3. Ms. N. Ramya Tulasi, Assistant Professor of CSE
4. Ms. A Vijaya Lakshmi, Associate Professor of ECE
5. Ms. K Mani Kumari, Assistant Professor of ME

Functions:

1. The Cell will deal with the cases / complaints of sexual harassment and any other type of harassment of the female students, teaching and non-teaching women staff of the college.
2. The Cell shall process all the individual complaints and take suitable action thereon in the manner and mode as per the college norms.
3. At least 50% of the members of the Cell may be women.
4. At least one of the members of the Cell may be a person with a legal background.
5. The Cell will provide assistance to the Faculty/Colleges/College for taking preventive steps in the matter of gender discrimination and sexual harassment.
6. The Cell may form / review the guidelines / policy for redressal of the grievance as required from time to time, which may be in accordance with those issued by Supreme Court and Government Agencies

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Library has the advisory committee; the following are the committee members

1. Dr. B. Venkatesh : Professor of Mechanical Engineering.
2. Ms. V. Kavitha : Associate Professor of Humanities & Sciences
3. Ms. E. R. Aruna : Associate Professor of Information Technology
4. Ms. M. Srilatha Reddy : Librarian

Functions:

1. To prepare the list of books as per the requirement of various departments.
2. To suggest improvements to run the library smoothly, orderly and satisfactorily.
3. To suggest the fine structure for the late returning of books.
4. To suggest the punishments to be awarded for the students violating the guidelines of the library.

4.2.2 Provide details of the following:

- * Total area of the library (in Sq. Mts.)
- * Total seating capacity
- * Working hours (on working days, on holidays, before examination days, during examination days, during vacation)
- * Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

Total area of the library (in Sq. Mts.) : 2788

Total seating capacity : 500

Working hours:

On working days : 8 A.M to 8 P.M

On holidays : 10: 00 A.M to 02: 00 P.M

On and during examination days : 8 A.M to 8 P.M

During vacation : 10: 00 A.M to 02: 00 P.M

Layout of the library:

The library layout has Issue & Return counters, Magazine section, Back Volumes, Xerox corner, Magazine section, IT zone for accessing e-resources, Individual reading carrels, Area for relax reading, special cubicles for researchers.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Library Holdings	2012-2013		2011-2012		2010-2011		2010-2009	
	Number	Total Cost (in Rs.)	Number	Total Cost (in Rs.)	Number	Total Cost (in Rs.)	Number	Total Cost (in Rs.)
Text books	2457	12,83,183	2402	6,51,521	876	2,70,775	2531	9,68,582
Reference Books	377	1,05,455	469	1,44,602	103	28,004	778	2,89,038
Journals/ Periodicals	93	2,6,460	45	16,125	45	19,574	45	26,306
e-resources	-	-	145	4,10,141	7108	7,48,488	7363	14,71,607
Any other (Specify) Infrastructure, Binding Stationary	-	4,26,898	-	68,533	-	18,941	-	3,52,193

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- * OPAC
- * Electronic Resource Management package for e-journals
- * Federated searching tools to search articles in multiple databases
- * Library Website
- * In-house/remote access to e-publications
- * Library automation
- * Total number of computers for public access
- * Total number of printers for public access
- * Internet band width / speed 2mbps 10 mbps 1 gb (GB)
- * Institutional Repository
- * Content management system for e-learning
- * Participation in Resource sharing networks/consortia (like Inflibnet)

Through this catalogue one can search the Library database to know the status of the Library Book. One Can Search this OPAC by entering the Name of the Title/ Author/publisher/ Accession Number of the Book.

Federated searching tools to search articles in multiple databases:

Library provides federated search the need searching multiple content source with one query. Which allows a user to search multiple databases at once in real time.

Ex: OPAC, Web based search engines like Google.

Library Website: www.vardhaman.org

In-house/remote access to e-publications

Students and staff can access their e-resources from outside (With individual user I.D's and passwords)

Library automation

The Library uses Newgenlib Software package, which is an library automation Library Management information System that supports in-house operations of the Library. The Newgenlib software consists of modules on Acquisition, Cataloguing, Circulation, Serials, Article Indexing and OPAC. Retrospective conversion of bibliographic records has been in vogue and can now be accessed through the Newgenlib OPAC. The data base available in the library is being updated on day to day basis with details of recently acquired books, records of all the library patrons have also been created in the Newgenlib package. The editing & updating are in progress. To strength our circulation counters for accuracy and speeding up of operations Barcode Technology is in place.

Total number of computers for public access: 30

Total numbers of printers for public access: 2

Internet band with / speed: 40 Mbps

Institutional Repository

Institutional repository is an online locus for collecting preserving and disseminating in digital form.

Ex: NPTEL Video Lectures CD's.
SONET CD's.
Project reports CD's.

Participation in Resource sharing networks/consortia

Subscribed for Inflight-N List for participation in Resource Sharing networks .

4.2.5 Provide details on the following items:

- * Average number of walk-ins
- * Average number of books issued/returned
- * Ratio of library books to students enrolled
- * Average number of books added during last three years
- * Average number of login to opac (OPAC)
- * Average number of login to e-resources
- * Average number of e-resources downloaded/printed
- * Number of information literacy trainings organized
- * Details of "weeding out" of books and other materials

Average number of walk-ins: 500

Average number of books issued/returned: 300

Ratio of library books to students enrolled: 1:16

Average number of books added during last three years: 2500

Average number of login to OPAC : 50

Average number of login to e-resources: 100

Average number of e-resources downloaded/printed: 5 Per day

Number of information literacy trainings organized: 3 per Year

Details of “weeding out” of books and other materials

Continuous weeding is done to maintain collections so that they offer a balance between standard classics and the currently popular.

Purpose:

1. Utilize available space in the best and most economical way.
2. Maintain up to date collections and the libraries reputation for reliability.

4.2.6 Give details of the specialized services provided by the library

- * Manuscripts
- * Reference
- * Reprography
- * ILL (Inter Library Loan Service)
- * Information deployment and notification (Information Deployment and Notification)
- * Download
- * Printing
- * Reading list / Bibliography compilation
- * In-house / remote access to e-resources
- * User Orientation and awareness
- * Assistance in searching Databases
- * INFLIBNET / IUC facilities

Manuscripts: No

Reference: Separate reference section is provided for the users of the library where students and staff can refer books like Dictionaries, Encyclopedias, Almanacs, etc.

Reprography: Photocopy Facility is available in library for the users.

ILL (Inter Library Loan Service) : N-list inflibnet

Information deployment and notification

Notice board: Displays new arrivals, Seminars, Conferences conducted by other colleges, college calendar etc.,

Download

E-journals, Articles.

Printing

Library is having two printers for users.

Reading list/ Bibliography compilation

Library books are arranged subject wise, using Dewey decimal classification and shelf list cards helps the user in findings the required information easily.

In-house/remote access to e-resources

Students and faculty can access the library information with in and out side the campus also.

User orientation and awareness

User orientation sessions will be conducted for new users of the library.

Assistance in searching databases

Library staff assists the users in searching the databases like OPAC
Inflibnet / IUC
N-list (inflibnet)

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

The library staff consisting of professionals, semi-professionals and secretarial. The Professional and Semi- Professionals are well qualified and experienced. They provide information support services to the faculty, students and other academics in multiple activities relating to the various courses offered by the college.

The prominent services among them are:

Identifying procuring, processing of curriculum oriented and advanced textbooks from time to time for all the engineering courses offered by the college. Providing comprehensive reference sources for References. Augmenting the collection development through the academic year as per the guidelines of the university authorities. Provides current awareness service (CAS), Reference services to the faculty and students. Provides electronic information resources like CD's, DVD's, NPTEL videos, SONET videos

Subscribed reputed journals, magazines etc., are updating with the current knowledge. Subscribing to the online journals like IEEE, ELSEVIER, ASME, ASCE, ASTM, J-GATE, SPRINGER, MGH...etc., Provides Clipping service from the reading newspapers.

Extends services such as Reprography facilities and Document Delivery etc., Provides Nascent information through the application of Information communication technology (ICT) by OPAC, Automation.
Library is fully Automated and modernized for information dissemination process.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

VCE makes available easy access of e-recourses anywhere in the campus. So that such type students can easy access to library from outside. So far there are no admissions in this category.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

The Library provides feedback forms (direct approach method), to get the feedback from the users. The suggestions and complaints received as feedback are periodically reviewed and remedial measures are adopted for constructive feedback. This is a regular practice adopted in the library.

Further the user studies and user education are followed to get the library feedback, the feedback data is reviewed and analyzed by the library committee and steps which are appropriate are taken by the expert members for the improvement of the library services.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

- Number of computers with Configuration (provide actual number with exact configuration of each available system)
- Computer-student ratio
- Stand alone facility
- LAN facility
- Wifi facility
- Licensed software
- Number of nodes/ computers with Internet facility
- Any other

Particulars	Available	Specification
Number of computers	1100	Intel Dual core and i3 processors
No. of terminals of LAN/WAN	1100	D link Switches, Netgear Routers, Netgear Wireless adaptors
Computer-student ratio	1:3	Intel Dual core and i3 processors (Desktops)
Stand alone facility	1100 + 25	Intel Dual core and i3 processors, i5 processors (1100 Desktops + 25 Laptops)
Licensed software	23	Windows Server2003, 2008, XP-SII, Windows-7 Professional, VLSI, MAT Lab, Ansys PRO E, New Gen Lib For Library, K VAN Multimedia English Language, C, C++, Java, Oracle, Java, Auto Cad, and etc.....
Internet Facility	40 Mbps	SIFY
Wi-Fi Connectivity	Yes	Routers / Access Points

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Internet facility is available for all systems in the whole campus, for every 3 students one system is available and 55 systems are available for the faculty and also having 4 laptops for a department for portable purposes. The entire campus is optically networked between buildings and cable within the buildings for connectivity. In addition, Wi-Fi facility is provided in all the buildings. Dedicated bandwidth of 8 Mbps is taken from a single source. In addition each building /department of importance like examination center, remote center for online workshops, placement cell, and library have additional dedicated bandwidths of 1-3 Mbps.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Sequential up gradation plans are included every year in the plan funds for budget plan. The activities have been planned in such a way that, the IT infrastructure and associated facilities are always at par with the state-of-the-art technology. Up gradation of the LAN to 1 Gbps has been completed in 3 phas-

es spread across 2009 - 10, 2010 - 11 & 2011- 12. Up gradation of server was done in 2012 - 13

VCE maintains thrust on this vital area to ensure continuous and consistent availability in tune with the growing needs as well as changing technologies. The College places lot of importance on e-learning and major plans is in hand to upgrade the bandwidth, connectivity as well as the devices.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Expenditure Head	2009 - 2010		2010 - 2011		2011 - 2012		2012 - 2013	
	Budget	Spent	Budget	Spent	Budget	Spent	Budget	Spent
Academic Buildings								
Construction cost	237.4	232.78	180.01	174.77	406.10	398.14		
Maintenance expenses	1.80	1.63	2.09	1.92	20.18	19.22	20.0	17.56
Lab Equipment	55.4	50.83	56.2	53	242.25	234.12	130.75	123.43
Faculty/Staff development	1.20	1.11	6.17	5.66	0.88	0.81	4.65	6.24
Library								
Books & Infrastructure	11.49	10.64	11.15	10.32	8.51	7.74	13.73	12.57
Journals, E Resources	0.88	0.83	0.77	0.70	0.62	0.56	1.00	0.65
Services	81.47	78.33	124.68	121.05	141.67	137.54	250.0	237.38
Student Activities	2.57	2.47	2.41	2.27	8.20	7.74	20.50	54.74
Miscellaneous expenses								
Repayment of loans	135.03	131.09	84.24	81.79	145.63	142.78		
Interest/ Finance Charges		29.06	22.67	22.01	36.70	35.63	85.60	83.57
Any other								
Transport (Incl. Vehicle	53.52	50.97	99.21	95.40	104.85	99.86	50.00	15.23
Repairs) Vehicles	22.64	21.56	59.33	57.05	283.05	274.80	20.45	14.26
Total	969.4	956.72	1188.33	1140.2	1974.77	1921.4	1497.18	1653.5

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

The College provides digital library facility and all laboratories also having internet facility for all staff and students. All the College repositories including project reports, research papers, providing IEEE login, dissertations and Ph.D. thesis are available in digital format in the digital library. Moreover, R & D labs having the software tools required for teaching, learning and research purpose also available on the LAN.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

Internal external marks D forms assignments etc.

Details of computerized hardware and software available in the College as ICT resources:

- Hardware: There are 5 Centralized servers

- Software: Proxy Server, DHCP Server, DNS Server, Mail Server, Oracle DB, Antivirus Server, Web Applications, EZ School and OPAC.
- Total number of computers: 1100.
- LAN facilities and its configuration: Centralized LAN facility with 1Gbps bandwidth.
- Licensed software: All computers have original OS and 300 user license Microsoft windows 98, Microsoft Visual Studio6.0, Microsoft windows NT, TurboC++ suite, COBOL-85/DOS, oracle 8i, MAC FEE Server Antivirus, Adobe CS 5.5, MATLAB Coder, Fuzzy Logic Tool, Simncope Tool, SimElectronics, CADENCE VLSI, IBM Rational Functional Tester , PSCAD/EMTDC Software V 4.2 etc .
- Central computing facility and its use by staff and students: The staff and students can share the information through network. Also staff and student can access network resources.
- Faculty facilitation to prepare computer aided teaching/learning materials: All the classrooms have been provided with computer facilities and the computer system is connected to multimedia projectors and all computers have internet accessibility.
- Website: The website is updated whenever new information to be added regarding National Symposium, seminars, workshops, tender notification, recruitments and as and when required.
- Institutions plan to upgrade its computer systems and the provision made in the annual budget for update, deployment and maintenance of the computers in the institution: Systems are purchased with 3 years or 5 years warranty and upgraded the same once the warranty period expired if required
- Maintenance of computers and their accessories: These are maintained by administrator and technical team of the College.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes. VCE is under a process to become a Remote Research Center. VCE registered to IIT, Bombay under the scheme of National Mission on Education through ICT (MHRD, Govt. of India), with the support of the affiliating university JNTUH we are planning to become a Remote Center to conduct online workshops, Seminars, in association with IITB, Mumbai.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

VCE has been expanding and upgrading its assets and facilities rapidly since inception in 1999 in tune with its vision and strategic planning. Financial resources for maintenance and upkeep of following facilities in Lacs:

Expenditure Head	2009 - 2010		2010 - 2011		2011 - 2012		2012 - 2013	
	Budget	Spent	Budget	Spent	Budget	Spent	Budget	Spent
Academic Buildings								
Construction cost	237.4	232.78	180.01	174.77	406.10	398.14		
Maintenance expenses	1.80	1.63	2.09	1.92	20.18	19.22	20.0	17.56
Lab Equipment	55.4	50.83	56.2	53	242.25	234.12	130.75	123.43
Faculty/Staff development	1.20	1.11	6.17	5.66	0.88	0.81	4.65	6.24
Library								
Books & Infrastructure	11.49	10.64	11.15	10.32	8.51	7.74	13.73	12.57
Journals, E Resources	0.88	0.83	0.77	0.70	0.62	0.56	1.00	0.65
Services	81.47	78.33	124.68	121.05	141.67	137.54	250.0	237.38
Student Activities	2.57	2.47	2.41	2.27	8.20	7.74	20.50	54.74
Miscellaneous expenses								
Repayment of loans	135.03	131.09	84.24	81.79	145.63	142.78		
Interest/ Finance Charges		29.06	22.67	22.01	36.70	35.63	85.60	83.57
Any other								
Transport (Incl. Vehicle Repairs) Vehicles	53.52 22.64	50.97 21.56	99.21 59.33	95.40 57.05	104.85 283.05	99.86 274.80	50.00 20.45	15.23 14.26
Total	969.4	956.72	1188.33	1140.25	1974.77	1921.43	1497.18	1653.53

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

VCE maintenance department is well upkeep of facilities and equipment including the safety and security. All the department maintenance coordinators will take care of up keeping the maintenance part.

4.4.3 How and with what frequency does the College take up calibration and other precision measures for the equipment/instruments?

All the departments will carry out precision measures for the laboratory equipment of their concerned and finally College take up calibration.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

All equipments which are sensitive to voltage fluctuations are backed up with UPS and voltage stabilizers. As a philosophy wherever possible desktops are replaced with laptops and other mobile devices so that optimum power is utilized.

Drinking Water:

Source of potable water in campus is by means of two bore wells

Particulars	Capacity	No's
20 HP Bore Well	Main Tank 1, 25,000 liters	1
15 HP Bore Well	Sub Tanks 25,000 liters	2

RO treated drinking water is distributed to Every Classroom, Laboratory and all instruction, administrative and amenities halls.

Particulars of water	Capacity	No's
Hardness After Treatment 25	5000 liters per day	2
Drinking Water Coolers	50 liters	14

Security:

Institution Security is looked after by a private security agency in three shifts round the clock. Security Guards are on duty at the College main gate, parking areas, and hostels. Additional security guards are employed on special occasions like sports & annual day or any VIP visits and other functions. The entire campus and hostels are protected by the compound wall with two main exits. In case of untoward incidence the local police outpost station is located adjacent to our campus.

Electricity:

College has a dedicated Express 11 KV Feeder from nearby Local Sub Station.

Particulars	Capacity	No's
Transformer	315 KVA	1

Power backup:

The power room is equipped with generators for standby supply. They are switched on in immediately in case of power failure.

Particulars	Capacity	No's
Generators	200 KVA	1
	125 KVA	1
	62.5 KVA	1
	40 KVA	1
UPS	10 KVA	11
	5 KVA	2
	7.5 KVA	6
	2 KVA	30
	1 KVA	15
	600 VA	30

Telecommunications:

Particulars	Capacity
Number of BSNL Land Lines	8
Number of EPABX Lines	4
EPABX	1
Number of Intercoms Connected	99
Number of Fax Machines	2

CRITERION V

STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

- 5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?**

It contains the vision, mission, details of courses offered, eligibility, and facilities available which help the students to choose the desired course in this institution.

The institution publishes its updated prospectus annually. The prospectus consists of all the necessary information the students need to know. It contains the vision, mission, details of courses offered, eligibility, and facilities available which help the students to choose the desired course in this institution. The complete college profile is available in the prospectus. Every year the college publishes its academic calendar and given to students. The academic calendar consists of admission schedule, the details of the college working days, the fee details and the rules and regulations which the students need to follow within the college campus. This also contains the list of the facilities being provided to the students, faculty details department wise. The Handbook is revised every year and distributed to every student, faculty and staff at the beginning of the academic year. The same information, which is published in the college prospectus/Academic calendar, is also updated on the college website www.vardhaman.org.

- 5.1.2 Specify the type, number and amount of institutional scholarships / free-ships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

The list of students who had received the scholarships for the last four years:

Details		2012-2013	2011-2012	2010-2011	2009-2010
Category	SC	269	221	207	194
	ST	98	78	69	59
	BC	759	653	580	529
	EBC	368	306	265	139
	BC-E	84	71	-	48
	MM	-	-	59	-
	DWD	6	4	4	2
Scholarship Assistance		1584	1333	1184	971
Amount		Rs. 58,979,200.00	Rs. 42,507,900.00	Rs. 37,256,050.00	Rs. 33,592,700.00

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

More than 60% of the students of the College get benefited from these scholarships sponsored by the government and national agencies.

5.1.4 What are the specific support services/facilities available for

- * Students from SC/ST, OBC and economically weaker sections
- * Students with physical disabilities
- * Overseas students
- * Students to participate in various competitions/National and International
- * (students achievements)
- * Medical assistance to students: health centre, health insurance etc.
- * Organizing coaching classes for competitive exams
- * Skill development (spoken English, computer literacy, etc.,)
- * Support for “slow learners” (remedial class)
- * Exposures of students to other institution of higher learning/ corporate/business house etc.
- * Publication of student magazines

VCE provides the specific support/facilities at various aspects for the following:

- * **Students from SC/ST, OBC and economically weaker sections.**
At the time of admission itself the Students from SC/ST, OBC and economically weaker students are identified based on their authenticated disclosures and the college is maintaining the same record. Besides the Central Govt., the State Govt., and the other N.G.O. sponsored scholarships they are made aware of the different types of schemes that are available to students from the Social Welfare Department & Government. Apart from this the College has poor student fund account in the bank. Some funds from various sponsors are transferred, the amount is utilized for the economically poor students those who are really in need. College management is also very considerate to such students Full fee Scholarships / freeships, stipends, free hostel facilities, free books etc., are made available to students from SC/ST,OBC and economically weaker sections.
- * **Students with physical disabilities:**
There is 3% reservation for physically handicapped candidates in admission, in each category viz. S.C., S.T., and O.B.C. Their requirements and needs are given special care and attention. The institution is committed to accommodate them on the ground floor for their classes. They are provided front-row seating arrangement, comfortable furniture and attendant facility. No such cases in VCE so far.
- * **Overseas students:**
As per the AICTE guidelines the admissions are given to Overseas students. The institution gives its support to overseas aspirants. The institution does not have any boundaries to extends its services to any kind of students.

- * **Students to participate in various competitions/National and International/Organizing coaching classes for competitive exams:**

For the national/International Competitive exams like GATE, GRE, IES, UPSC coaching is given to needy students. Apart from this for career progression Soft skills, Resume preparation, Group Discussion, Interview questions skills, short term computer courses like CISCO certification, MSCE certification placement training programs are conducted during the summer.

- * **Medical assistance to students: health centre, health insurance etc.:**

Healthcare facilities are available round the clock at the VCE Health Centre. It has 04 beds, 02 consultation rooms and a pharmacy. One full time doctor is employed to render 24 hours service, with support from staff nurse. All treatment, consultation & medicines including lab investigations are done free of cost for all students, staff & staff dependents.

- * **Skill development (Spoken English, Computer literacy, etc.)**

The Placement and Training Centre of the Institution organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Centre caters to the needs in career guidance of students besides organizing training and placement activities regularly. The Centre also organizes Seminars on Entrepreneurial activities.

Soft skills, Guest Lecturers from the Industry, Personality Development Programmes are conducted by the college regularly which will drive the students towards career enhancement. For rural background and needy students some Listening and speaking skills lab sessions are conducted. For computer literacy PC software Lab is established as a part of the curriculum which helps the students learn the basics of the computer language.

- * **Support for “slow learners”.**

From each class, slow learners are identified by the class teacher. For a group of 15 students one mentor is allotted by the HOD. The mentor will counsel their students personally. For those students remedial classes are conducted in tough subjects after the normal working hours.

- * **Publication of student magazines.**

The College magazine name “Impressions” is published half yearly. Impressions provides an opportunity for the students to bring out their creative skills. The Articles are contributed by the students as well as faculty. Those articles are published in the magazine under the supervision of the College editorial board. Through the magazine the activities of the college are made known to alumnae and others.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

We are focused towards providing students with the best and nothing less to help our students build strong careers. VCE, being a fine blend of educationists and entrepreneurs has superior relations with corporate houses and other prestigious institutions.

Entrepreneurship development Cell of the college is committed to the cause of encouraging entrepreneurship among students who are very much interested in taking up challenging entrepreneurship as their career. The centre invites various renowned entrepreneurs to share their experience viz., initial challenges in the career and methods to overcome, various avenues in the industry where entrepreneurship is very much possible without much problems.

Lectures and awareness programmes are regularly conducted to enlighten the students about the joys and problems of entrepreneurship. Guest Lectures, Business Plan workshops, Case study workshops, are conducted throughout the year to involve the students in the activities that are essential.

Even Banks are invited to conduct awareness programmes on possible ways of funding for budding entrepreneurs. District Industries Centre is regularly supporting this cell by providing literature on various viable projects that can be taken up by the budding entrepreneurs.

Entrepreneurship Committee:

The following is the constitution of the committee of Entrepreneurship cell:

S No	Name	Position	Department
1	MR K. Srinivasan	Coordinator	Placement and Training Centre
2	Dr P. Govardhan	Member	Department of CSE
3	Mr. H. Venkateshwar Reddy	Member	Department of CSE
4	Mr. G. Venkatesh	Member	Department of IT
5	Prof. Y. Pandurangaiah	Member	Department of ECE
6	Mr. Md Asif	Member	Department of EEE
7	Prof S. Deva Prasad	Member	Department of ME
8	Mr. N. Srinivasa Reddy	Member	Department of AE
9	Dr. Perumalla Janaki Ramulu	Member	Department of CE
10	Prof. N. Venkat Rao	Member	Department of MBA

Objectives:

The objectives of the “Entrepreneurship Development Cell” are as follows:

- To create awareness on entrepreneurship among the students.
- To motivate and develop entrepreneurship abilities among the students.
- To conduct various entrepreneurship programmes like Training programmes, Seminars, awareness camps to promote entrepreneurship among the students.
- To create awareness regarding the sources of help and support available to potential entrepreneurs.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- * additional academic support, flexibility in examinations
- * special dietary requirements, sports uniform and materials
- * any other

The College has the following Technical Associations which conduct various co-curricular activities:

- * CETA - Computer Engineers Technical Association (CSE)

- * ETA - Electrical Technical Association (EEE)
- * VIVECA - Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- * TAIT - Technical Association of Information Technology (IT)
- * MACHINE - Mechanical Association for Creating Highly Innovative Engineers

National Level Student Technical Paper Contest relating all branches, “TECHNOLITES”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students’ participation.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

Effective career guidance services including counseling for higher studies:

For effective career guidance, various seminars, workshops and symposiums are being organized all through the year. Students are given necessary information and direction on various career options available for them according to their stream.

Counseling sessions are conducted on regular basis to enlighten the students about the avenues of higher education that are open for them. Training is imparted to those students who appear for GATE and other competitive examinations.

The Placement and Training Centre of the Institution organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Centre caters to the needs in career guidance of students besides organizing training and placement activities regularly. The Centre also organizes Seminars on Entrepreneurial activities.

Career guidance cell:

S No	Name	Position	Department
1	Dr P. Govardhan	coordinator	Department of CSE
2	Mr. D. Manoj Reddy	Member	PAT Officer
4	Mr. H. Venkateshwar Reddy	Member	Department of CSE
5	Mr. G. Venkatesh	Member	Department of IT
6	Prof. Y. Pandurangaiah	Member	Department of ECE
7	Mr. Md Asif	Member	Department of EEE
8	Prof VSV Prabhakar	Member	Department of ME
9	Mr. N. Srinivasa Reddy	Member	Department of AE

Objectives of the Cell

1. To provide information about various careers available in this competitive world.
2. To organize career development seminars and workshops.
3. To invite companies to interact with students.
4. To organize awareness programmes on significant areas.
5. To activate resources for needy students to apply for jobs.
6. To organize guest lectures on career development by expertise of the field.
7. To train the students in soft skills and personality development which are essential for employment and success career.

S. No	Department		Roll No	Student Name	Rank
1	EEE	GATE	08881A0222	G. Naveen Kumar	2866
			08881A0221	M Naresh Kumar	1678
			08881A0244	L SRAVYA	4894
			08881A0255	C. Varsha Rani	9840
		GRE	09881A0222	K. Sai Deepak	1100
			08881A0204	Arun Vardhan M	1140
			08881A0247	Srinivasa Satish T	1020
2	MECH	UNIVERSITY RANK	07881A0307	A N S Aparna	GOLDMEDAL
3	ECE	Gate - 2012	EC1174604	M. Arjun	350
		IELTS - 2012	J1249598	p Rao	6.0
		Gate-2012	EC1170270	Anna Sai Kiran	404
4	AERO	GATE	09881A2114	Shasidhar	65
			09881A2119	Venkatesh Naik	528
			09881A2107	V.kalyan	1032
		Indian Air Force Academy	09881A2101	Balaram Sukla	Navy
5	CSE	GRE	08881A0576	P.Kruthi Reddy	297/340
			08881A0561	Abhishek Agarwal	289/340
			08881A05A4	V.Sindhuja	292/340
			08881A0519	M.Jayaveena	298/340
		TOFEL	08881A0576	P.Kruthi Reddy	95/120
			08881A0561	Abhishek Agarwal	90/120
			08881A05A4	V.Sindhuja	91/120
			08881A0519	M.Jayaveena	92/120

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Academic Counseling:

- * Room No. 1303 Faculty rooms are used for counseling.
- * Student counseling is conducted once or twice in a semester as required.

Career Counseling:

Effective career guidance services including counseling for higher studies: For effective career guidance, various seminars, workshops and symposiums are being organized all through the year. Students are given necessary information and direction on various career options available for them according to their stream.

Counseling sessions are conducted on regular basis to enlighten the students about the avenues of higher education that are open for them. Training is imparted to those students who appear for GATE and other competitive examinations.

The Placement and Training Centre of the Institution organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Centre caters to the needs in career guidance of students besides organizing training and placement activities regularly. The Centre also organizes Seminars on Entrepreneurial activities.

Objectives of the Cell:

1. To provide with information about various careers available in this competitive world.
2. To organize career development seminars and workshops.
3. To invite companies to interact with students.
4. To organize awareness programmes on significant areas.
5. To activate resources for needy students to apply for jobs.
8. To organize guest lectures on career development by expertise of the field.
9. To train the students in soft skills and personality development which are essential for employment and success career.

Availability of counseling facility for psycho-social: (1)

Specify the counselor(s), their qualifications and availability
Specify number of cases handled on per month basis

Psychological and psychiatric counseling to the students are arranged through guest lectures and interactive sessions by professional councilors. These kinds of activities are arranged for every semester of academic programme.

Name of the Counselor:

1. Dr. Vemula Srikanth, MD (Gen Med.) JIPMER, DM (AIIMS)
General Physician & Neuro Surgeon
2. Dr. K. V. S. G. Murali Krishna, Director
Director Foreign Universities and Alumni Relations
JNTU, Kakinada.

Apart from the above faculty of departments are allotted as counselors for II, III and IV year students to regularly monitor academic and non academic issues of the students.

I year faculty are allotted exclusively for the I year students as counselor. Resident wardens are available in hostels to deal with psychological and emotional problems of hostel inmates.

Arrangement for emergency medical care: (2)

Number of Medical practitioners	:	1
Number of nursing staff	:	1
Medical facility within the College/College	:	Dispensary

A Dispensary with modern equipment and facilities to cater to the general medical needs of the students, staff and faculty is available on the campus.

Medical facility nearby:

In case of necessity medical facilities are available at Trident Multi Specialty Hospital, Shamshabad and Indira Super Specialty Hospital, Shamshabad. At a distance of 20 km advanced medical facilities are available at Osmania Government Medical College, Hyderabad.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Department of Placement and Training Centre is a dedicated, full-fledged and fully equipped division PAT Officer. It is committed to oversee training and placement activities for the larger benefit of the students. The College has provided complete infrastructure for effective functioning of the department. Training activities are organized throughout the year in an effort towards preparing the students to acquire potential for the campus selection processes.

The PAT Centre invites various industries of repute for campus recruitment. Internship is provided as part of industry academia interaction by the corporate with whom the institution has some bonding.

It has got a tie up with Infosys Campus Connect Programme also. The college has been accredited by TATA Consultancy Services.

Following are the soft skills & Aptitude Trainers of the College.

S.No	Name	Position	Department
1	Prof L V Narasimha Prasad	Training and Placement Officer	Placement and Training Centre
2	Prof Y Pandurangaiah	Associate Training and Placement Officer	Placement and Training Centre
3	Mr. D. Manoj Reddy	Assistant Training and Placement Officer	Placement and Training Centre
4	Mr. K. Srinivasan	Associate Professor	Placement and Training Centre
5	Mr. M. Samba Raj	Associate Professor	Placement and Training Centre
6	Mr. E. K. R. Patro	Assistant Professor	Placement and Training Centre

Seminars / workshops / guest lectures / training programmes organized as part of training and placement activities (Year-wise):

Academic Year: 2011 - 2012					
S No	Title of the Programme	Resource Persons	Date of the Event	Target Audience	No. of students attended
1	DANUSH	Mr. S. Srikanth (TCS)	22 February, 2012	350	335
2	DANUSH	Mr. A. Sreenivas Reddy (Soft Skills)	12 February, 2012	230	226
3	IGNITE	Mr. S. N. C. Srinivasan (Soft Skills)	5 January, 2012	280	270

4	SYNTEL TRAINING	Mr. Venkatsankarayan (Syntel)	23 December, 2011	160	158
5	TCS HR Training	Ms. Swetha (TCS)	14 December, 2011	140	140
7	HR TRAINING	Mr.N.G.Raju (TECH . Mahindra)	16 November, 2011	85	84
Academic Year: 2010 – 2011					
1	HR TRAINING	Mr. Swaminath (Convergeys)		180	178
2	VEDIC MATHS	Mr. A. Sambha Raj (Reasoning & Aptitude)		160	152
4	TECH SYMPOSIUM	Mr. Jagannadham (VLSI DESIGNS)		120	118
5	WAVE TECH	Mr. Devaraj (WMC)		120	120
6	LIVE WIRE	Mr. Veera Reddy (PEED)		120	115
7	INFOSYS HR Training	Mr. Dev Chowdary (HR Training)		253	250
Academic Year: 2009 – 2010					
2	HR TRAINING , SYNTEL	Mr. Balaji (SYNTEL)	15 January, 2010	138	125
3	AAKARSHAN	Mr. Sambha Siva Rao (Career Development)	28 December, 2009	120	114
4	AARUSHI	Mr.Ramana reddy (C++)	15 December, 2009	120	110
5	UDBHAV	Mr. Siva Reddy (JAVA)	10 November, 2009	120	112

IBM Center of Excellence: The College has been recognized as the Center of Excellence by IBM. The College signed an MOU with IBM and established IBM Center of Excellence on 27-01-2012 on the campus to facilitate students and faculty to acquire skills in emerging technologies of IBM besides facilitating students for certification.

Infosys – Campus Connect Program: Infosys launched an academia-industry unique program with the aim of evolving a model with Engineering Colleges in India to build a vibrant talent pool. Three faculty members of the College have been trained through Campus Connect Program at Infosys Campus, Hyderabad on Technical Skills and on Soft Skills. The trained faculty have started this program on technical skills for third and final year students of CSE, IT, ECE & MCA. Till now 240 students of four batches have been trained through this program (30 Hours of Class room teaching for 9 core subjects for each batch). Training on soft skills was conducted for II and III B. Tech students of all branches. The Campus Connect Certificate is helpful for the students in placement.

Placement of Students:

Academic Year : 2012 – 2013 (ongoing)		
S. No	Name of the Company	Number of students Placed
1	TATA Consultancy Services, Hyderabad	51
2	Innsoul Technologies PVT. LTD , Hyderabad	5
3	Tech Mahindra	40
	Total	96

Academic Year: 2011 – 2012		
S. No	Name of the Company	Number of students Placed
1	TATA Consultancy Services, Hyderabad	140
2	Tech Mahindra, Bangalore	21
3	Oracle Financial Corporation, Bangalore	18
4	Surya, Hyderabad	2
5	Inrhythm Solutions, Hyderabad	1
6	Ocean ship Maritime Marchant Navy, Pune	3
7	Shoppers Stop, Hyderabad	13
8	ADP Pvt. Ltd., Hyderabad	1
9	Robert Bosch, Bangalore	8
10	Victory Metal Finishers	10
11	Tech Synergy,	15
12	Power Mech Projects Limited, Hyderabad	10
13	Keane, Chennai	2
14	Cummins, Hyderabad	8
TOTAL		252
Academic Year: 2010 - 2011		
1	TATA Consultancy Services, Hyderabad	96
2	Mahindra Satyam/Tech Mahindra, Bangalore	74
3	Persistent Systems Limited, Hyderabad	3
4	Syntel Inc., Pune	31
5	L & T Infotech, Mumbai	7
6	Robert Bosch, Bangalore	14
7	Virtusa India Pvt Ltd, Hyderabad	12
8	Inizer Technologies, Noida	31
9	Vijaya Engg. Equipment (VOLVO), Vijayawada	7
10	Power Mech Projects Limited, Vijayawada	14
11	Apps Associates Pvt. Ltd.	1
12	Redpine Signals, Bangalore	2
13	Visiontek, Pvt. Ltd., Hyderabad	1
14	KARVY Financial Services, Hyderabad	9
15	Shoppers Stop, Hyderabad	13
16	Automotive Robotics Pvt. Ltd.,	6
17	TATA bss, Hyderabad	24
18	Axis IT&T, Bangalore	4
19	MphasiS, Bangalore	9
20	Asia Motor Works Ltd., Mumbai	1
21	MOLD-TEK Technologies Limited, Hyderabad	5
22	Infotech Enterprises, Hyderabad	8
TOTAL		372
Academic Year: 2009 - 2010		
1	Tech Mahindra, Bangalore	30
2	Mahindra Satyam, Bangalore	43
3	Computer Sciences Corporation, Hyderabad	55
4	TATA Consultancy Services, Hyderabad	14
5	Convergys Pvt. Ltd., Hyderabad	2
6	Maveric Systems Limited, Chennai	3
7	ADP Pvt. Ltd., Hyderabad.	1
TOTAL		148

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Formation of a Cell in accordance with the provisions of Right to Information Act, 2005. All the grievances addressed by the stakeholders are examined by the Grievance Redressal Committee and appropriate solutions are suggested.

Grievance Appeal Committee:

Members:

1. Dr J V R Ravindra, Professor of ECE
2. Mr. A Bhanu Prasad, Associate Professor of IT
3. Mr. H Venkateswar Reddy, Associate Professor of CSE
4. Dr. P. Sarah, Professor of Physics

Functions:

1. To receive the Grievances from faculty, staff and students / parents.
2. To find the facts of the grievances
3. To suggest remedial and preventive measures.
4. To review the suggestions / complaints raised by the students during periodical counseling
5. To review the outgoing students feedback

Grievance Redressal Committee works for students, interacts and help them to sort out their grievances. Grievances boxes were set up in all the academic blocks. This committee work for both registered as well as nonregistered grievances of the students.

The students drop their grievances in the box. For each class one class teacher is allotted. The students can share their grievances with the class teachers and the Principal also. The necessary action is taken after issues are discussed by the committee.

Grievances addressed:

Based on grievances received from stake holders RO purified water system is arranged in all the blocks. As the grievance received from the students, the number of Titles and the volumes increased in the library for the students. So far no serious incidents have occurred. Matters have been redressed at the department level.

5.1.11 what are the institutional provisions for resolving issues pertaining to sexual harassment?

No such cases have been reported till date. A separate Women Empowerment Cell which handles specifically sexual harassment of women both students and staff.

Members:

1. Prof D Shobha Rani, Professor and Head of EEE – Convener
2. Dr P Sarah, Professor and Head of Freshman
3. Smt. A Vijaya Lakshmi, Associate Professor of ECE
4. Ms. K Mani Kumari, Assistant Professor of ME

They can also Co-opt two lady student members one from B. Tech students and one from MCA students.

Functions:

1. To receive complaints, if any, from the lady staff and lady students who have been subject to sexual harassment.
2. To keep all records intact and in proper order of the complaints received.
3. To enquire into such complaints and establish the facts.

To keep an elaborate process document of each such case describing the methods adopted and the settlement reached in solving the problem.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The College has set up a Discipline Committee and anti-ragging committee, Both committees works in the same direction. The anti ragging committee is very cautious regarding this menace. The policy of this committee is awareness. It comprises of the Head of the Institution and all the Head of Departments. Faculty members are assigned to monitor the students and create friendly environment among the seniors and Fresher's. Till date, there is no ragging of any kind has been reported in the College and the act 26 of 1997 of Govt. of A.P/ AICTE Rules 2009 are in force. Students and parents give affidavits at the time of joining about awareness and anti-ragging measures and an undertaking not to indulge in them.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The following welfare schemes are made available to the students:

Scholarships & Free Ships:

Details about the scholarships, various free-ships are displayed on the notice board of the institution. The scholarship co-ordinator follow up all the scholarships of the students to be the beneficiaries of the various welfare schemes. The College provides them free ship on the basis of their performance in the academics, sports or extra-curricular activities. Similarly scholarships received from various central, state and other agencies are disbursed without any delay to the students.

Details		2012-2013	2011-2012	2010-2011	2009-2010
Category	SC	269	221	207	194
	ST	98	78	69	59
	BC	759	653	580	529
	EBC	368	306	265	139
	BC-E(MM)	84	71	59	48
	DWD	6	4	4	2
Scholarship Assistance		1584	1333	1184	971
Amount		Rs. 58,979,200.00	Rs. 42,507,900.00	Rs. 37,256,050.00	Rs. 33,592,700.00

- **Banking Services:**

In collaboration with the Andra Bank, the institution assists all the students in opening an account with a zero deposit. It empowers students to transact for scholarships which is 8kms from the campus. HDFC bank ATM available in the College premises.

- **Counseling & Placement Service:**

For effective career guidance, various seminars, workshops and symposiums are being organized all through the year. Students are given necessary information and direction on various career options available for them according to their stream.

Counseling sessions are conducted on regular basis to enlighten the students about the avenues of higher education that are open for them. Training is imparted to those students who appear for GATE and other competitive examinations.

The Placement and Training Centre of the Institution organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Centre caters to the needs in career guidance of students besides organizing training and placement activities regularly. The Centre also organizes Seminars on Entrepreneurial activities.

- **Health Services:**

Healthcare facilities are available round the clock at the VCE Health Centre. It has 04 beds, 02 consultation rooms and pharmacy. One full time doctor and a part time doctor are employed to render 24 hours service, with support from staff nurse. All treatment, consultation & medicines including lab investigations are done free of cost for all students, staff & staff dependents.

- **Subsidized Canteen:**

Extra care in providing hygienic and nutritive food at subsidized rates in its cafeteria. So, with doubled stamina, students continue their academic discussions, career plans, spicy chats in the excellent insides of the cafeteria setting themselves free from the inevitable spells of fatigue.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

It has the distinction of having among its alumni personalities in high positions, academicians, successful researchers, industrialists, entrepreneurs and leaders of world renown with their contributions to the development and economic prosperity of our country. In the course of continued march towards excellence the VCE was credited with the status of an Autonomous College by JNTU, Hyderabad in 2011.

Today the College is ranked among top 10 Private Engineering Colleges in and around Hyderabad. Recently no less than 40+ companies visited the college campus for recruitment and nearly the entire batch of students found favor with the companies.

All the department have a large alumni base from which to get information. These alumni fulfill roles in the industry from entry-level engineers to Vice-Presidents, Presidents, CEO's and Engineering Directors, and faculty. Alumni of the program have many opportunities to interact directly with the HOD or individual faculty members by attending Department events throughout the year.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student Progression		Percentage
2012-2013		
UG to PG		32
PG to M.Phil.		Nil
PG to Ph.D.		01
EMPLOYED	Campus Selection	71
	Other than Campus Recruitment	11
2011-2012		
UG to PG		23
PG to M.Phil.		Nil
PG to Ph.D.		03
EMPLOYED	Campus Selection	86
	Other than Campus Recruitment	11
2010-2011		
UG to PG		20
PG to M.Phil.		Nil
PG to Ph.D.		02
EMPLOYED	Campus Selection	61
	Other than Campus Recruitment	9
2009-2010		
UG to PG		18
PG to M.Phil.		Nil
PG to Ph.D.		0.5
EMPLOYED	Campus Selection	45
	Other than Campus Recruitment	6

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

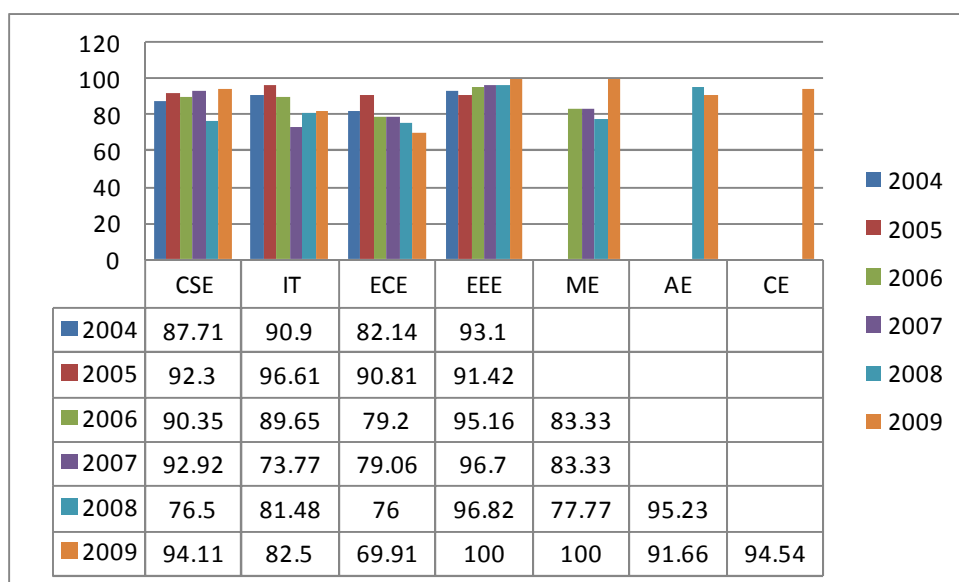
2006 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	122	114	103	33	43	26	90.35
2	IT	60	58	52	22	24	06	89.65
3	ECE	125	125	99	76	14	9	79.20
4	EEE	62	62	59	12	31	16	95.16
5	ME	48	48	40	28	09	03	83.33
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--

2007 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	121	113	105	36	51	18	92.92
2	IT	59	59	45	14	26	05	73.77
3	ECE	129	129	102	32	49	21	79.06
4	EEE	62	62	60	14	32	14	96.7
5	ME	54	54	50	28	09	03	83.33
6	AE	--	--	--	--	--	--	--
7	CE	--	--	--	--	--	--	--
2008 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	120	108	83	35	43	5	76.5
2	IT	60	54	44	10	30	04	81.48
3	ECE	136	125	95	32	58	5	76.0
4	EEE	63	63	61	37	24	0	96.82
5	ME	45	45	35	21	12	2	77.77
6	AE	21	21	20	9	11	0	95.23
7	CE	-	-	-	-	-	-	-
2009 ADMITTED BATCH								
S No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	Second Class	%
1	CSE	104	102	96	47	36	13	94.11
2	IT	40	41	40	33	07	--	82.50
3	ECE	113	113	79	62	17	--	69.91
4	EEE	71	78	78	45	26	07	100
5	ME	88	88	88	71	17	--	100
6	AE	49	48	44	41	03	--	91.66
7	CE	56	55	52	31	21	--	94.54

PG (M. TECH, MBA & MCA)

2008 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	60	60	56	22	34	93.33
2	MCA	59	58	57	54	3	98.27
M.TECH							
3	DECS	--	--	--	--	--	--
4	WMC	16	16	14	5	9	87.5
5	CSE	18	18	15	07	07	83.33
6	SE	--	--	--	--	--	--
7	PEED	18	17	16	11	05	94.11
2009 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	49	48	41	18	23	87.23
2	MCA	40	37	35	25	10	94.59
M.TECH							
3	DECS	16	15	14	5	9	93.3
4	WMC	13	13	12	7	5	92.36

5	CSE	16	16	14	09	05	87.50
6	SE	17	16	16	12	04	100
7	PEED	18	18	18	14	04	100
2010 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	54	53	50	15	35	94.33
2	MCA	38	38	37	24	13	97.37
M.TECH							
3	DECS	19	19	14	7	7	73.68
4	WMC	12	11	6	1	4	54.54
5	CSE	10	10	8	5	3	80.00
6	SE	8	8	3	2	1	37.00
7	PEED	14	14	14	8	6	100
2011 ADMITTED BATCH							
S. No.	Branch	No. of Students Admitted	No. of Students Taken Final Exam	No. of Students Passed out	Distinction	First Class	%
1	MBA	53	49	44	33	10	89.79
M.TECH							
2	DECS	34	27	27	20	07	100
3	WMC	15	06	06	05	01	100
4	CSE	35	32	32	27	05	100
5	SE	15	15	15	13	02	100
6	PEED	15	15	12	10	02	80.00



JNT University Hyderabad (JNTUH) Rank Holders:

Vardhaman College of Engineering students have been securing University ranks regularly right from the 1st Batch. The ranks in a row reflect the dedicated efforts of the faculty and core competencies of the Management. The following Vardhaman College of Engineering students secured University Ranks in the examinations conducted by Jawaharlal Nehru Technological University, Hyderabad.

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Training and Placement gives a silver lining to the course and is a curtain raiser for student's career making. We are focused towards providing students with the best and nothing less to help our students build strong careers.

VCE, being a fine blend of educationists and entrepreneurs has superior relations with corporate houses and other prestigious institutions. Our placement team works round the year to ensure successful and respectable placements with esteemed organizations.

VCE has been successful in placing 90% of its 2010 pass out batch with the best of the organizations, 95% of its 2011 and 2012 pass out batches and is committed towards attaining 100% placements in the coming days.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The institution is committed to bring down the failure and dropout rates. The socio-economic, cultural and psychological issues contribute to the failure and drop out factor. To deal with the socio-cultural problems, the career guidance & counseling cell and grievance cell address the problems of the students and sometimes of the parents with regards to their wards. A number of teachers in the College volunteer to extend financial support to the needy students. Remedial classes are conducting for the weaker students.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

Every Year Technolytes program is conducting for the students which include all types of sports, cultural and other extra curricular activities. For the academic year 2012-2013 some of the sports events calendar is scheduled as given below.

PROGRAM CALENDAR

ORTUS is organized every year and various games/sports and cultural events are conducted for Boys and Girls in the month of March. Details of the participation and the schedule are given below.

SPORTS/GAMES SCHEDULE:

S. NO	NAME OF THE EVENT	SCHEDULE	DETAILS OF THE PARTICIPATION																						
1	THROW BALL FOR GIRLS	25-02-2013 TO 27-02-2013	<table><tr><td rowspan="2">I</td><td>ECE</td><td rowspan="2">25-02-2013 03.30PM</td><td rowspan="2">SECOND ROUND 26-02-2013 04.00PM</td><td rowspan="10">FINALS 27-02-2013 04.00PM</td></tr><tr><td>IT</td></tr><tr><td rowspan="2">II</td><td>MECH</td><td rowspan="2">25-02-2013 04.00PM</td><td rowspan="2"></td></tr><tr><td>AERO</td></tr><tr><td rowspan="2">III</td><td>CSE</td><td rowspan="2">25-02-2013 04.30PM</td><td rowspan="2">SECOND ROUND 26-02-2013 04.30PM</td></tr><tr><td>EEE</td></tr><tr><td rowspan="2">IV</td><td>CIVIL</td><td rowspan="2">26-02-2013 03.30PM</td><td rowspan="2"></td></tr><tr><td>MBA</td></tr></table>	I	ECE	25-02-2013 03.30PM	SECOND ROUND 26-02-2013 04.00PM	FINALS 27-02-2013 04.00PM	IT	II	MECH	25-02-2013 04.00PM		AERO	III	CSE	25-02-2013 04.30PM	SECOND ROUND 26-02-2013 04.30PM	EEE	IV	CIVIL	26-02-2013 03.30PM		MBA	
I	ECE	25-02-2013 03.30PM	SECOND ROUND 26-02-2013 04.00PM		FINALS 27-02-2013 04.00PM																				
	IT																								
II	MECH	25-02-2013 04.00PM																							
	AERO																								
III	CSE	25-02-2013 04.30PM	SECOND ROUND 26-02-2013 04.30PM																						
	EEE																								
IV	CIVIL	26-02-2013 03.30PM																							
	MBA																								
2	VOLLEY BALL FOR BOYS	25-02-2013 TO 27-02-2013	<table><tr><td rowspan="2">I</td><td>CIVIL</td><td rowspan="2">25-02-2013 03.30PM</td><td rowspan="2">SECOND ROUND 26-02-2013 04.00PM</td><td rowspan="10">FINALS 27-02-2013 03.30PM</td></tr><tr><td>MBA</td></tr><tr><td rowspan="2">II</td><td>MECH</td><td rowspan="2">25-02-2013 04.00PM</td><td rowspan="2"></td></tr><tr><td>CSE</td></tr><tr><td rowspan="2">III</td><td>AERO</td><td rowspan="2">25-02-2013 04.30PM</td><td rowspan="2">SECOND ROUND 26-02-2013 04.30PM</td></tr><tr><td>EEE</td></tr><tr><td rowspan="2">IV</td><td>IT</td><td rowspan="2">26-02-2013 03.30PM</td><td rowspan="2"></td></tr><tr><td>ECE</td></tr></table>	I		CIVIL	25-02-2013 03.30PM		SECOND ROUND 26-02-2013 04.00PM	FINALS 27-02-2013 03.30PM	MBA	II	MECH	25-02-2013 04.00PM		CSE	III	AERO	25-02-2013 04.30PM	SECOND ROUND 26-02-2013 04.30PM	EEE	IV	IT	26-02-2013 03.30PM	
I	CIVIL	25-02-2013 03.30PM	SECOND ROUND 26-02-2013 04.00PM			FINALS 27-02-2013 03.30PM																			
	MBA																								
II	MECH	25-02-2013 04.00PM																							
	CSE																								
III	AERO	25-02-2013 04.30PM	SECOND ROUND 26-02-2013 04.30PM																						
	EEE																								
IV	IT	26-02-2013 03.30PM																							
	ECE																								
3	TUG OF WAR FOR GIRLS	26-02-2013 TO 27-02-2013	<table><tr><td rowspan="2">I</td><td>MECH</td><td rowspan="2">26-02-2013 03.30PM</td><td rowspan="2">SECOND ROUND 27-02-2013 03.30PM</td><td rowspan="10">FINALS 27-02-2013 04.00PM</td></tr><tr><td>MBA</td></tr><tr><td rowspan="2">II</td><td>CIVIL</td><td rowspan="2">26-02-2013 03.45PM</td><td rowspan="2"></td></tr><tr><td>IT</td></tr><tr><td rowspan="2">III</td><td>ECE</td><td rowspan="2">26-02-2013 04.00PM</td><td rowspan="2">SECOND ROUND 27-02-2013 03.45PM</td></tr><tr><td>CSE</td></tr><tr><td rowspan="2">IV</td><td>EEE</td><td rowspan="2">26-02-2013 04.15PM</td><td rowspan="2"></td></tr><tr><td>AERO</td></tr></table>	I	MECH		26-02-2013 03.30PM	SECOND ROUND 27-02-2013 03.30PM	FINALS 27-02-2013 04.00PM		MBA	II	CIVIL	26-02-2013 03.45PM		IT	III	ECE	26-02-2013 04.00PM	SECOND ROUND 27-02-2013 03.45PM	CSE	IV	EEE	26-02-2013 04.15PM	
I	MECH	26-02-2013 03.30PM	SECOND ROUND 27-02-2013 03.30PM		FINALS 27-02-2013 04.00PM																				
	MBA																								
II	CIVIL	26-02-2013 03.45PM																							
	IT																								
III	ECE	26-02-2013 04.00PM	SECOND ROUND 27-02-2013 03.45PM																						
	CSE																								
IV	EEE	26-02-2013 04.15PM																							
	AERO																								

4	TUG OF WAR FOR BOYS	27-02-2013 TO 28-02-2013	I MBA 27-02-2013 03.30PM CSE 27-02-2013 03.30PM II MECH 27-02-2013 03.45PM CIVIL 27-02-2013 03.45PM III EEE 27-02-2013 04.00PM IT 27-02-2013 04.00PM IV ECE 27-02-2013 03.45PM AERO 27-02-2013 04.15PM	SECOND ROUND 28-02-2013 03.30PM SECOND ROUND 28-02-2013 03.45PM FINALS 28-02-2013 04.00PM
5	TABLE TENNIS FOR BOYS	25-02-2013 TO 27-02-2013	I CIVIL 25-02-2013 03.30PM EEE 25-02-2013 03.30PM MBA 25-02-2013 03.45PM II CSE 25-02-2013 03.45PM MECH 25-02-2013 04.00PM III IT 25-02-2013 04.00PM ECE 25-02-2013 04.00PM IV AERO 25-02-2013 04.45PM	SECOND ROUND 26-02-2013 04.30PM SECOND ROUND 26-02-2013 04.45PM FINALS 27-02-2013 04.00PM
6	TABLE TENNIS FOR GIRLS	26-02-2013 TO 27-02-2013	I CIVIL 26-02-2013 03.30PM CSE 26-02-2013 03.30PM MECH 26-02-2013 03.45PM II EEE 26-02-2013 03.45PM ECE 26-02-2013 04.00PM III IT 26-02-2013 04.00PM MBA 26-02-2013 03.45PM IV AERO 26-02-2013 04.45PM	SECOND ROUND 27-02-2013 03.30PM SECOND ROUND 27-02-2013 03.45PM FINALS 27-02-2013 04.45PM
7	KHO-KHO GIRLS	27-02-2013 TO 28-02-2013	I MBA 27-02-2013 03.30PM CSE 27-02-2013 03.30PM MECH 27-02-2013 03.45PM II CIVIL 27-02-2013 03.45PM EEE 27-02-2013 04.00PM IT 27-02-2013 04.00PM	SECOND ROUND 28-02-2013 03.30PM SECOND ROUND 28-02-2013 03.45PM FINALS 28-02-2013 04.00PM

			IV ECE AERO 27-02-2013 04.15PM
8	KHO-KHO BOYS	25-02-2013 TO 27-02-2013	I CIVIL EEE MBA 25-02-2013 03.30PM II CSE MECH 25-02-2013 03.45PM III IT ECE 25-02-2013 04.00PM IV AERO 25-02-2013 04.45PM SECOND ROUND 26-02-2013 04.30PM SECOND ROUND 26-02-2013 04.45PM FINALS 27-02-2013 04.00PM
9	CHESS BOYS	27-02-2013 TO 28-02-2013	I CIVIL CSE 27-02-2013 03.30PM II MECH EEE ECE 27-02-2013 03.45PM III IT MBA 27-02-2013 04.00PM IV AERO 27-02-2013 04.45PM SECOND ROUND 28-02-2013 03.30PM SECOND ROUND 28-02-2013 03.45PM FINALS 28-02-2013 04.45PM
10	CHESS GIRLS	25-02-2013 TO 26-02-2013	I CIVIL MBA MECH 25-02-2013 03.30PM II CSE 25-02-2013 04.00PM III AERO EEE IT 25-02-2013 04.30PM IV ECE 26-02-2013 03.30PM SECOND ROUND 26-02-2013 04.00PM SECOND ROUND 26-02-2013 04.30PM FINALS 26-02-2013 03.30PM
11	CARROMS BOYS	26-02-2013 TO 27-02-2013	I CIVIL MBA MECH 26-02-2013 03.30PM II CSE 26-02-2013 04.00PM III AERO 26-02-2013 SECOND ROUND 27-02-2013 04.00PM FINALS 27-02-2013 03.30PM

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

S. No	Event	Location	Date	Participation Details	Awards	Remarks
2012 – 2013						
1	Technolites 2K12	Vardhaman College of Engineering	13-14 Oct, 2012	160	First Prize: Rs 2000 Second Prize Rs: 1500	
2011 – 2012						
1.	Technolites 2K11	Vardhaman College of Engineering	29-30 Oct, 2011	100	First Prize: Rs 2000 Second Prize Rs: 1500	
2.	C Ur Skill	Vardhaman College of Engineering	16 July 2011	10	First Prize: Rs 2000 Second Prize Rs: 1500	
3.	JAVA Soup	Vardhaman College of Engineering	23 July 2011	25	First Prize: Rs 2000 Second Prize Rs: 1500	
4.	Lets C	Vardhaman College of Engineering	30 July 2011	35	First Prize: Rs 2000 Second Prize Rs: 1500	
5.	JAVA Style	Vardhaman College of Engineering	06 August 2011	10	First Prize: Rs 2000 Second Prize Rs: 1500	
6.	Through C	Vardhaman College of Engineering	13 August 2011	14	First Prize: Rs 2000 Second Prize Rs: 1500	
7.	Hot JAVA	Vardhaman College of Engineering	27 August 2011	16	First Prize: Rs 2000 Second Prize Rs: 1500	
8.	C Critics	Vardhaman College of Engineering	03 Sep, 2011	09	First Prize: Rs 2000 Second Prize Rs: 1500	
9.	JAVA Action	Vardhaman College of Engineering	10 Sep, 2011	12	First Prize: Rs 2000 Second Prize Rs: 1500	
10	Groom Ur C	Vardhaman College of Engineering	17 Sep, 2011	14	First Prize: Rs 2000 Second Prize Rs: 1500	
11	JAVA Sip	Vardhaman College of Engineering	07 January 2012	12	First Prize: Rs 2000 Second Prize Rs: 1500	
12	Challenge With C	Vardhaman College of Engineering	21 January 2012	10	First Prize: Rs 2000 Second Prize Rs: 1500	
13	Power of UNIX	Vardhaman College of Engineering	28 January 2012	07	First Prize: Rs 2000 Second Prize Rs: 1500	
14	C Chat	Vardhaman College of Engineering	11 February 2012	15	First Prize: Rs 2000 Second Prize Rs: 1500	
15	JAVA Spin	Vardhaman College of Engineering	18 February 2012	12	First Prize: Rs 2000 Second Prize Rs: 1500	
16	UNIX Internals	Vardhaman College of Engineering	25 February 2012	10	First Prize: Rs 2000 Second Prize Rs: 1500	
17	C Axe	Vardhaman College of Engineering	03 March 2012	10	First Prize: Rs 2000 Second Prize Rs: 1500	
18	JAVA Me-ter	Vardhaman College of Engineering	10 March 2012	13	First Prize: Rs 2000 Second Prize Rs: 1500	
19	C Explore	Vardhaman College of Engineering	17 March 2012	12	First Prize: Rs 2000 Second Prize Rs: 1500	
2010 – 2011						
1	Technolites 2K10	Vadhaman College of Engineering	08-09 Oct, 2010	86	First Prize: Rs 2000 Second Prize Rs: 1500	
2.	C Ur Skill	Vardhaman College of Engineering	8 July 2010	18	First Prize Rs: 1000 Second Prize Rs: 500	
3.	JAVA Soup	Vardhaman College of Engineering	29 July 2010	13	First Prize Rs: 1000 Second Prize Rs: 500	

4.	Lets C	Vardhaman College of Engineering	18 August 2010	14	First Prize Rs: 1000 Second Prize Rs: 500	
5.	JAVA Style	Vardhaman College of Engineering	7 September 2010	12	First Prize Rs: 1000 Second Prize Rs: 500	
6.	Power of UNIX	Vardhaman College of Engineering	22 December 2010	08	First Prize Rs: 1000 Second Prize Rs: 500	
7.	C Chat	Vardhaman College of Engineering	5 January 2011	11	First Prize Rs: 1000 Second Prize Rs: 500	

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Every year after completing the semester, feedback information is collected through feedback form from students and also the feedback is collected from the faculty members and employers. After analyzing the feedback, necessary and appropriate solutions are being implemented to improve the performance and quality of the provisions of the College.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications / materials brought out by the students during the previous four academic sessions.

VCE encourages its students to publish materials like College Research Journals, College magazine. The students are also motivated to express their talent through articles, paintings. In Vardhaman Free flight is given for students creativity. The College magazine Impressions provides them with a platform to express them. The teachers motivate the students to bring out the creative genius in them. The students are participating in industrial exhibitions to develop their technical talents.

The College magazine name "Impressions" publishes half yearly. Impressions provide an opportunity for the students to bring out their creative skills. The Articles are contributed by the students as well as faculty. Those articles are published in the magazine under the supervision of the College editorial board. Through the magazine the activities of the college are made known to alumnae and others.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA - Computer Engineers Technical Association (CSE)
- ETA - Electrical Technical Association (EEE)
- VIVECA - Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT - Technical Association of Information Technology (IT)
- MACHINE - Mechanical Association for Creating Highly Innovative Engineers

National Level Student Technical Paper Contest relating to all branches, "TECHNOLITES", is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development.

Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students' participation.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Student Representative Forum:

The Student Representative Forum is a meeting of student representatives from throughout the College. Student representatives meet in the University Council room twice per year to discuss college wide issues affecting students.

Student Involvement Committee:

The Campus Sustainability Initiative engages students in educating the campus community to create a healthier and more responsible environment. Students work with faculty and staff to develop progressive solutions to reduce negative environmental impacts in ways that are economically beneficial. Although academics are your first priority, the things that happen outside the classroom offer some important learning experiences, too.

Library Student Advisory Committee: This student advisory group provides undergraduates with an opportunity to be involved in the decision making processes that guide the enhancement of learning spaces and library services. We need student input to do it right. Libraries advance intellectual discovery and connect people with knowledge. They are interactive, interdisciplinary spaces for scholarship where technology and information come together.

Extra-Curricular Committees: This Committee is constituted for conducting the activities to promote the extra-curricular activities among the students. The Committee identify students who are interest to culturally enlighten are spotted and efforts are made to develop their skills and talents by encouragement, right training and performances.

Study Tour Committee: The Head of the Department and two senior faculty constitutes a committee. The Committee plan and execute the tour programme and students visit various industries.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

The Alumni Association, has been active since January, 2007 after Prof. Y Pandurangaiah, Professor and Head, Department of ECE has taken charge as Chairman of Alumni Association and has been instrumental in organizing the First Alumni meet on the 4th February, 2008 in the college Auditorium. Then came, the moment of providing an opportunity for all the alumni to reunite during the Meet annually. From the year 2010-11, the Association also has decided to assist the financially weak students based recommendations of the Principal.

There is a provision in Vardhaman website that Alumina can register from any where and update their details. Every Annual day the alumni meeting are conducted.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

- 6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

The prime objective of Vardhaman College is to update and modernize the quality of professional education. Its aim is to employ innovative teaching methods which carry an emphasis on fast changing technological trends. This is to integrate classroom learning with actual work experience in the industry concerned or in a related professional field. The college aims to encourage students from the first year B.Tech itself, to identify suitable work areas and to execute projects of their own choice and interest. The teaching-learning process is carried-out through the use of overhead and LCD projectors. Vardhaman boasts facilities such as an extensive computer centre, library, advanced lab for communication skills, internet centre and spacious seminar halls and Electronic classrooms.

MISSION:

We propose to sharpen the inherent professional skills of our students to enable them compete in the complex world through our newly evolved quality management system and dedicated staff. The practical oriented education and the research tie-up with industries we provide, tend to promote the intellectual pursuits of the students.

VISION:

We, at the helm of Vardhaman College of Engineering, aim at inculcating the spirit of high ambitions, healthy attitudes, discipline and multi-dimensional excellence in the students and strive to mould them to scale new heights and get their mental horizons enlarged through value-based technical education and congenial study environment.

- 6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

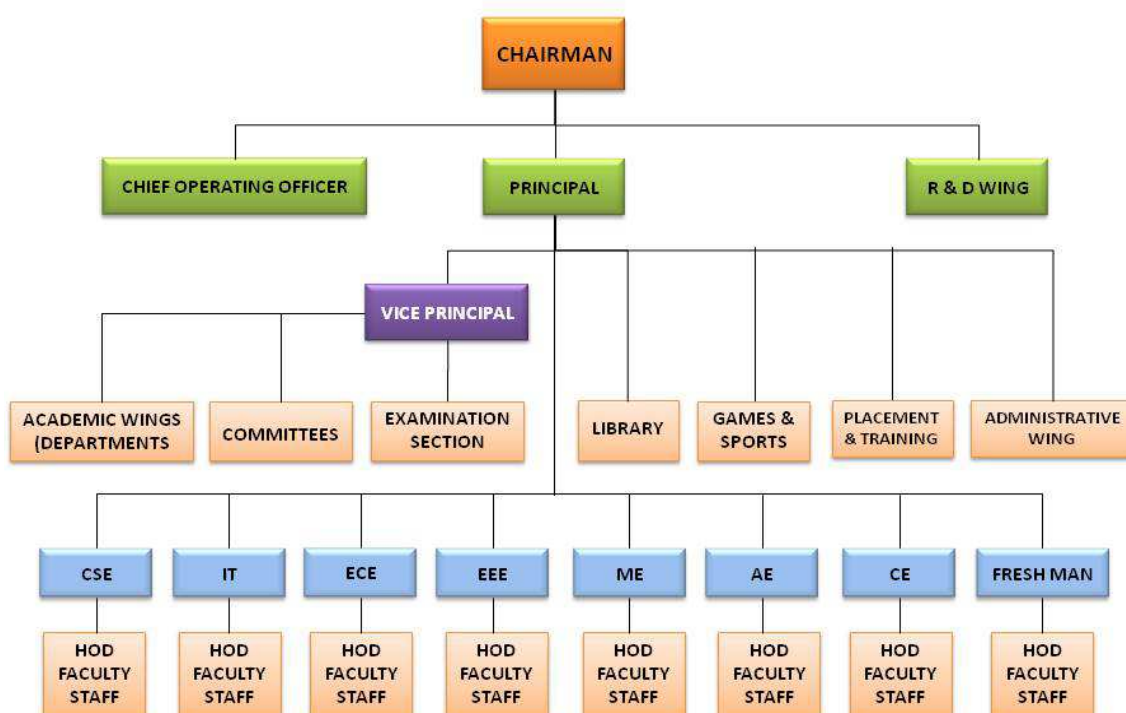
About the Management:

VCE is initiated by the Vardhaman Educational Society, The Management of VCE consists of a Governing Body with a panel of members as per norms of Society, nominees from the industry, regulatory body like UGC, AICTE, Affiliating University and the State Government. The elite decision making body of the college is the Governing Body. Governing Body of the college meets twice / once in a year to discuss various issues and aspects related to the development of the college. It includes considering and approving the institution strategic plan which sets the academic aims and objectives of the institution and identifies the financial, physical and staffing strategies. It chalks out a road-map to achieve the goals of the College.

About the Principal and Faculty:

The Head of the College is the COO and Principal. Together have the leadership to the College and the System to take care all the academic activities. They ensure the university norms and the regulations are observed. They convene the meetings of the Advisory councils, Board of Studies, the Academic council, planning and Monitoring, Finance committee, Selection Committees. They also over sees admission of students, recruitment of faculty, placements, curricular programmes, student feedback, internal and external assessment, financial implication, course contents, co-curricular and extra-curricular activities. The faculty are actively engaged and involved in decision making process. Periodic meetings of all Head of the department and also the intra-departmental meetings convey and implement decisions taken by the committees and endorsed by management. Senior faculties are represented in all committees by rotation to enhance administrative experience of all staff.

ORGANIZATION STRUCTURE FOR DAY-TO-DAY OPERATIONS & MANAGEMENT



6.1.3 What is the involvement of the leadership in ensuring?

The policy statements and action plans for fulfillment of the stated mission:

The policy statements has concurrence with the mission.

The college functions with a view to achieve the spirit of its mission, ie, to provide quality education and opportunities for the all-round development of the students. Action plans are developed on the basis of the stated mission. Such plans are implemented within the time frame. Planning in the College is collective “Bottom to Top” process. Requirements are gathered at functioning level and assessed and forwarded to administrative level. This results in a plan reflecting actual requirements. It is guided by vision and mission and willingness to fund any developmental expenditure by the Management.

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:

Based on the policy statements, the management strictly follows Strategic plans to accomplish the academic excellence. The activities of relevant strategic plans of various activities, operations are recorded chronologically. These process measures are audited simultaneously. It decides the funding, evaluation, appreciation, research and other strategies. It considers the previous experiences while deciding the strategies. It considers the previous experiences while deciding the strategies. By stressing on excellence in research, innovation, diversity, the College meets its commitments and realizes its goals.

Interaction with stakeholders:

VCE frequently creates platform for interaction with stakeholders. VCE maintains harmonious relations and resolving conflicts at all levels through the stakeholder's involvement. Parents-Teachers Meeting will be conducted regularly to update them regarding the progress of their wards. Management will interact with the employees once in six months in the form of meetings. The opinions and suggestions are drawn towards improving the qualitative aspects of the institution and guide them towards achieving excellence. For students, Mentor meetings are conducted once in a month to interact with their mentees and allow them to express their concerns if any and motivate them in their academic and personal endeavors.

Proper support for policy and planning through need analysis, research inputs and consultations with the stake holders:

All the stakeholders of different levels are consulted; suggestions are drawn through their qualitative opinions. Policy and planning is done after discussions with stakeholders in the respective meetings and through feedbacks and discussions. New programmes are initiated only after proper analysis of the need and relevance of the proposed projects. The research inputs and facilities, opportunities for consultancy and extension etc., are discussed by a team of experts and final decision taken by the leadership in view of welfare of all the stakeholders.

Reinforcing the culture of excellence:

The management even with the changing composition of the parameters as per policy is always alive to the needs of changing organization at the same time strives in maintaining the culture of excellence. VCE channelizes the procedures and practices with respect to the prevailing external environment and hence proves to create an atmosphere as Center for Excellence.

Champion organizational change:

VCE is always vigilant in observing the changes in the global academic scenario, and updating the programmes and facilities accordingly. The commencement of rare courses, research centers, modernizing education and administration through use of computer and internet facilities. Some of the changes are registering for virtual lab, water harvesting, use of solar energy etc., are some changes which are in plan. Prior to of any new programme a feasibility study is undertaken, The result of this study is presented at the micro as well as macro level Meeting which then introduces suitable modifications if necessary. Changes in the existing rules and regulations are bout after a tho-

rough discussion in the meetings based on the needs of the present generation.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The following procedures are adopted to monitor and evaluate policies and Plans of the College:

- * In order to monitor and evaluate policies College Quality Development, Monitoring and Assessment Committee (IQDMAC) has been established under the leadership of the head of institution, which makes a quality policy for improving the teaching learning process. For the purpose of effective implementation and improvement in the policy, suggestions are taken from the faculty and the stakeholders through the alumni association and parent teacher meets.
- * Our plans and policies lie intertwined with our commitment to expand to Industrial Heights, higher education without compromising quality to ensure that the economic, social and market needs are met in the areas of intellectual development and human resource provision.
- * Monitoring of all activities is done on a daily basis by the IQDMAC. The evaluative report for the month after monitoring will be presented in the monthly faculty meetings. All the heads of departments also present their observations, suggestions for improvement and resource requirement. The annual evaluative report is presented by the Principal to the top management and stakeholders.
- * At the end of every academic year external audit is conducted to assess the teaching learning process to individual department.
- * In addition, feedback from students is obtained through representatives of the college union, student suggestion box and Student Grievance Cell. The heads of the departments keep regular contact with the students and other stakeholders and their suggestions are noted and utilized for the implementation and improvement of the policies and plans.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top management, the COO has a potential map of the faculty and is able to rightly identify their individual strengths, areas of interest and accordingly assign responsibilities. The top management of course takes steps to nurture the careers of faculty members with diverse abilities and goals by engaging them in workshops and practical sessions designed to give them the skills and confidence to balance competing demands. Interactive training sessions are given to the faculty by the former Principals and veteran retired professors, Industry Experts of the institution.

The committees like appointment, development, infrastructural requirements and student disciplines constituted in the College. The head of the College and senior staff members are nominated by the management for these committees. These are headed by senior teachers who get the work done under their leadership by the Committee members which is monitored by the Head

of the College. The above committee present and provide information, projections and suggestions if any in the meetings and responsibilities for all members of the College are clearly defined and communicated to the respective staff through the head of the institution.

6.1.6 How does the college groom leadership at various levels?

The organizational chart of the College is well defined at each level, the goals and responsibilities are stated unambiguously. In consonance with this policy, most of the academic and administrative powers in a large measure are delegated to the respective Deans of Faculties, and the Heads of the Teaching/Administrative Departments/Offices, including Research and Development. It defines the levels and associates the proper person for its implementation. The main levels are: administration, academic, Career Guidance, Training & Placement, Research, Students activities, Grooming of leadership: VCE has always been encouraging and supporting the involvement of the staff in the improvement of the effectiveness and efficiency of the institutional process. The management through the head of the institution involves the staff members in various activities related to the development of the college.

The staff members are involved by way of constitution of committees such as Grievance Redressal Committee, Faculty Empowerment, Anti-Ragging Committee, Transport committee, Canteen Committee, Staff Recruitment Committee, and Discipline Committee etc. The best working committee and the staff members involved are suitably rewarded. At the student level, all departments have student representatives either nominated or elected. College promotes the leadership among the students through student council. College nominates University representative, Class representative, Hostel representative to develop the leadership quality among the students. College organizes various activities like games, training, social, cultural, co-curricular, and extra co-curricular events to enhance leadership in faculty and students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The college is working towards the decentralization of Governance as under:

- * This form of decentralized functioning mechanism, empowers the departments and individual faculty with a great level of flexibility in academic administration, and helps the faculty in making decisions at the local level.
- * The individual department has autonomy to develop and implement Student centric & faculty centric process file system / notices / attendance / monitoring / database management.
- * The staff council of the college is headed by the Principal and has got all the HOD,
- * Dean, Directors as members ensures the proper implementation of the decisions and directions given.
- * The decisions taken are passed on to the Executive committee comprising Secretary, Treasurer and Principal of the institution. The Executive committee authorizes with suitable guidelines to the Planning and Moni-

- toring Board of the college to find the ways and means for implementing the decisions taken .
- * The individual department has its freedom to organize various activities such as seminars, workshops, FDP's, STTPs etc;
 - * Students activities, Student associations, ISTE, Industry interaction can be done at department level.
 - * All the Departments have their own department libraries for the students, as well as for the staff members.
 - * Secretary and COO can jointly review any high value proposal and are empowered to take a decision in the interest of the college with advice of the Chairman.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management:

VCE administration is strictly adheres to a participative approach. COO is the head of academic and administrative affairs. All policy changes and academic activities are planned through a process of dialogue with stakeholders at various levels of the management system. It has inculcated the practice of hearing the voices of all the stakeholders. Every month department meetings are being held in all departments where internal issues within the department are discussed. Every fortnight staff council meetings are also held to discuss and decide issues at the institutional level. Faculty feedbacks are well appreciated and received by the heads of the department and in turn the suggestions of heads of the departments and deans are perceived well by the top management. The various committees, their responsibilities and their meetings at stipulated intervals take place throughout the academic year. The COO is responsible to constitute different committees involving the staff members. He, along with the other members of the various committees such as the College Academic Affairs Committee, College Quality Development and Monitoring Committee AICTE Committee, NBA Committee, NAAC Committee, Finance Committee, Library Committee, and various other Sub-Committees, keenly observes the day to day working of the college administration, governance, management and academic activities.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The development of the structured quality policy is continuous process in VCE. Quality policy was originally stated by the Governing Council. Quality policy is derived and aligned with respect to the vision and mission of the institution. Quality policy clearly

States the objectives of the institution, their process of progress towards the achievement of objectives and its contribution to the society. Every semester these processes are reviewed and the necessary corrections are incorporated.

The academic quality policy of the College is to have infrastructure which is state-of-art, recruit qualified teacher and the teaching-learning process must meets the program outcomes. The Management holds formal and informal dialogues with the staff, from time to time, to redress any grievances. It is

deployed and reviewed by the information gathered from students, parents, various committees on teaching learning and development of the institution are acknowledged for the further improvement of the performance and decision making. The plans and policies are geared up by the Academic Committee based on the activities suggested by various departments for the particular calendar year. Continuous appraisal of the performance of the students, teachers and administrative staff is done regularly.

6.2.2 Does the College have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

VCE's perspective plan is chalked out annually. It is based on the instructions from Head of institution after meeting all concerned heads of various departments and committees at institution level along with individual proposal at faculty level being considered for an agenda point for discussion at annual governing body meeting. The same will be reviewed periodically throughout academic year in measuring efficiency. The following aspects included in the plan:

1. Effective Teaching and Learning
2. Research, Consultancy and Extension
3. Academia-industry interaction
4. Student Career Progression
5. Infrastructure Development
6. Society / Nation Development

To implement the plan will be drawn from the following committee's recommendations with priority.

- * Academic Advisory Committee
- * Administration committee
- * Student Counseling Mentoring committee
- * Internal Quality Development and Monitoring Assessment Cell (IQD-MAC)
- * Industry College Partnership Cell
- * Entrepreneurship Development Cell (EDC)
- * Placement Cell Committee
- * Class Review Committee
- * Disciplinary Committee
- * Alumni Association committee
- * Parents Association committee
- * Student welfare Committee
- * Grievance Redressal committee
- * Accounts and Finance committee
- * External & Internal audit committee
- * Anti- Ragging committee

The plan begins with statements of institutional mission, vision, and core values, followed by an articulation of key strategic issues. It addresses the various issues from the stake holder perspective that is, it takes steps to fulfill the requirements of its students, their parents, employer community etc. It also takes effort for improving the internal development of the institution by inculcating harmonious work culture. Learning and growth scope of the institution is also well explored from various dimensions. Every year, the educational development perspective shows steady progress by applying for new UG and PG affiliating programs from Jawaharlal Nehru Technological University

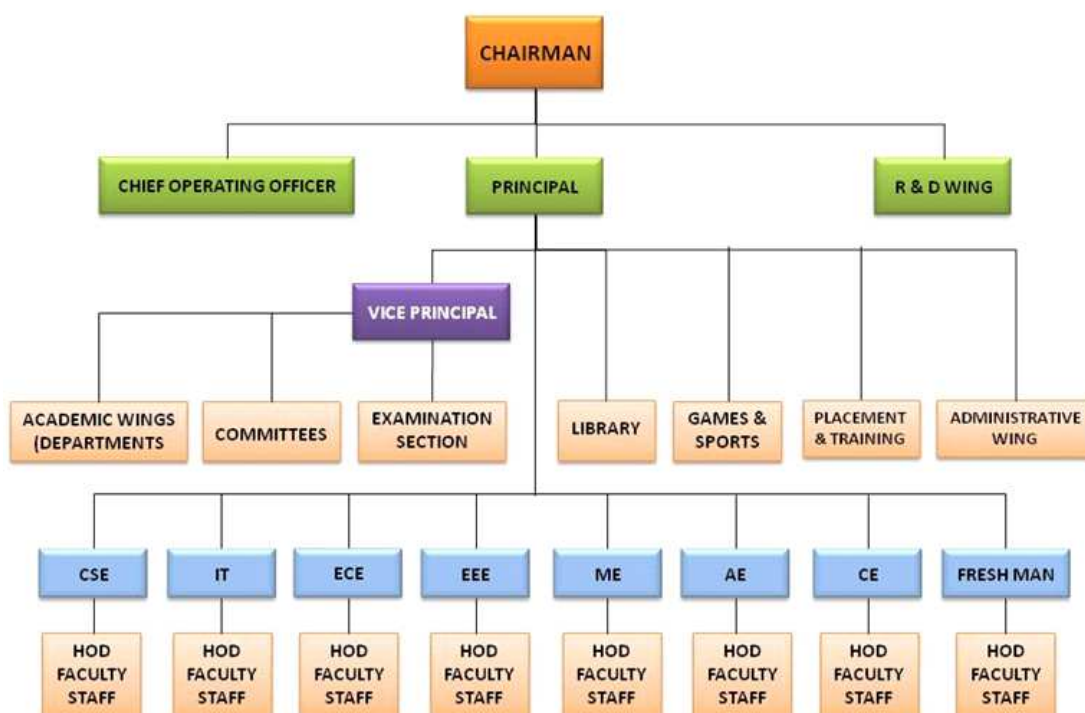
approved by AICTE. Financial perspective is also addressed well. Various endowments and grants are received from external organization, alumni chapter etc. Revenue is generated by conducting seminars, workshops, faculty development programs etc. Consultancy grants, funding from research proposal schemes, MODROBS are also made available with the help of eminent faculty.

6.2.3 Describe the internal organizational structure and decision making processes.

The key internal organizational structure of the college is Governing Body, COO, Principal, Head of the Departments, faculty, non-teaching staff in the other wing Students, Parents. The elite decision making body of the college is the Governing Body. Governing Body of the college meets twice / once in a year to discuss various issues and aspects related to the development of the college. It includes considering and approving the institution strategic plan which sets the academic aims and objectives of the institution and identifies the financial, physical and staffing strategies. It chalks out a roadmap to achieve the goals of the College.

The COO provides overall leadership and direction to the institution and presides over its academic and administrative bureaus. He is the academic, administrative and financial head of the institution and reports directly to this Governing Council. Monthly wise the coo interact with the HOD's, the various committee members to function based on strategic plan agenda. Each agenda is worked upon and propagated with the help of various committees like board of trustees, governing council, staff council, planning and monitoring board, discipline and welfare committee, complaints & redressal committee, anti ragging committee and student association from the faculty end. The student issues are brought into notice from the students' association. These committees' meets often, discusses the related issues and take appropriate decision with respect to the requirement.

ORGANIZATION STRUCTURE FOR DAY-TO-DAY OPERATIONS & MANAGEMENT



In the other side of the organizational structure the non teaching staff, the administration staff, supporting staff are there. They will do their allotted works. Some of the non teaching staff supports to the teaching faculty in various activities like organizing events, seminars, cultural activities, sports & games etc. The administration staff look after the student admission process, scholarships, transport facilities etc.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

TEACHING & LEARNING:

As per policy norms of VCE, infrastructure is with inherent qualities of excellent Clean and green concepts equipped with state-of-the-art ICT facilities. The College strictly follows the norms of the AICTE. Based on the requirement, college enhances its infrastructure from time to time so as to facilitate effective teaching , academic growth. Subscribed 650 online journals, 156 Indian Journals, Web based recourses to make available of online learning recourses. All class rooms are equipped with multimedia facilities by providing audio-visual equipment and also having Webinars center which facilitates the video conference for effective learning process. The college website www.vardhaman.org is fully automated with all course contents in e-recourses to make very much available to students. The VCE campus infrastructural facilities are extending a great support to conduct academic, co-curricular, extra-curricular activities, placements and sports activities. VCE had very good infrastructure which is having spacious class rooms, adequate laboratories, Library with reading room, Internet with Wi-Fi connection within the college campus, two Auditorium, Canteen, Transport facility, Play ground, Boys & Girls hostel in the campus. The campus is facilitated modern infrastructure for the research activities in various departments. VCE is also planned to enhance the existing facilities for research activities. There is still ample space for infrastructural expansion.

Research & Development:

The Centre for Research & Consultancy (CRC) was established in 2009 to improve the College-Industry interaction and provide need based technology to existing industries. It is established with a seed grant of Rs. 10 lakhs to carry out basic research in various branches of Engineering and Sciences. R & D center interacts with different funding agencies, identifies their problems and solves them in stipulated time. Since its inception, the centre is carrying out major consultancy projects and many minor projects and testing work. The centre has procured a number of equipments / instruments required for consultancy work. It has also contributed to seminars / workshops and research oriented student's projects. Its aim is to bridge the gap between Industry and College and provide the necessary technical support to industries to solve their problems.

Major Objectives:

- * Provide technical assistance to industries and user Organizations / Departments.
- * Promote research and develop appropriate technology.
- * Promote exchange programmes between industries and the institution.
- * Support Short-term courses/Seminars/Workshops for effective dissemination of knowledge.
- * Establish testing/consultancy centres in various fields of engineering.

- * Procure state-of-the-art equipments required for testing/consultancy.
 - * Arrange for servicing/repairs of equipments to keep them in good condition.
 - * Extend the necessary assistance to Staff to attend National/International Conferences, Seminars, Workshops etc.
- It is hoped that the centre will continue to grow and become a major consultancy centre in the years to come.

Community Engagement:

VCE is engaged in different types of Community engagement programmes so far as the development is concerned.

- * Blood donation Camps
- * Health camps
- * Village adoption
- * Providing food, clothes and other needs to orphans home, old age homes.
- * Serving the people when they suffer from natural calamities like floods, epidemic diseases.
- * Youth Festivals.
- * Tree Plantations
- * Environment Awareness programs
- * Contribution to charitable trusts.
- * Rain Water Harvesting

Human resource Management:

VCE Management recruits adequate no. of qualified Teaching and supporting staff as per AICTE norms through codified procedures of open advertisement. Advertisements will be released in the newspapers twice a year for the required positions. The applications received are short listed based on the qualification and experience. Such short listed candidates are called for personal interview. The information also made available on college website and encourage academicians to apply directly. After shortlisting the eligible candidates based on the position wise criteria, we invite them to our campus for Demo and interview by Selection Committee. AICTE/Govt. of Andhra Pradesh/JNTU Hyderabad norms are adhered in appointment of faculty and supporting staff.

The staff is instructed to read and understand service rules, job responsibilities, work schedules, leave rules, conditions of career advancement, staff training and development, supporting staff, awards, grievance redressal cell, women's cell etc. There are also many staff welfare schemes such as periodic staff training, Sponsoring for attending to conferences, journals, Medical Leave, Maternity Leave etc.

INDUSTRY INTERACTION:

VCE, being a fine blend of educationists and entrepreneurs has superior relations with corporate houses and other prestigious institutions. As part of industry interaction VCE adopts and initiates practices to find the expertise by not only recruiting faculty from industry but even it provides a platform for practical exposure to the students and faculty as well.

The activities initiated are

- * Industrial Visits
- * Professional Societies/Bodies.
- * Guest lectures by professionals from industry
- * Invited lectures from industry.
- * Special Lecturers from academics.
- * Industry College Partnership Cell
- * Entrepreneurship Development Cell

As part of the Industry College partnership, VCE is tied up with IBM for the center of Excellence. IBM Under the Memorandum of Understanding the College has the privilege of Training the faculty and students using IBM Software. Orienting and guiding the faculty and students towards free product certification. IBM will provide its Technology products and services for training programs in Vardhaman College of Engineering.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution:

The COO as the Head of the institution regularly collects feedback from students, HoDs, parents with the support of various Deans and committees. He ensures that the information is available to the top management, HoDs and the stakeholders. Review will be done on the information and activities of the institution through evaluation, periodical meetings with Alumni, Parents, students and staff regularly.

The Deans of various departments collect reports of all the cells functioning in the college, and these reports are discussed in the Council to review the growth of the Institution. The council recommends improvements to be made. The COO arranges further facilities if any as required. The feedback received from the stakeholders also serves as a source of information for future improvements. Consolidated reports are prepared by the COO and forwarded to the Departments from time to time.

Head of Institution also presents detailed annual report of activities carried out in annual social gathering which is attended by major stakeholders to the top management. Under the supervision of COO, College organizes the parents, industry persons and alumni meet and give feedback and seek their suggestion for the activities of the College. These suggestions may take step for the growth of the college.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The management is always encouraging and supporting the involvement of the staff in the improvement of the effectiveness and efficiency of the institutional process. Each and every individual in the institution will be made responsible to attend to certain duties assigned by the Head of the Institution through the management. Both Teaching and non-teaching members will be involved in different institutional process like Admissions, Recruitment of the staff, correspondence with University, Representatives in Governing body, the members in various Committees like Admissions Committee, Academic Committee, Examination Committee, Placement and Training Committee, R & D Committee, Library Committee, Planning and Evaluation Committee, Students Welfare and Extracurricular Activities Committee, Grievance Redressal Com-

mittee, Alumni Committee, Anti-Ragging Committee, Disciplinary Committee, Sports and Games Committee, Poor Students Welfare Committee, Women's Cell, Department library, Departmental Board of studies, Professional Associations like IEEE, organizing different events in the institution like FDP's, Conferences, Workshops, fests, etc.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

VCE last year resolutions are following:

- * Apply for UGC Autonomous status
- * Apply for NBA Reaccreditation
- * Apply for Accreditation from NAAC

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. Jawaharlal Nehru Technological University, Hyderabad is made the provision for the status of Autonomy and Permanent Affiliation. VCE obtained the permanent affiliation, Autonomous status with its enough credentials and Confidence from JNTUH, Hyderabad. Now VCE is applied for Autonomous status from UGC.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

Formation of a Cell in accordance with the provisions of Right to Information Act, 2005. All the grievances addressed by the stakeholders are examined by the Grievance Redressal Committee and appropriate solutions are suggested.

Grievances Redressal Cell is formed in order to keep the healthy working atmosphere and to uphold the dignity of the College by ensuring strife free atmosphere in the College to promote cordial Student to Student relationship, Student to teacher relationship and Staff to Staff relations etc. This Cell also helps Staff, Students and Parents to record their complaints and solve their problems related to academics, resources and personal grievances.

Woman Harassment complaints will be handled by WOMEN'S GRIEVANCE REDRESSAL CELL as per Government guide lines.

Suggestion / complaint Boxes have been installed at different places in the College campus in which the Students/staff, who want to remain anonymous, put in writing their grievances and their suggestions for improving the academics/administration in the College

Students, Parents and staff can lodge a complaint. Students can also lodge Ragging complaint. The person concerned can personally approach and write / e-mail any member of the Cell. They can send email on grievances@vardhaman.org or write an application and submit it to Cell convener.

Members:

1. Dr. V. S. Prabhakar, Associate Professor of ME - 9618431428
2. Prof. D Shobha Rani, Professor and Head of EEE
3. Prof. Y. Pandu Rangaiah, Professor and Head of ECE
4. Dr. B. Venkatesh, Professor of ME
5. Sri. H. Venkateswar Reddy, Associate Professor of CSE

6. Sri. A. Bhanu Prasad, Associate Professor of IT
7. Sri. Md. Asif, Associate Professor of EEE

Functions:

1. A grievance Redressal committee is formed to look in to the complaints from the aggrieved.
2. Suggestion/ Compliant Box are provided at Office of Principal for students and staff to lodge their complaints/ suggestions.
3. The report of grievance committee is forwarded to Principal for further action
4. The corrective measures are taken and recorded in the register.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the College? Provide details on the issues and decisions of the courts on these?

No. No Courses filed.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

The college has a mechanism for analyzing student feedback on the performance of the college. Each year students are given an opportunity to provide confidential feedback on various aspects of the college functioning such as the college, the course, the faculty, departments, canteen, non-teaching staff, teaching-learning assessment, research, extension and special resources such as Labs, Library, ICT, amenities and other facilities based on a standardized questionnaire provided.

In this regard the feedback is collecting from students, Alumini, Parents.

Students Feedback: Based on the student feedback and analysis teachers are advised to improve in the parameters like audibility, class room board management, Use of teaching aids etc., Faculty member who scores less than 75% feedback from the students will be counseled for improvement by head of the department. Faculty member who scores less than 75% feedback from the students will be counseled for improvement by head of the department. Apart from the every academic year exit feedback are collected from the passing out students based on which best teacher award is given.

Alumni feedback: The alumni survey is a written questionnaire which alumni are asked to complete. We use this survey seeking input on the Program Objectives and Learning Outcomes based on their experience after graduation and after they have spent time in the working world. Alumni are an excellent resource with perspective on the value and advantages of their education. They are also resource for current students for potential networking and employment. The data will be analyzed and used in continuous improvement.

Parents Feedback: An exclusive Parents meet is arranged where in the Chairman of the Society and eminent personalities from different walks of life address the gathering. The parents interact with the faculty and Management on the occasion. Parents are going to give feedback and suggestions on college, infrastructure, faculty etc. The suggestions for improvement consider by the management.

Committee, Library Committee, and various other Sub-Committees, keenly observes the day to day working of the college administration, governance, management and academic activities.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional Development of its teaching and non teaching staff?

The Institution believes in the value-based, culture oriented and quality education.

The following are efforts made by the Institution to enhance the professional Development of its teaching and non teaching staff.

- * College provides Sponsorship to faculty for perusal of higher studies.
- * College providing the registration fee and deputed the faculty to attend workshop, conference, seminar, symposia and training programs to other reputed colleges, Industries.
- * College organizing in-house faculty development programmes, administrative skills development, value based programs, teaching learning courses to enhance professional skills.
- * Every Year e-journals like IEEE, ACM, ASME, JGATE, Elsevier etc for to enhance the knowledge of faculty as well as students.
- * College providing Laptop, Wifi, one desktop system for every two faculty.
- * College grants special leaves to faculties for higher studies in the Colleges.
- * College assists & encourage faculty for availing membership of national, international & professional bodies.
- * College gives motivation & encourages the student & staff for arranging industrial training / visits.
- * College motivates faculty for research and development by providing facilities like research labs, Equipment etc.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

College organizes training programmes for personality, teaching skill development of teaching & non-teaching staff. It also enhances administrative skill development of staff by organizing the corporate training programs like Mission 10x. It deputed the faculty for the training organized by other organizations like TEQUIP, IUCEE. Colleges arrange webinars of IUCEE, IEEE, ACM & ASME to aware faculty with the recent trends & development in new areas. It organizes resource lectures of eminent faculty for sharing their experience. College organizes value based training of art of leaving, ethical and moral values. Faculty are entitled to be sponsored for training programmes, paper presentations, attending seminars, workshops, quality improvement programme etc. After the recruitment of the faculty, they are given orientation programme about the policies and procedures prevailing in the institution.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

At the end of each semester, a filled-in feedback form will be collected from the students about the faculty engaging the class, which evaluates about teaching methodology, creativity and level of understanding. The self-appraisal form will be filled in by the staff by providing the details of teaching, Pass percentage in External Examinations, Research, books and papers published, conferences, seminars, workshops, training programmes, academic administration carried out during the academic year. In the appraisal form, the Head of the College gives the feedback about the overall performance of the faculty on the basis of the information provided by the staff members in their self-appraisal form and also through regular presentations where contributes the information and ideas in the improvement.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Each faculty member is required to submit a self-appraisal report annually on the basis of parameters as teaching hours, number of subjects taught, research papers/articles/books published, conferences attended, papers presented in the conferences, new curricula designed/developed, participation in extracurricular/co-curricular activities, extra responsibilities assigned by the university, and other contributions made towards the society. A summary of the Performance Appraisal Report is presented to the Top Management. The scores are communicated to the faculty in a personal interview. After the assessment of the faculty the following are decided offer promotions, additional appreciation and rewards, deciding the regular increments, avail suggestions from the evaluators for improvement.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The College is committed to faculty welfare and it offers a platform for the talented and the aspiring. The VCE has implemented following social welfare schemes:

- * VCE has been giving due importance to staff welfare; all regular employees are covered by Provident Fund, Gratuity and Health Insurance expenses.
- * There is a provision of maternity leave given to the faculty.
- * On Duty leave is given, for attending seminars, conferences, workshops, training programmes, faculty development programmes etc.
- * Free Transport is provided for Non-Teaching staff.
- * Monetary and career Advancement benefits for those with higher qualifications such as Ph.D. as well as opportunities for those who wish to improve their qualifications.
- * Under medical grounds special permission is permitted by Head of the Organization.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Attracting and retaining eminent faculty is the most important aspect of institution building. Institution creates opportunities for self improvement and provides sound working atmosphere to assure job satisfaction among the staff. It helps the institution to attract and retain eminent faculty. A prominent position, Academic freedom and handsome salary is offered to the faculty within the administrative realm according to their experience and qualification. They are more of an asset to the institution.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

College constituted finance committee with the Governing Body, COO and Principal. The Finance committee plans the annual budget for utilizing the Income, funds granted every year. College monitors the earnings by projected admission, projected possible funding from other agencies & revenue collection by deposits, interest on deposits & other asset. It allocates the funds for salary, infrastructure development, research, equipment in laboratories, furniture, books, journals, faculty development and other necessary recurring. Collection of tuition fees, purchases of materials, books, stationeries, equipments and its maintenance, payment of bills are made through Accounts.

For efficient and effective use of available financial resources, plans, budget, Expenditures are collecting from department level. For Salary, Income Tax, Purchase separate dedicated office staffs are assigned. All receipts are maintained in a guard file, and other transactions are also recorded in the stock registers. In the beginning of each year, every department furnishes revenue and capital budget which will be reviewed and approved by the trustees. Budget is reviewed by treasurer, secretary and COO on a quarterly basis. Whenever any deviation occurs in the budget, respective HODs have to address the issue and give justification so that subsequently the same will be Approved.

In the departmental level for any expenditure staff member has to take prior approval of the head of the department and the College and they have submit proper bills or necessary proof for such expenditure. At the end of the each financial year a Balance sheet of Budgeted amount and actual amount spend is prepared to see the deviations in utilization of the funds. This will help to monitor efficient and effective use of financial resources in the College.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The institution is a private unaided College the accounts of the College are audited by the External qualified Chartered Accountant each year. The last audit was done in the month for the Academic year ending 2013 and there is no audit pending. The annual reports are made on the basis of factual data's

and reports so made very transparent and authentic. The audited report by the external CA is placed before the Management for vetting and rectification, if any. The qualified remarks if any, given by the auditor are taken into consideration.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any:

The College's major sources of funding are:

- Total fee collected from the students.
- Grants received from AICTE, NBA and TEQIP.
- Grants received from the sponsoring agency toward Seminars and Conferences.
- VCE Endowment Fund from well wishers and alumni.

VCE manages its funds through budgets:

VCE Society supports if there is any deficit on account of recurring & non recurring expenditure. In case of delay in fee-reimbursement from the government, the same is met through a bank loan depending on the urgency of the requirement. Reserve Funds: The following reserve funds have been available with the College in the last four years:

Financial Year Reserve Fund Available in Lakhs

Financial Year	Reserve Fund Available in Lakhs
2012 - 2013	30,00,000
2011 - 2012	24,00,000
2010 - 2011	27,435,898
2009 - 2010	29,00,000

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The institution securing the additional funds by organizes seminars and conferences. The expenditure for the conduct of these seminar and conferences is met by the grants received from the sponsoring agencies such as AICTE etc. From sponsor research projects the earning funds will be utilized for the same activity. Additional fund which is unutilized will be returned to the same organization.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

- a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes. The College established Internal Quality Assurance Cell. The policy regarding to quality is continuously strive to achieve standards of excel-

lence in teaching learning, continuous education, research and lifelong learning and supportive functions by self evaluation and constant improvements, the efforts and measures of an institution towards academic excellence, broaden global perspectives.

b. How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

The following decisions are approved by IQAC and also implemented by Management.

S. No	IQAC Planned	College Implemented
1	Establishment of Research Lab	
2	Subscription of e-journals for the library.	More than 650 e journals subscribed for the year 2012-2013.
3	Undertake Research Projects and avail Professional bodies funding	College encourages & support for professional bodies funding like IEEE, AICTE, DRDO, BARC.
4	Motivate faculty for Higher Education.	College sponsored the faculty for PG and Ph.D Programs.
5	Courses to address content beyond syllabus.	College organized the workshops, National conference and programs on contents beyond syllabus as the faculty got motivated.
6	Suitable mechanism to ensure regularity in holding classes has been developed and put in place. Students' attendance is being monitored.	The committee members monitor class work, regularity of the students and the day to day activities. In case any deviation they will take the decision for remedy and implement it.
7.	Establish Research journal	Planned

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes. They contributed in establishment of research journal, availing the machines / models from industry, establishment of problem solving group of students, motivating faculty for research, evaluating the faculty and guiding them for improvement in teaching learning.

d. How do students and alumni contribute to the effective functioning of the IQAC?

IQAC interacts with students and alumni. The alumni contribute for the enrichment and enhancement of the quality of education by associating and involving in fostering professional, academic links with the institution. They shares knowledge with IQAC about the Institutional processes and industry expectations. Alumni Association has come forwarded to assist both in placement activities and quality improvement of both students and faculty members by concreting the relationship between industries and the College.

They are instrumental in gaining valuable insights about various industries, employers and society. They assist in identifying the skills required by the students to obtain specific positions in the companies. They regularly provide information to the faculty members through which

the institution up-dates academic programmes and value added programmes most relevant to the current requirements.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

IQAC conducts the meetings with staff. IQAC Communicates with faculty and students through Heads of the Departments. All the Heads are members of IQAC. They also invite the staff nominees for IQAC meetings. IQAC reviews the achievement of staff and appreciates and interacts with staff. IQAC also engage some staff for its administration and developmental work. IQAC also consists of members from different constituents of the institution the decisions of the IQAC are communicated to all parts. Through circulars, notices and reminders the IQAC communicates various decisions to all the parts of the institution.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation:

The academic functions, administration are vastly streamlined ever since the functional committees are formed. The feedback on the College from all the stakeholders helps to improve the performance of the College. The feedback on faculties obtained from students has helped analyze and evaluated the performance of the faculties. The evaluation has led to remedial measures to improve the performance of teachers and to encourage teachers who have been efficient and full of initiative. The self-appraisal mechanism started for teachers, together with the student feedback has been very useful for the Principal to arrive at an overall performance report of the faculty. Arrangements of faculty development programmes, skill development programmes for students and non teaching staff, continuous up-gradation of laboratory facilities, library and office automation, enhancement of student support services like Placement, career guidance, counselling, mentorship, encouragement to culture and sports activities.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

The institution always makes sure that the decisions given by IQAC are fully adhered to. The academic and administrative work is smoothened by conducting time to time training sessions for the teaching and non-teaching staff. Seminars, Faculty Development Programs are conducting over the weekends, in the form of interactive sessions, have helped the staff of the institution work in a better and more promising way.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

The College invites the academicians and industry experts and does academic audit.

The audit gives the feedback about the areas where there is scope for improvement. Accordingly College plans and implements the processes. Besides this institution is affiliated to JNTUH, Hyderabad. The university has its set mechanism to audit the academic working of the institution. The university every year sends a team of the experts to conduct academic audit. The team visits the College and observes the working of the institution in all its aspects. The committee then comments on the performance and thereby suggests any important changes required. Similarly the other form of audit is in the form of a team visiting the institution as and when any new course is introduced. This committee, too like the previous one remarks and suggests on the changes desirable in the College. The College adheres to the recommendations made by the committees. The strategy used in the college has been effective in engaging academic staff in quality and also resulting in positive changes. The college used audit as an opportunity to drive change and improvement in academic and nonacademic areas.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The College quality assurance mechanism are developed using the guidelines of quality assurance agencies like AICTE, NAAC, NBA. The College studies the quality assurance norms of university, NAAC, NBA and develops the quality assurance mechanism for teaching and learning, research, industry College interaction, higher studies, good citizens and academic audits. The external regulatory authority is the Affiliating University, JNTUH, Hyderabad. College internal quality assurance procedures are made in compliance with the requirements of the affiliating university.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Monitoring and review of teaching-learning process is performed by the Heads of Departments and supervised by the Dean of Academic Affairs. HOD allots the subjects to the faculty as per their specialization. The faculties are requested to submit the Lesson Plan and Lecturer notes of allotted subject before the commencement of the semester this will be verified by the HOD. Senior faculty members are asked to review the teaching of junior faculty members. Assignments, Mid Term Examinations are conducting for continuous assessment. Counseling is given to slow learners. Parents of such students are called to meet their respective faculty member, if required. As per the schedule parent teacher meeting, Class counseling and Class Committee meeting are the measures in vogue to review the teaching learning process.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The College organizes interactive meetings with all its stakeholders in order to communicate its quality assurance policies, mechanisms and outcomes. The following are the stakeholders communications with the College

- * Management/Governing Council will interact with the employees once in six months in the form of meetings. The opinions and suggestions are drawn towards improving the qualitative aspects of the institution and guide them towards achieving excellence.

- * Parents - Teachers Meeting will be conducted regularly to update them regarding the quality initiatives taken up in the institution and to tell them about the progress of their wards.
- * Students, the College conducts Student Orientation Programme at the beginning of every semester to make them understand their role in achieving quality and to reinforce the culture of excellence in all aspects. Mentor meetings are conducted once in a month to interact with their mentees and allow them to express their concerns if any and motivate them in their academic and personal endeavors.
- * Placement Cell will interact regularly with the employers who recruit our students to know that if there is any requirement to impart additional skills so as to match with their performance in the organization
- * Alumni- Regular interaction with the alumni members is organized through meetings once in every six months to provide a platform for the alumni to share their experience.
- * And also College Communicates through its Stakeholders by
 1. Web site
 2. Prospectus and hand book
 3. Notice boards
 4. Bulletin boards
 5. Circulars
 6. Press releases
 7. College magazine

CRITERION VII

INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

Vardhaman College of Engineering and its Management are conscious and extremely serious about conservation of environment. We have taken various measures to impart and maintain our ambience green over our existence for past 14 years. We are committed and promote a clean and green environment nurturing creativity and innovation.

7.1.1 Does the College conduct a Green Audit of its campus and facilities?

The Management of the College strongly believes in maintaining high standards and to be role model, accordingly experts from various fields of environment protection (Horticulture, Natural resources, water harvesting, waste management, renewable energy etc) are regularly invited to assess and suggest additional measures to better existing standards.

Consumption of water and electricity is monitored regularly and measures to conserve are implemented. Use of natural light is maximized in design of the College buildings by the architects and the same is extended for future expansions. The class rooms are well illuminated and ventilated requiring minimal energy input for illumination and ventilation. Rain water harvesting is functional with a capacity to recharge as high as 2,00,000 Ltr of water during rains. Tree plantation is carried out regularly under NSS and other similar initiatives throughout the year.

No formal green audit has been conducted at the College so far.

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

- 7.1.2.1. Energy Conservation: Use of direct electricity for illumination and ventilation in class rooms is minimized for spacious, well ventilated and naturally illuminated class rooms. To reduce distribution losses, the College is divided into three major sections fed from individual distribution transformers, saving energy (otherwise required to feed longer distribution lines).
- 7.1.2.2. Use of Renewable energy: The management is planning to procure and commission a sub 100kW Solar power plant at the College.
- 7.1.2.3. Water Harvesting: The College has commissioned six water harvesting bores with 200000 ltr combined charging capacity and maintains them periodically. The water table is maintained satisfactorily in the vicinity of the College by this water harvesting measure.
- 7.1.2.4. Check dam construction: The topology of the area surrounding the College does not call for construction of check dams.
- 7.1.2.5. Efforts for carbon neutrality: The College environment is kept free of carbon by checking carbon emission machines like vehicles, inci-

nerators etc. away from the campus. No incineration is permitted in premises and parking of the vehicles is distanced from green areas.

- 7.1.2.6. Plantation: Plantation drive under NSS and other similar initiatives are regular in the campus. New plantation and upkeep of existing plants is carried out on regular basis. The greenery in the campus is a role model for Colleges in Hyderabad.
- 7.1.2.7. Hazardous waste management: This educational College does not produce any hazardous waste. The waste produced include paper, horticultural waste and left over eatables. Such wastes are disposed off through certified agencies. No incineration is permitted in campus.
- 7.1.2.8. e-Waste management: The e-waste including old PCs/ Printers/Mediums/Batteries etc are disposed through authorized agencies. College work on the principle of minimizing e-waste and promotes refill and reuse. Both side printing, reduced intensity prints/ draft prints to minimize ink usage etc are practiced as

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Besides taking due care of stipulated curricular activities (including co-curricular and extra-curricular) for the college, the management is conscious about the innovations and innovative approach to education with a view to generate a positive impact on its functioning. Here, reference is made to few of such initiatives, over past four years.

a) Preventive Health check-up for Students and Staff:

Premier and leading Medical Institutions of the state viz. SKIMS (and their associated hospital, JVC) located in the vicinity of the college have been invited and conduct regular health check-up for the Students, Faculty and the Staff and conduct various medical tests by a group of laboratory experts and document. The result of health check up revealed that the students are prone to Thyroid and have contracted bone related diseases. The preventive health check-up, so conducted, is an alarm for the society at large, to which the students of the college belong. As a follow-up step, the medical teams/experts visiting college organized a special programme in the institution creating awareness among the students thereby prescribing precautionary and remedial measures to be taken by the students.

This initiative taken by the College was highly appreciated by the stakeholders and eminent personalities of the twin cities. He also urged other institutions to follow the suit.

b) Career development initiatives:

Vardhaman College of Engineering is recognized for its effective contribution sustained success in campus placements of its students. The College has been playing a major role in eliminating the menace of unemployment of professionals from engineering and management streams. To help the students to get employed after graduation, placement efforts are intensified year on year devising innovative ap-

proaches. Campus interviews are arranged with great care and students are prepared with feedback based new approaches. Efforts are through innovative programmes and lectures by successful entrepreneurs to encourage and motivate our students to emerge as successful entrepreneurs. As part of carrier development different strategies ranging from career counseling, exposure to industry and training programmes etc have been organized periodically for the students. Important programmes conducted in collaboration with various State and National agencies during past few years are as follows:

1. Visit of teams from professional institutions:

Eastern College of Integrated Learning in Management (EILM) Kolkata, KC group of colleges, Chandigarh, and Fazlani Artieus Business School, Mumbai have been invited to the College who updated the student's knowledge regarding the latest professional courses available in India and abroad. Dr. V Krishna, Director IUCEE, US visited the College and interacted with faculty on subject of excellence in engineering education.

2. Visit of entrepreneurs:

Leading scholars and a very successful entrepreneur, Mr. Krishna Khanna former member of Planning Commission and adviser to Prime Minister on Vocational Education interacted with the students on varied issues, laying emphasis upon the need of introducing vocational education right from high school level. Identically, in order to expose our students to professional culture in advanced industrial nations, Dr. Owais Ahmad, General Special Visceral Emergency Surgeon from Germany has been invited. Dr. Ahmad delivered an extension lecture on Professionalism in Europe, achievements and further prospects for our students to pursue Higher Education in Germany.

3. Visit of NGOs:

A team of "Society for Human Resource Management (SHRM)" an International NGO, operating in more than 100 countries, visited our college and had interaction with students regarding the available job opportunities for Graduates in Multinational and top notch companies all across India. SHRM offered financial assistance to our students for undergoing training by the professionals from different companies as per their requirements. The SHRM shall be inviting CEO's and Directors to the campus who would be kick-starting the training programmes for the students in order to get them absorbed for different positions.

4. Visit of Media professionals:

A day long programme on job avenues in Broadcast Journalism was conducted in the College in which Mr. Tariq Ahmad Masoodi, Head Broadcast Journalism programme of India-Can NDTV Edu. Ltd, deliberated upon the topic. The conduct of these career related programmes provided an opportunity to the students to explore placement opportunities in disciplines allied to engineering or management, at state and national levels.

c) Delivery Improvement mechanism:

Students at the college are encouraged to provide feedback about their teachers and the mode of teaching. The feedback is collected at regular intervals, at the end of each session/semester. Students in all

disciplines are expected to provide such feedback for all the teachers and courses studied during the feedback period. Faculty is counseled by the head and/or principal regarding measures to improve subject understanding and/or teaching skills. Besides, informal interaction between the students and the Faculty pertaining to teaching quality is also encouraged.

IUCEE expert has been invited and made to interact with the faculty on matter relating to effective teaching/ delivery. It has been opined by the experts that the students at Vardhaman college of Engineering are in blessed with best faculty.

d) Improved access to library:

The library at Vardhaman College of Engineering today uses advance library software for various functions related to library. The library is equipped with a unique library access system permitting students access to web (browsing) as well as e-book and journals. Allied library functions are similarly computerized permitting efficient library operation and maintenance.

7.3 Best Practices

Financial support to students:

Realizing financial difficulties of bright students belonging to poor families and their failure to arrange and remit fees in time due to family background. A pool of fund titled “Poor Boy’s Fund” has created voluntarily by teaching & non teaching staff of the institution. Through this Nobel initiative the staff of Vardhaman College of Engineering has been able to reduce this specific dropout rate and enable the poorest of poor students to continue their studies. In addition the college supports poor and orphaned students by recommending and assuring their stay at near by “Orphanage centre” or reliable locations, located in close vicinity of the College.

Computer Access to under privileged:

Students belonging to SC/ST and other economically backward students at the College are offered free computer education. The aim of this practice is to enable under privileged students simple and free access to software and internet reinforcing their skills and efficiency on computers.

Laboratory to Field:

The Faculty at the college believes that the learning at the college shall be linked to direct field applications. Accordingly the laboratory experiments are designed keeping applications in mind. Field and industrial visits are arranged for students to bring in better understanding of the science. For instance, an engineering student is provided with opportunities to visit an industry or Power plant and participate in inter disciplinary study tours for the practical experience and exposure. It is expected that the students would nourish and develop such experiences during his carrier and make a societal impact. It may also support them to establish their own business and professional units thereby reducing their dependence on the State Exchequer for employment.

Other Best Practices:

Vardhaman College of Engineering is proud for its following practices:

- a. An annual Performance Appraisal Report (APR) is collected from individual faculty and is compared with the feedback received from the students during interface sessions, on Teacher's Day. In addition to these feedbacks, students and management participate in a direct interaction/feedback session and discuss pertaining to studies as well as environment. The key issues are recorded on prescribed format submitted by the student during this interaction.
- b. Feedback and participation of the stakeholders (parents and the society) is encouraged for the in decision making process for the improving the effectiveness of the institution.
- c. On-line feedback on syllabi coverage, lectures delivered and attended by the students is submitted by the Faculty daily utilizing an online application, software. Lapses on Student/ Faculty side are monitored by the Management to issue warning / correction notes.
- d. Faculty development is a continuous process at the college. Faculty is encouraged to attend various programmes like; refresher courses, workshops, orientation courses, seminars, conferences etc. Seminars and workshops are arranged at the college for a wider participation by the faculty. Keeping in view the above facts, National and International events are organized by the College, following events are slotted for this year:
 - a. International conference on Advance materials and
 - b. National seminar cum Workshop on PSCAD.
 - e. Remedial classes are conducted for weak students as a routine providing in-class revision of the subjects and re-discussion on perceived gaps with a view to improve overall performance.
 - f. The institution makes all efforts to display sensitivity to changing educational, social and market demands. Value based education is imparted to the students through different means. Lectures on subjects like; morality, truthfulness, uprightness of character etc are arranged regularly.
 - g. The college organizes an annual event and distributes honors and prizes in which the student's excellence in curricular co-curricular and extra-curricular activities is awarded by dignitaries. Eminent officers from the Higher Education Department, Civil administration and senior citizens are invited for such events.
 - h. All student and staff of the Institution are issued unique identification number and a card. Biometric identification of the individuals is registered and approved by administration. Access to department, laboratory, library etc is biometric enabled. Authentication and issue of assets like; books, critical laboratory equipment etc is linked to identification.

7.3.1 Elaborate on any two best practices as per the annexed format. Which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college?

1. Review of Delivery Mechanism /Instruction Patterns: The main objective of the institution is to transform the students into natured high caliber citizens. The objective is based on “refined and committed pattern of instructions” linked to carefully prepared and well designed curricula. The instruction set is reviewed annually incorporating feedback and state-of-the-art methods for effective delivery. Through this process the institution is able to improve the success rate irrespective of intake caliber.
2. Optimal mix: The College has been able to create equal niche for itself in the field academic, extra-curricular and sports fields by providing an optimal opportunity to its students in these field. Students are suggested and revise specific lecture notes and topics of great important by expert faculty and given full freedom to consult and clarify their doubts. The students are given free coaching free for popular games. Inter discipline and inter collegiate contest are arranged. A full size, day and night, all grass Cricket ground with flood lights is maintained by the college for use by the students. Experienced industry experts are employed by the college (identical to sport coaches) supporting implementation of concepts taught in the class. Real-time/ live projects are suggested and implemented by students under this initiative.

The Practices & the Evidence of the Success:

A satisfied and confident student performing excellently in graduate aptitude test (GATE), placement interviews and willing to consider being an entrepreneur is an obvious indicator of the best practices followed at the college.

Problems Encountered and Resources Required:

One of the most critical problems faced by the administration is related to attendance of the senior students. The pressure of competitive examination has always been the critical factor in this absenteeism. Our College, like similar other institutions has little or no control over this issue. The disciplinary impact of this forced absenteeism is crucial impacting carrier of the student/ loss of a year. It is suggested that national level competitions shall be planned / designed such that these event do not interfere with education.

Contact Details

Name of the Principal	:	Dr. J V R Ravindra
Name of the Institution	:	Vardhaman College of Engineering
City	:	Hyderabad
Pin Code	:	501 218
Phone (O)	:	9502653333
Fax	:	08413-253482
Website	:	www.vardhaman.org
E-mail	:	principal@vardhaman.org

DEPARTMENT PROFILES

PROFILE OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The fast changing technological scenario poses to the Institute a challenge of continuously updating its curriculum and faculty to be able to provide state-of-the-art education to the students. Changes, both major and subtle, have been made by the different departments of the Institute, to be better prepared for tomorrow. We, at DIRECTIONS, will bring to you a brief profile of one department in every issue, beginning with the Department of Computer Science and Engineering.

GENESIS AND GROWTH

The Department of Computer Science and Engineering was established in 1999 with an intake of 60 and increased to 120 in 2006, besides an additional 20% seats under lateral entry scheme. The department is also offering M. Tech program in Computer Science and Engineering from the year 2008, with an intake of 18 and increased to 36 in the year 2011 and Software Engineering from 2009, with an intake of 18.

The UG program has been accredited by the National Board of Accreditation (NBA) since 2009.

GOALS

- To use input from students, faculty, industry, and professional societies to improve the CSE curriculum.
- Intended to place teaching / tutorial material of each subject in the College web-site to enable the students to browse at their own pace of learning.
- To promote faculty creative and scholarly activities, and the integration of those activities with curriculum development.
- To provide up-to-date laboratory software and equipment in support of CSE program learning outcomes.
- To provide up-to-date curriculum and courses in support of CSE program learning outcomes.
- Near 100% placement to all eligible students of the department.
- **Enter into MOU with reputed industries and universities for research, knowledge sharing and student placements.**
- Achieve 100% pass percentage in End exams.

FACULTY AND STAFF

The department is headed by Prof. L. V. Narasimha Prasad, with vast Industrial and Teaching experience. The Department currently has 46 members, including three doctorates. Faculty research interest spans a wide range: from abstract theory to down-to-earth problems of immediate interest to industry. Current areas of research can be broadly classified into the following categories: Algorithms; AI and NLP; Graphics and CAD; Architecture, OS, Distributed Computing; Information Systems; Networks and Internet Technologies; Software Engineering and Languages; Theoretical Computer Science (Computational Complexity, Logic in CS). Teaching load is fairly low, typically a faculty member teaches two courses and possibly one tutorial in a year. Further, one of these two courses can be an elective as per the choice of the faculty member.

PHYSICAL FACILITIES

Class Rooms

The Department has twenty class rooms for Lectures / Tutorials. Each classroom size is in the range of 97 to 126 Sqm and all classrooms are echo free with good lighting and ventilation. All the class rooms are equipped with LCD projectors and Laptops.

Laboratories

The Department has a modern laboratory to serve the teaching and research needs of the students and faculty of the Department. The lab also includes special purpose mini-labs, such as the hardware lab and operating systems and networking lab. All faculty members and all Ph.D. students have sole access to a Pentium PC.

All systems are connected to the Departmental LAN which is a part of the Institute wide area network. The file servers provide a combination of Unix (NFS) and NT (NTFS) file services. Internet connectivity is provided by a 40 Mbps link leased from Sify and BSNL.

Department Library

The Department has its own Library in addition to the Central Library with 307 titles , 385 volumes, Audio Visual Multimedia CDs, Conference Proceedings, Magazines and IEEE Transactions.

Additional facilities like Central Computing Facility, e-Class room with multimedia facilities, Internet, Centrally air-conditioned Seminar Hall/Auditorium are also available.

MAJOR ACTIVITIES OF THE DEPARTMENT

ADVISORY COMMITTEE

An Advisory committee has been constituted with experienced persons drawn from Industrial and Academic circles to help and guide in the Academic and Industry related activities of the department. The members of the Committee are Dr. Ram Mohan Reddy, Professor of Computer Science and Engineering, Sri Venkateshwara University, Tirupati and Dr. S. Viswanadha Raju, Professor & Head of Computer Science and Engineering, JNTUH College of Engineering, Karimnagar. The advisory committee meets at least twice a year to discuss the academic matters which will improve the standards of the department.

Computer Science Technical Association

Computer Science Technical Association (CETA) is a students' body for conducting career developing, interpersonal and intrapersonal skills of students. It organizes Seminars, Quiz Programmes, Industrial Visits, Paper Contests, Group Discussions, Guest Lectures, Career Guidance, Games etc under its auspices.

The students are encouraged to present papers and to participate in seminars conducted in other engineering colleges. Industrial tours are arranged for students to obtain an exposure to industries.

Professional Society

IEEE Students' chapter and ISTE chapters are formed. A variety of academic activities are conducted under the auspices of these chapters. Two IEEE journals are subscribed, apart from subscribing to on-line digital access of all journals.

Alumni

Around 120 alumni of the Department are pursuing their higher education in India and abroad. More than 440 alumni are placed in popular organizations, both in public and multinational/ private companies.

Alumni Chapter is in existence. The department interacts with them and gets feedback with regard to academic, placements etc. matters. Their suggestions are taken into consideration in various developmental activities of the department.

The Department of Computer Science and Engineering has grabbed a University rank during 2009-2013. **Mr M. Phaneendra** of 2009-2013 batch was awarded the **University 4th rank** among all the affiliated engineering colleges of JNTUH, Hyderabad.

Placement

All the Alumni of the department are well settled in various professions. More than 860 alumni are placed in popular organizations, both in public and multinational/ private companies. About 250 alumni of the Department are placed through Training and Placement Centre of the College during the last three years.

A good number of Students of 2009-13 batch were selected in the Campus Interviews by leading companies like Tata Consultancy Services, Mahindra Satyam, Tech Mahindra, Robert Bosch, Syntel, Computer Sciences Corporation and Infotech Enterprise etc.

Seminars and Faculty Development Programs

The senior faculty members are involved in conduction of Faculty Development programs to improvise and to update to the present day needs of the society. National Level Seminars, workshops are conducted and faculty are also motivated to attend seminars in the area of Computer Science related fields.

Faculty Meetings

All important matters like formation of various academic / administrative committees, subject allocation, student affairs etc. are discussed in the departmental meetings of the CSE department and decisions are taken democratically. All the proceedings of each meeting are recorded.

Students Counseling

Around 15 students of each class are allocated to a teacher who keeps a close rapport with each student with regard to academic and personal matters. Important details of each student starting from 10+2 are maintained along with his/her Photo in a prescribed format till the student leaves the College. Later the records get transferred to the Alumni Section of the department.

Continuing Education

Many faculty members were encouraged for pursuing their M. Tech / Ph. D. at other universities, attending seminars/workshops/short term training programmes etc. The Department invites experts from industry and reputed institutions to deliver lectures on topics and future trends of science and technology.

Teaching – Learning Activity

The subject(s) handled by each staff member is (are) allocated based on their request 6 weeks before the commencement of a semester at a Faculty meeting. The staff members are required to prepare the lecture schedule, lecture notes, check list of “What to Learn”, assignments and prepare a Course File along with the syllabus.

Individual staff time-tables are prepared and supplied to the staff. Each staff member has to ensure that adequate prescribed Textbooks and reference books are available in the Library and also in the Departmental Library. Teachers are further required to keep upto date attendance registers and at the end of the every week, the attendance registers and lecture schedules are perused and signed by the Head of the department. Later they are countersigned by the Principal at the end of every month.

The department has been striving hard to inculcate conceptual and technical skills in students through a scientific teaching methodology based on lectures, case studies, seminars, group discussions, project works, assignments, quiz programs etc. These are well supported by audio-visual technologies such as Overhead projector, LCD projector etc.

The systematic and well planned approach to problem solving is emphasized in the classrooms, laboratories through the course projects and additional computer training beyond the scope of the syllabus.

Teaching aids such as LCD Projector, OHP, CD demo, equipment demonstrations, Models, Charts etc are regularly used to enhance better understanding.

Technical Visits

Technical Visits to Tata Consultancy Services, Hyderabad, Infosys Pvt Ltd, Hyderabad and Industrial Organizations etc are arranged.

Soft Skills

In the regular time-table, 5 periods are allocated for the development of Communication Skills – (i) Seminars, (ii) Group discussions, (iii) Personality Development, (iv) Extra-curricular Activities, (v) Ethics, (vi) Career Development etc. Expert Lectures from Specialists of the Industry and Academic Institutions are also arranged. Documentation is maintained for all events.

Evaluative Report of the Computer Science and Engineering

- Name of the department : **Computer Science and Engineering**
- Year of Establishment : **1999**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
B. Tech : a. Computer Science and Engineering	M. Tech: a. Computer Science and Engineering b. Software Engineering

- Names of Interdisciplinary courses and the departments/units involved: **NIL**
- Annual/ semester/choice based credit system (programme wise):

UG	PG
Semester Based	Semester Based

- Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.
- 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	6	4
Associate Professors	9	11
Assistant Professors	22	22

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

S No.	Name	Qualification	Designation	Specialization
1.	Prof. L V Narasimha Prasad	M. Tech	Professor	Data Mining, Algorithms, Computer Networks, Image Processing
2.	Dr. A. Rengarajan	M. Tech, Ph. D	Professor	Software Engineering, Networking
3.	Dr. Saravana Kumar	M. Tech, Ph. D	Professor	Cloud Computing, Wireless Security
4.	Dr. P. Govardhan	M. Tech, Ph. D	Professor	Image Processing
5.	Mr. H. Venkateshwara Reddy	M. Tech	Associate Professor	Data Mining, Information Security
6.	Mr. R. Madana Mohana	M. Tech	Associate Professor	Data Mining, Theory of computation
7.	Ms. M. L. Prashanthi	M. Tech	Associate Professor	Data Mining

S No.	Name	Qualification	Designation	Specialization
8.	Ms. P. Subhadra	M. Tech	Associate Professor	Data Mining
9.	Mr. P. Suresh Kumar	M. Tech	Associate Professor	Software Engineering
10.	Ms. G. Sunitha	M. Tech	Associate Professor	Neural Networks
11.	Mr. M. Sunil Kumar	M. Tech	Associate Professor	Fuzzy Sets
12.	Mr. D. Raman	M. Tech	Associate Professor	Computer Networks
13.	Mr. S. Venu Gopal	M. Tech	Associate Professor	Computer Networks
14.	Mr. C. Satya Kumar	M. Tech	Assistant Professor (Sr. Grade)	Wireless Computing
15.	Mr. V. Munisekhar	M. Tech	Assistant Professor (Sr. Grade)	Network Security
16.	Ms. T. Jagadeeshwari	M. Tech	Assistant Professor	Databases, Data Mining
17.	Mr. N. Ramyatulasi	M. Tech	Assistant Professor	Data Mining
18.	Ms Y. Indu	M. Tech	Assistant Professor	Image Processing
19.	Mr. S. K. Lokesh Naik	M. Tech	Assistant Professor	Mobile ad hoc Networks
20.	Ms. K. Uma Maheswari	M. Tech	Assistant Professor	Computer Networks
21.	Ms. V. Bhavya	M. Tech	Assistant Professor	Optimization Tech- niques
22.	Mr. A. Rahul	M. Tech	Assistant Professor	Cloud Computing
23.	Mr. N. Hanuman Reddy	M. Tech	Assistant Professor	Computer Security
24.	Ms. T. Anupama	M. Tech	Assistant Professor	Data Mining
25.	Ms. A. Annapurna	M. Tech	Assistant Professor	Computer Algorithms
26.	Mr. Ch. Sravan Kumar	M. Tech	Assistant Professor	Cloud Computing
27.	Ms. Sheena Mo- hammed	M. Tech	Assistant Professor	Data Mining
28.	Mr. Muralidar Mourya	M. Tech	Assistant Professor	Wireless Computing
29.	Mr. G. S. Prasada Reddy	M. Tech	Assistant Professor	Cloud Computing
30.	Ms. N. Harini	M. Tech	Assistant Professor	Data Mining
31.	Mr. B. Shashi Prasad	M. Tech	Assistant Professor	Data mining, Image Processing
32.	Ms. P. Neelima	M. Tech	Assistant Professor	Software Engineering
33.	Ms. Priyanka Gupta	M. Tech	Assistant Professor	Computer Security
34.	Ms. Madhuri	M. Tech	Assistant Professor	Networking
35.	Mr. P. Krishnaiah	M. Tech	Assistant Professor	Cloud Computing

11. List of senior visiting faculty:

- Dr. A. Ram Mohan Reddy, Professor, Department of CSE, SV University, Tirupati.
- Dr. S. Viswanadha Raju, Professor & HOD, Department of CSE, JNTUH College of Engineering, Nachupally, Karimnagar.
- Dr. K. G. Srinivas, Professor, Department of CSE, MS Ramaiah College of Technology, Bangalore.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : **No temporary faculties are in rolls**

13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Stu- dent
B. Tech	37+ 07 from H&S (44 re- quired)	660	1:15
M. Tech – CSE	6	72	1:12
M. Tech – SE	3	36	1:12

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

	Sanctioned	Filled
Academic Support Staff	8	8
Administrative Staff	2	2

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

Qualification	No. of faculty
PG (ME / M. Tech)	43
Ph. D	3

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

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

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

19. Publications:

* a) Publication per faculty

Prof. L V Narasimha Prasad	
1.	Narasimha Prasad L V, Prudhvi Kumar Reddy K, Naidu M M, "Cloud Dynamics Using Fall Velocity and Nucleation Geometry of Clouds", International Conference of Chemical, Biological and Environmental Engineering, Hong Kong, Vol 49, pp. 85-94, 2012.
2.	Narasimha Prasad L V, Prudhvi Kumar Reddy K, Naidu M M, "An Approach to Prediction of Precipitation Using Gini Index in SLIQ Decision Tree", 4th IEEE International Conference on Intelligent Systems, Modeling & Simulation, Bangkok, pp.56-60, 2013.
3.	Narasimha Prasad L V, Prudhvi Kumar Reddy K, Naidu M M, "An Efficient Decision Tree Classifier to Predict Precipitation Using Gain" International Journal of Soft Computing and Software Engineering, San Francisco, USA, 2013.
4.	Narasimha Prasad L V, Prudhvi Kumar Reddy K, Naidu M M, " A Novel Decision Tree Approach for the Prediction of Precipitation Using Entropy in SLIQ" 15th IEEE International Conference on Modeling and Simulation, Cambridge, UK, pp. 208-217, 2013.
5.	JVR Ravindra, Pandurangaiah Yagateela, Narasimha Prasad L V, "A Novel Analytical Model for Analysis of Delay and Crosstalk in Non Linear", 15th IEEE International Conference on Modeling and Simulation, Cambridge, UK, pp. 798-802, 2013.
6.	Narasimha Prasad L V, Krishna Rao Patro E, Naidu M M, "A Gini Index Based Elegant Decision Tree Classifier to Predict Precipitation", 7 th IEEE Asia international conference on Mathematical/Analytical Modelling and Computer Simulation, Hong Kong.
7.	Narasimha Prasad L V, Kishor Kumar Reddy C, Naidu M M, "An Entropy Based Elegant Decision Tree Classifier to Predict Precipitation", IEEE International Conference on Artificial Intelligence , Tunisia.
8.	Narasimha Prasad L V, Naidu M M, "Gain Ratio as Attribute Selection Measure in Elegant Decision Tree to Predict Precipitation", IEEE 8 th EUROSIM Congress on Modelling and Simulation, U. K, 2013.
9.	Anisha Ravinder , Prudhvi Kumar Reddy K, Narasimha Prasad L V, " Detection of Wave-

lengths for Hail Identification using Satellite Imagery of Clouds", 5th IEEE International Conference on Computational Intelligence, Communication Systems and Networks, Spain, pp. 205-211, 2013.
10. Naveen Dondapati , Prudhvi Kumar Reddy K, Narasimha Prasad L V, " Estimating Acidity in Precipitation using Sulphur dioxide Satellite Imagery", 1st IEEE International Conference on Intelligent Systems and Image Processing, Japan, 2013. 11. RajKumar G, Narasimha Prasad L V, Padmaja B, "Monitoring and Extracting Abnormalities in Land Surface Temperature Images for Automatically Identification of Forest Fires", 1st IEEE International Conference on Intelligent Systems and Image Processing, Japan, 2013. 12. Shankar Murthy P, Narasimha Prasad L V, Kishor Kumar Reddy C, "Analysis of Magnitude for Earthquake Detection using Primary Waves and Secondary Waves", IEEE International Conference on Human Computer Interactions, Chennai, India, 2013. 13. Narasimha Prasad L V, Prudhvi Kumar Reddy K , Naveen Dondapati , Kishor Kumar Reddy C, " Estimating Acidity in Precipitation using Sulphur dioxide Satellite Imagery", World Scientific Journal on Pattern recognition and Artificial Intelligence, 2013. 14. Narasimha Prasad L V, Prudhvi Kumar Reddy K , Anisha Ravinder , Kishor Kumar Reddy C, "Detection of Wavelengths for Hail Identification using Satellite Imagery of Clouds", World Scientific Journal on Pattern recognition and Artificial Intelligence, 2013.
Dr. P. Govardhan 1. Govardhan P, Sreenadh S, Arunachalam P V B, "Fluid flow between two permeable beds", Proc. Nat. Acad. Sci. India, 61 (A) I 93, 1991. 2. A Anusha, P Govardhan, "Alpha Rooting for Image Deblurring", INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 2, Feb 2013. 3. Ch Priyanka, P Govardhan, "Customized Concept Learning in Image Search from Photo Sharing Websites", INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 2, Feb 2013. 4. N Shravani Reddy, P Govardhan, "Content-Based Trusting in Social Networking Systems", INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 2, Feb 2013. 5. Ch Divya, P Govardhan, "Optimal Pricing for Mobile Video Streaming in 3G Wireless Packet Networks", PARIPEX - INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 2, Feb 2013
Mr. H. Venkateswara Reddy 1. H.Venkateswara Reddy, S.Viswanadha Raju et al." A Threshold for clustering Concept – Drifting Categorical Data", ELSEVIER, Procedia Engineering, 28-30 December 2011. 2. H.Venkateswara Reddy, S.Viswanadha Raju et al." Our-NIR: Node Importance Representative for Clustering of Categorical Data", International Journal of Computer Science and Technology (IJCST) Volume 2, Issue 2, June 2011, pp. 80-82.(ISSN : 2229-4333(print) ISSN : 0976-8491(online)) 3. H.Venkateswara Reddy, S.Viswanadha Raju et al." POur-NIR: Modified Node Importance Representative for Clustering of Categorical Data", International Journal of Computer Science and Information Security (IJSIS) Volume 9, No. 4, April 2011, pp.146-150. (ISSN 1947-5500). 4. H.Venkateswara Reddy, S.Viswanadha Raju et al." A Threshold for clustering Concept – Drifting Categorical Data", IEEE 3 rd International Conference on Machine Learning and Computing (ICMLC), Volume 3, Feb-2011, pp. 383-387.ISBN: 978-1-4244-9253. 5. H.Venkateswara Reddy, S.Viswanadha Raju et al. "Clustering of Concept Drift Categorical Data using Our-IR Method", International Journal of Computer Science and Electrical Engineering (IJCEE), Volume. 3, No. 6, December 2011, PP.784-788(ISSN: 2229-56331(print) ISSN: 0975-3397(online)). 6. H.Venkateswara Reddy, S.Viswanadha Raju et al. "Comparing N-Node Set Importance Representative results with Node Importance Representative results for Categorical Clustering: An Exploratory Study", International Journal of Computer Engineering Science (IJCES), Volume 2, Issue 8, August-2012, PP.1-15(ISSN: 2250-3439). 7. H.Venkateswara Reddy, S.Viswanadha Raju. "A Study in Employing Rough Set Based ap-

proach for Clustering on Categorical Time-Evolving Data”, IOSR Journal of Computer Engineering (IOSRJCE), Volume 3, Issue 5 (July-Aug. 2012), PP 44-51 (ISSN:2278-0661) DOI number 10.9790/0661-0354451. 8. H.Venkateswara Reddy, S.Viswanadha Raju. “N-Nodeset Importance Representative based Outlier Detection for Categorical Data”, International Journal of Engineering and Computer Science (IJECS), Volume 2, Issue 1 Jan 2013, PP 259-264 (ISSN: 2319-7242). 9. H.Venkateswara Reddy, B.SureshKumar. “Automated Video Surveillance System with SMS Alert”, International Journal of Engineering And Computer Science (IJECS), Volume 1, Issue 3 Dec 2012, PP 164- 167 (ISSN: 2319-7242). 10. H.Venkateswara Reddy, Venkat Reddy K.” On and Off line Time Based Approach to Enhance Web Search Criteria” Proceeding of International Conference on Futuristic of Computer Science Engineering & Information Technology – ICCT2012. 11. H.Venkateswara Reddy, S.Viswanadha Raju et.al. “An Emerge approach in Inter Cluster Similarity For Quality Clusters”, International Journal of Engineering and Technology (IJET), Volume 5, No 2 April-May 2013, PP 1843-1852 (e-ISSN: 0975-4024, p-ISSN: 2319-8613). 12. H.Venkateswara Reddy, S.Viswanadha Raju et.al. “An Approach for Data labeling and Concept-Drift Detection based on Entropy Model in Rough Sets for Clustering Categorical Data”, Journal of Computer Science and Technology(JCST), Volume 28, Issue 3 April 2013, PP 259-264 (ISSN: 1000-9000 (print version),ISSN: 1860-4749 (electronic version))(Communicated). 13. H.Venkateswara Reddy, S.Viswanadha Raju et.al. “Data labeling method based on cluster Purity Using Relative Rough Entropy for Categorical Data Clustering”, IEEE Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), Mysore ,India, August 2013. 14. H.Venkateswara Reddy, Chinni JayaChandra. “ Iris Recognition based on Pupil using Canny edge detection and K-Means Algorithm”, International Journal of Engineering And Computer Science (IJECS), Volume 2, Issue 1 Jan 2013, PP 221-225 (ISSN: 2319-7242). 15. H.Venkateswara Reddy, S.Viswanadha Raju. “Outlier Test For Categorical Data By Using Hypergraph Deviation Comparison”, International Journal of Engineering and Computer Science (IJECS), Volume 2, Issue 5 May 2013, PP 1688-1691 (ISSN: 2319-7242). 16. H.Venkateswara Reddy, B.SureshKumar et.al. “Automated Surveillance System and Data Communication “, IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 12, Issue 2 (May. - Jun. 2013), PP 31-38. 17. Chinni. Jayachandra H. Venkateswara Reddy B. Suresh Kumar B. Sruthi,” A Robust Approach in Iris Recognition for Person Authentication” IOSR Journal of Computer Engineering (IOSR-JCE) e ISSN: 2278-0661, p- ISSN: 2278-8727Volume 12, Issue 3 (Jul. - Aug. 2013), PP 59-67.	Mr. R. Madanamohana 1. R. Madana Mohana, A. Rama Mohan Reddy and K. Prudvi Kumar Reddy, Fish Stock Prediction Using Data Mining and Image Processing Techniques, International Conference on Recent Trends in Computing and communication Engineering- RTCCE, 20 - 21 April, 2013, Hamirpur, India. 2. Madana Mohana R, Suresh K, Rama Mohan Reddy A, Subramanyam A, Improved FCM Algorithm for Clustering on Web Usage Mining, IEEE Conference - Computer and Management (CAMAN), 19-21 May 2011, China @ISBN 978-1-4244-9282-4. 3. R. Madana Mohana, K. Suresh and A. Rama Mohan Reddy, Improved FCM algorithm for Clustering on Web Usage Mining, International Journal of Computer Science Issues(IJCSI), Vol. 8, Issue 1, January 2011, China @ISSN 1694-0814. 4. R. Madana Mohana, K. Suresh and A. Rama Mohan Reddy, Improved FCM algorithm for Clustering the IRIS data, International Journal on Computer Science and Engineering (IJCSE), Vol. 3, Issue 1, January 2011, Chennai, India @ISSN 0975-3397 5. R. Madana Mohana, K. Suresh and A. Rama Mohan Reddy, Crime Analysis using Data Mining , International Journal of Electrical, Electronics & Computing Technology(IJEECT),
--	---

Vol.1, Issue.2, January-April, 2011 , Hyderabad, India @ISSN 2229-3027. 6. R. Madana Mohana, K. Suresh, Data Mining Application: Decision Tress for crime analysis ,National Conference on Trends in Information Technology, (NTIT'08), Sree Chitra Tirumala College of Engineering, Thiruvananthapuram, 20 -21 November, 2008. 7. R. Madana Mohana, K. Suresh, A. Rama Mohan Reddy, Crime Analysis using Data Mining, National Conference on Informatics, (NCI-2008), Narayana Engineering College, Nellore, 27 December 2008
Ms. M. L. Prashanthi 1. M L Prasanthi, A Krishna Chaitanya, N Sambasiva Rao, "Detection of Outliers and Change points in a Data Stream of Bio Informatics Data ", International Journal of Engineering Research & Technology , Vol 1, Issue 6, August - 2012. 2. M L Prasanthi, Devi Srinivas, "Implementation Of Knowledge Based Authentication System Using Persuasive Cued Click Point", International Journal Of Mathematics And Computer Research, pp.15-19, 1 Feb 2013. 3. M L Prasanthi, B Sruthi Patil, "Modern Approaches for Detecting Data leakage Problems", International Journal Of Engineering And Computer Science, Vol 2, Issue 2, pp 395-399 Feb 2013. 4. M L Prasanthi, E Sateesh, "Classic Outlier Detection from Web Clusters using Disimilarity Measure", PARIPEX - INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 3, pp. 98-102, March 2013.
Ms. P. Subhadra 1. P Subhadra, A Sai Kumar, " Enhancing and Constructing Two Way Matrix Embedding for Efficient Embedding", International Journal Of Mathematics and Computer Research, Vol 1, Issue 2, pp.44-49, March 2013, ISSN:2320-7167. 2. P Subhadra, A Sai Kumar, "Building network Packet Buffers in High Bandwidth Switches and Routers", International Journal Of Mathematics and Computer Research, Vol 2, Issue 3 March 2013, ISSN 2278-733X. 3. Srinivas Ch, P Subhadra, "Assured digital signature for data trustworthiness Routers", International Journal of Computer Science and Management Research, Vol 2, Issue 3, March 2013, ISSN 2278-733X. 4. A Sai Kumar, P Subhadra, "User Authentication to Provide Security against Online Guessing Attacks", International Journal of Computer Science and Management Research, Vol 2, Issue 2, February 2013, ISSN - 2250-1991.
Mr. D. Raman 1. D Raman, M. Shiva Shankar Reddy K, Y. Srinivas Reddy, "Risk Assessment for Identifying Intrusion Detection using DS-evidence Theory in Manet", International Journal of Computers Electrical and Advanced Communications Engineering Vol.1 (3) @ ISSN: 2250-3129 2012 2. D Raman ,BojjaVamshi Krishna "Ensuring Security Services for Data Storing and Data Sharing in Cloud Computing", International Journal of Science and Research (IJSR), ISSN: 2319-7064, Volume 2 Issue 2, February 2013. 3. D Raman,V Chandra Sekhar, "Monitoring the load due to effect of Packet droppers and Modifiers" in International Journal of Science and Research " International Journal of Science and Research (IJSR), ISSN: 2319-7064, Volume 2 Issue 2, February 2013 4. D Raman, Y Srinivas Reddy, "A Square Root Topologys To Find Unstructured Peer-To-Peer Networks" International Journal of Computer Science and Management Research (IJCSMR), Vol 2 Issue 3 ISSN : 2278-733XMarch 2013. 5. V Chandra Sekhar, D Raman," Effectiveness In Packet Data Transmission In wireless networks: A Foreword Approach" International Journal of Computers Electrical and Advanced Communications Engineering, Vol1, Issue 3, @ ISSN: 2250-3129, June 2013
Mr. S. Venu Gopal 1. S. Venu Gopal,Dr. N. Sambasiva Rao,S. K. Lokesh Naik Ms. T. Jagadeeswari,"Avoiding Loss of Data While Sharing in Structured Peer to Peer Network Overlay Modeling",Indian jour-

nal of research: Paripex, Vol:3 Issue:4, May 2013. 2. S Venu Gopal "Peer to Peer Network Modeling using UML Concepts", International Conference of Chemical, Biological and Environmental Engineering, September 2012 Issue [Volume 9, Issue 5]: Paper IJCSI-2012-9-5-4009.[Communicated] 3. S Venu Gopal "UML Based Approach to Tea Coffee Machine", 39th ISTE Annual Convocation and National Conference, IJSER [Volume 3, Issue 6], June-2012.[Communicated] 4. S Venu Gopal "E-Education and Content Development", 39th ISTE Annual Convocation and National Conference, November, 8th - 2008.[Communicated]
Mr. C. Satya Kumar 1. Apparao R, C Satya Kumar, " Collaborating Services of Dynamic Authentication in Service-Oriented Architecture -Based Business Processes ", International Journal of Advanced Research in Computer Science, Vol 3, Issue 4, July- August 2012.
Mr. V. Munisekhar 1. V Muni Sekhar, "Managing Functional & Nonfunctional Requirements for Collaborative Clouds", IEEE ConSec2009, Bangalore, India, December 2009. 2. V Muni Sekhar "Guaranteed QoS in Cloud Ready Application", NCSOFT'2010, Cochin, India, May 2010. 3. V Padmanabha Reddy, V Muni Sekhar "Trust – Based Routing Protocol for MANET", NCETC&SIT'2010, Hyderabad, India, August 2010. 4. N Sambasiva Rao, V Padmanabha Reddy, V Muni Sekhar, "Education Reform System: A Virtualized Grid based Web for E – Learning", International Journal of Electrical, Electronics and Computing Technology, Vol I (II), Jan 2011.
Ms. T. Jagadeeshwari 1. S. Venu Gopal, Dr. N. Sambasiva Rao, S. K. Lokesh Naik Ms. T. Jagadeeswari, "Avoiding Loss of Data While Sharing in Structured Peer to Peer Network Overlay Modeling", Indian journal of research: Paripex, Vol:3 Issue:4, May 2013.
Mr. N. Ramyatulasi 1. N RamyaTulasi, Y Indu, "Video Frame Retrieval Using Effective Query Processing", International Journal of Research in Computer and Communication Technology (IJRCCT), ISSN 2278-5841, Vol 1, Issue 7, 2012.
Ms Y. Indu 1. Indu, N Ramya Tulasi, Y "Video Frame Retrieval Using Effective Query Processing", International Journal of Research in Computer and Communication technology, ISSN 2278-5841, Vol 1, Issue 7, December 2012. 2. Y Indu, T Uma Maheshwari, " Fractal Based Indexing of Homogenous Data Streams", International Journal of Computer Technology & Research, ISSN 2319-8194, Vol 1, Issue 2, November 2012.
Mr. S. K. Lokesh Naik 1. S. Venu Gopal, Dr. N. Sambasiva Rao, S. K. Lokesh Naik Ms. T. Jagadeeswari, "Avoiding Loss of Data While Sharing in Structured Peer to Peer Network Overlay Modeling", Indian journal of research: Paripex, Vol:3 Issue:4, May 2013. 2. SK Lokesh Naik, B Suresh kumar, C Kishor Kumar Reddy, SK Prashanth, "Cloud Specific Issues and Vulnerabilities Solutions", International Conference on Computer Science and Information Technology, Tirupathi, 2012, ISBN: 978-93-81693-86-5. 3. SK Lokesh Naik, C Kishor Kumar Reddy, SK Prashanth, B Suresh kumar, "Cloud Specific Issues and Vulnerabilities Solutions", International Journal of Scientific & Engineering Research, Vol 3, Issue 7, ISSN 2229- 5518, July-2012. 4. SK Lokesh Naik, "Landmark Routing for Large scale Mobile Ad hoc Networks", A National level Technical Conference, Sree Nidhi College of Science and Technology, Hyderabad, 2009.

Ms. K. Uma Maheswari 1. Uma Maheswari V, Indu Y, "Fractal Based Indexing of Homogenous Data Streams", International Journal of Computer Technology and Research, ISSN 2319-8184, Vol 1 Issue 2, 2012. 2. V Uma Maheswari, S Anitha Reddy, "Mutual Authentication-robust user Authentication for Online Services", International Journal of Computer Science and Technology, ISSN 0976-8491, Vol 3, Issue 4, 2012. 3. V Uma Maheswari, S Anitha Reddy, "Reliable Computing Under Resources Constraints Policy" International Journal of Computer Science and Technology, ISSN 0976-8491, Vol 3, Issue 4, 2012.
Mr. A. Rahul 1. A Rahul, "VoIP Flood Detection and Jacobson and Hellinger distance Algorithms", International Journal on communication and computer, USA, David publishing company, Vol 8, Issue 5, 2013. 2. A Rahul, "Detection of Intruders and Flooding in VoIP using IDS, Jacobson Fast and Hellinger Distance Algorithms", International journal on Organization of Scientific Research on Computer Engineering, Vol 2, Issue 2, ISSN: 2278-0661.
Ms. T. Anupama 1. Tammi, N SambaSiva Rao, Syed Arfath Ahmed, Anupma, "Classification – Analysis of Anonymization for Privacy Data", International Journal of Computational Intelligence and Information Security, Vol 2, Issue 10, October 2011.
Ms. Sheena Mohammed 1. Sheena Mohammed, Afrin Md, "Parallel Anchors Hierarchy to Document Signatures Using Sparse Spatial Selection", International Journal Of Advanced Research In Computer Science, Vol 3, Issue 5, Sept-Oct 2012, ISSN No. 0976-5697.
Mr. Muralidar Mourya 1. Murlidher Mourya, Krishna Rao P, "Selecting Attribute to Stand Out in the Competitive world", International Journal of Scientific and Research Publications, Vol 3, March 2013, ISSN 2250-3153.
Mr. G. S. Prasada Reddy 1. Presented paper "Unsupervised Clustering method for image retrieval" in a 3-day National Conference on Recent Advances in Soft Computing and Knowledge Discovery (SCKD 2k12, 19-21 Jan, 2012) at SRI VENKATESWARA UNIVERSITY, Tirupati. 2. Presented paper "A study on optimization of cost through effective use of resources in cloud computing" at 3rd National Conference on Current Trends in Advanced Computing (CTAC'12) organized by Kristu Jayanti College of Management and Technology, Bangalore. 3. Presented paper "Analysis and comparison of formulation Techniques for fault Tolerance in sensor networks" in a National Conference on Advances in Wireless Communications (NCAWC-2012) by Vasavi College of Engineering, Hyderabad. 4. Presented paper "Extraction of Communication Patterns Through mining of sub graphs" in a 3-day National Conference (NITC 2k12) at SRI VENKATESWARA UNIVERSITY, Tirupati. 5. Presented paper "A cloud Framework for monitoring people health" in a national conference held September, 2013 at PADMAVATHI UNIVERSITY, Tirupati.
Ms. Hina Wadhawan 1. Hina Wadhawan, Sandeep Kang, Sahil Seth, "Implementation And Comparison of Black Hole Attack And Gray Hole Attack in Wireless Mesh Networks", International Journal of Advanced Research in Computer Science, Vol 2, No.4, July-Aug 2011, ISSN No. 0976-5697. 2. Hina Wadhawan, Sandeep Kang, Rajwinder Kaur, "Performance Evaluation of Black Hole Attack and Gray Hole Attack in Wireless Mesh Networks", Journal of Current Computer Science and Technology, Vol 1, Issue 6, 2011, 280-284.
Mr. C. Kishore Kumar Reddy 1. Narasimha Prasad L V, C. Kishor Kumar Reddy, M M Naidu, "An Entropy Based Elegant

Decision Tree Classifier to Predict Precipitation, IEEE ICAI conference, 2013. [In Press]. 2. C. Kishor Kumar Reddy, SK. Lokesh, SK. Prasanth, B. Suresh Kumar, "Cloud Specific Issues and Vulnerabilities Solutions", IJSER, Vol. 3, ISSN: 2229-5518, pp. 1-6, 2012. 3. C. Kishor Kumar Reddy, M. Venkateswarlu, P. R Anisha, "Usage of Incremental Provider aided Distance Information System to Improve user Assignment from a Performance Perspective for Content Delivery Networks", IJSER, Vol. 3,ISSN: 2229-5518, pp. 1-6, 2012. 4. C. Kishor Kumar Reddy, P. R Anisha, K. Srinivasulu Reddy, S. Surender Reddy, "Third party Data Protection Applied to Cloud and XACML Implementation in the Hadoop Environment with SPARQL", IOSR-JCE, Vol. 2, ISSN: 2228-0661, pp. 39-46, 2012. 5. C. Kishor Kumar Reddy, P. R Anisha, Vishnu Vardhan Reddy, S. Surender Reddy, "Controlling of Data in the Cloud", IJIRD, Vol. 2, ISSN: 2278-0211, pp.431-445, 2012. 6. C. Kishor Kumar Reddy, P. Shankar Murthy, N. Shravani, S. Venkat Gopal Rao, "Distributed Systems and economics Related to pricing in cloud computing", International Journal of Advanced Computer Theory and Engineering", ISSN: 2319-2526, pp. 47-53, 2012. 7. C. Kishor Kumar Reddy, P. R Anisha, B. Mounika, V. Tejaswini "Resolving Cloud Application Migration Issues", IJEI, Vol. 1, Issue 2, ISSN: 2229-5518, pp. 1-7, 2012. 8. C. Kishor Kumar Reddy, SK. Lokesh, SK. Prasanth, B. Suresh Kumar, "Cloud Specific Issues and Vulnerabilities Solutions", ICCSIT, pp. 69-75, 2012. 9. C. Kishor Kumar Reddy, M. Venkateswarlu, P. R Anisha, "To Improve user Assignment from a Performance Perspective for Content Delivery Networks", International Conference on Recent Trend in Computer Science, 2012. 10. C. Kishor Kumar Reddy, P. R Anisha, K. Srinivasulu Reddy, E. Krishna Rao Patro, " Causes for data corruption and to minimise the computation overhead of the cloud storage server through hashing concept, ICRDET, ISBN: 978-93-82208-06-08, pp. 24-30, 2012. 11. C. Kishor Kumar Reddy, P. Shankar Murthy, CH. Srikanth, "Maximizing profit cloud service provider through Dynamic pricing system", ICRDET, ISBN: 978-93-82208-06-08, pp. 9-14, 2012. 12. C.Kishor Kumar Reddy, Angel Mary, Sai Kumar, G.B Raj Kumar, "A survey on multi tenancy in Cloud Computing", ICACTE, 2012. 13. C.Kishor Kumar Reddy, P.R Anisha, "Federated clouds: an era to increase scalability and reliability", ICACTE, 2012. 14. C.Kishor Kumar Reddy, P.R Anisha, "Securing Data during Cloud Hoping", ICACTE, 2012.	Mr. B. Suresh Kumar 1. B. Suresh Kumar H. Venkateswara Reddy C. Jayachandra," AUTOMATED SURVEILLANCE SYSTEM AND DATA COMMUNICATION", IOSR Journal of Computer Engineering (IOSRJCE).ISSN: 2278-0661 Volume 12, Issue 3 (June-July. 2013) 2. H. Venkateswara Reddy S. Viswanadha Raju B. Suresh Kumar C. Jayachandra," An Emerge Approach in Inter Cluster Similarity for Quality Clusters", International Journal of Engineering and Technology (IJET),ISSN : 0975-4024, Volume 5 No 2 Apr-May 2013,Page No.1843-1852. 3. H. Venkateswara Reddy S. Viswanadha Raju B. Suresh Kumar C. Jayachandra," Outlier Test For Categorical Data By Using Hypergraph Deviation Comparison", International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 2 Issue 5 May, 2013 Page No. 1688-1691. 4. H.Venkateswara Reddy, B.Suresh Kumar, "Automated Video Surveillance System With Sms Alert", International Journal Of Engineering And Computer Science, ISSN:2319-7242,Volume1 Issue 3 Dec 2012 Page No. 164-167. 5. A.Rahul, S.K.Prashanth, B.Suresh Kumar, G.Arun "Detection of Intruders and Flooding In Voip Using IDS, Jacobson Fast And Hellinger Distance Algorithms", IOSR Journal of Computer Engineering (IOSRJCE).ISSN: 2278-0661 Volume 2, Issue 2 (July-Aug. 2012), PP 30-36.DOI: IOSR -- 10.9790/0661-0223036. 6. B.Suresh Kumar, C.Kishor Kumar Reddy, Lokesh Naik & S.K. Prasanth" Cloud Specific Issues and Vulnerabilities Solutions" International Journal of Scientific & Engineering Research
---	--

Volume 3, Issue 7, July-2012 1 ISSN 2229-5518.Page.No.1-6.	
7.	A.Rahul, B.Suresh Kumar "Detection of Intruders & Flooding In VoIP Using IDS, Jacobson Fast and Hellinger Distribution Algorithm" International conference ,18 August, 2012 organized by College of Engineering & Management In collaboration With IEEE Calcutta Section in Kolkata.
8.	B.Suresh Kumar, C.Kishor Kumar Reddy, Lokesh Naik & S.K. Prasanth" Cloud Specific Issues and Vulnerabilities Solutions" International conference ,June, 2012 Organized by ICCSIT Bhubaneswar at Tirupati.
Ms. P. Tanuja	
1.	P Tanuja Manjira Devi, K Subashini, "Middle Layer Based Socially Enhanced Virtual Communities", International Journal of Computer Science and Technology, Vol 3, issue 2, April-June, 2012.
Ms. T. Neha	
1.	T Neha, " A Novel Approach to Data Integrity Proofs in Cloud Storage", IJARCSSE, 25th - 30th October, 2012.
Mr. S. Nageswara Rao	
1.	S.NageswaraRao and Dr.C.Shoba Bindu, " Finding multiple optimal paths in Ad Hoc Networks Based on QOS metrics: Maximum Bandwidth and Minimum Delay", International Journal of Computer Applications(IJCA), vol. 23, pp. 35-39, June-2011.
2.	S.NageswaraRao, "Optimized cost model for k-NN queries in r*-trees over random distribution", International journal on Advanced Material Research vols 403-408, pp 3315-3321, Scientific.net , Switzerland, Feb-2011.
3.	S.NageswaraRao and M.Karunakar " Portfolio selection in multipath Routing for Traffic Allocation " International Conference on Computer Science and Information Technology(ICCISIT-12),Vol III, pp126-130,2012.
4.	S.NageswaraRao and,N.Anuradha " Privacy Preserving Methods to Confidential Data 3 Bases with security", International Conference on Computer Research and Development (ICCRD 2012) pp67-71, 2012.
5.	S.NageswaraRao and S.Satyendra Kumar "A Decentralized resale Market Model for P2P Content Distributed System",International Conference on recent Development trends on computer applications, pp:128-131, 2012.
6.	S. NageswaraRao and Swaradvi, "Secured Cloud Storage with policy based and File Assured Deletion ", National conference on Advanced Technologies in Computer Science, pp 200-203, May-2013.

- * Number of papers published in peer reviewed journals (national / international) by faculty and students **18**
- * 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.) **20**
- * Books with ISBN/ISSN numbers with details of publishers

1. Prof L V Narasimha Prasad Books Published: 1. Prof. L V Narasimha Prasad, "Recruitment and Selection", Students Helpline Publishing House (P) Ltd., Hyderabad, ISBN-13 No: 978-93-80831-16-9. 2. Prof. L V Narasimha Prasad, "Computer Programming in C", Spectrum Techno Press, Bangalore, ISBN-13 No: 978-81-927086-0-6. 3. Prof. L V Narasimha Prasad & Prof M M Naidu "Design and Analysis of Algorithms", Spectrum Techno Press, Bangalore, and ISBN-13 No: 978-81-927086-4-5. 4. Prof. L V Narasimha Prasad "Data Structures through C", Spectrum Techno Press, Bangalore, and ISBN-13 No: 978-81-927086-1-4.
2. R. Madana Mohana, Associate Professor Books Published: 1. R Madana Mohana & Prof S Viswanadha Raju, "Computational Techniques", Spectrum Techno Press, Bangalore, ISBN-13 No: 978-81-927086-2-1. 2. R Madana Mohana & E R Aruna, "Discrete Mathematical Structures", Spectrum Techno Press, Bangalore, ISBN-13 No: 978-81-927086-3-8. 3. R Madana Mohana & Prof A Rama Mohan Reddy, "Information Technology for Managers", Students Helpline Publishing House (P) Ltd., Hyderabad, ISBN-13, No: 978-93-80831-39-8.

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

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

Mr. H. Venkateswara Reddy, Associate Professor is Editorial Review Board member of "International Journal of Engineering (IJE)

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme:
100 % of the students have done their projects in-house
- 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:

Faculty: NIL

Students:

2012 – 2013				
S No	Event	Conducted by	Position	Name of Student
1	Hack track – Tech defense Entrepreneurship Development Cell	BITS Pilani, Hyderabad	Certified Ethical Hacking expert	S.Chiranjee Rahul Kumar
2	Hack track – Tech defense Entrepreneurship Development Cell	BITS Pilani, Hyderabad	Certified Ethical Hacking expert	Sai Nath
3	Paper presentation Gnosis-12	VCE, Hyderabad	First	K. Meenakshi
4	ACUMEN CSFEST '12	Vasavi College of Engineering	Certified	K. Meenakshi
5	ACUMEN CSFEST '12	Vasavi College of Engineering	Certified	T. Tejaswini

6	ACUMEN CSFEST '12	Vasavi College of Engineering	Certified	S. Saranya
7	Techfest 2012 Hack track	IIT Bombay	Certified	Nikhil Sureka
8	TEXPLOSION 2K12 Paper presentation	Malla Reddy College of technology	First	R. Harika
10	Boxing Championship -2012	APABA	BRONZE	P.Prabu kiran

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

S No	Name of the Person	Type	Name of the Organization	Department	Contact Address
1	Dr. A Vinaya Babu	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)
2	Dr. G Vijaya Kumari	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)
3	Dr.S.Viswanadha Raju,	Academician	JNTUH College of Engineering Hyderabad	CSE	Professor of CSE JNTUHCE, JNT University Hyderabad
4	Ms.D Seetha MahaLakshmi	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)

25. Seminars/ Conferences/Workshops organized & the source of funding:

a)National

2012 – 2013					
S. No	Title of the Programme	Resource Persons	Date of the Event	Target Audience	No. of students attended
1	Concurrent Algorithms	Dr. Prasad Jayanth	7-9 & 13-14 th Aug, 2012	180	160
2	Cyber Security: from Protection to Warfare	Dr. Daneal Manchala	24 th Aug, 2012	180	150
3	Essentials of Software Testing and Quality Assurance	Mr. Sri venu Tadiparti	16-19 th Aug, 2012	350	245
4	IBM Rational Team Concert	Mr. Rajendra Chowdhary & Mr. Chinnmay Saraswat	8-11 th Oct, 2012	180	150

Event Conducted	
1	A one day seminar on Soft Skills at Vardhaman College of Engineering, on 1 st December 2012.
2	A one day seminar on 'Meeting of Academia' by IBM at Vardhaman College of Engineering, on 21 st December 2012.
3	A talk on 'Management and Spirituality' by Khurshed Batiwala at Vardhaman College of Engineering, on 27 th February 2013.
4	A seminar on 'HackTract Tech defence Enterprenureship Development Cell' by Bits Pilani faculty on

b) International: **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass per- centage
			*M	*F	
B. Tech - CSE	Nil	Nil	Nil	Nil	Nil
M. Tech – CSE	Nil	Nil	Nil	Nil	Nil
M. Tech – SE	Nil	Nil	Nil	Nil	Nil

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech - CSE	100	0.0	0.0
M. Tech – CSE	100	0.0	0.0
M. Tech – SE	100	0.0	0.0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket Number	Examination	Rank
2	Krishna Loya	11361129	GATE-2013	4431
3	CH. Ramya Sree	11411617	GATE-2013	12498
4	M. Prajman Kumar	111111033	GATE-2013	34639
5	K. Mallesh	11411625	GATE-2013	18471
6	S. Hitesh	SR8294745	CAT-2012	81.48(percentile)
7	Divya	11391589	GATE-2013	17402
8	K. Jagadishwar Reddy	SR8294701	CAT-2012	58.70(percentile)
9	G. Ramesh	202768	GATE-2013	44241
10	P. Thirupathi	205943	GATE-2013	28256
11	M. Naresh Goud	204363	GATE-2013	29483
12	Mr. N. Arjun	202271	GATE-2013	17033
13	Mr. K. Ramesh	200118	GATE-2013	49200
14	Mr. Allu Suresh Kumar	201994	GATE-2013	28256
15	Mr. D. Niranjana	119321	GATE-2013	60448
16	Goutham Reddy B	7125541	GRE-2012	200(Score)
17	Sandeep Kumar	5505675	GRE-2012	298(Score)
18	Phaneendra. M	6812690	GRE-2012	201(Score)
19	Phaneendra. M	17278513	TOEFEL-2012	201(Score)

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	40 %	32 %	38 %
PG to M. Phil	0 %	0 %	0 %
PG to Ph.D.	N / A*	15 %	10 %
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	11	84	64
• Other than campus recruitment	40	23	26
Entrepreneurship/Self-employment	44	10	20

*N/A: Not Applicable

30. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 9851 number of titles, 53722 number of volumes exclusively for CSE students and staff out of 1446 number of total titles, 7699 number of total volumes.

Apart from the above facility Department is having a separate departmental library facility for staff with 380 number of titles, 380 number of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. All the class rooms are provided with ICT facility with the exclusive LCD projectors and Laptops available in the department. Also all the laboratories are equipped with LCD projectors.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students(65 per all Labs)	Number of Experiments	Quality of instruments	Laboratory manuals
JAVA Lab	Exclusive	81.6 Sq. M	24+6*	Good	Available
DBMS Lab	Exclusive	81.6 Sq. M	19+2*	Good	Available
Rational Rose Lab	Exclusive	81.6 Sq. M	5+2*	Good	Available
Web Technologies Lab	Exclusive	81.6 Sq. M	15+6*	Good	Available
Computer Programming Lab-1	Exclusive	110.2 Sq. M	15+8*	Good	Available
Data Mining Lab	Exclusive	81.6 Sq. M	4+2*	Good	Available
Software Testing Lab	Exclusive	81.6 Sq. M	12+2*	Good	Available
Data Structures Lab-1	Exclusive	81.6 Sq. M	32+5*	Good	Available
Computer Graphics Lab	Exclusive	66.3 Sq. M	11+5*	Good	Available
Linux Programming Lab	Exclusive	66.3 Sq. M	13+2*	Good	Available
PC Software Lab-1	Exclusive	79.8 Sq. M	20+5*	Good	Available
C# and .NET Lab	Exclusive	85.5 Sq. M	15+2*	Good	Available
Research Lab-1	Exclusive	77.8 Sq. M	--	Good	Available
Research Lab-2	Exclusive	77.8 Sq. M	--	Good	Available

31. Number of students receiving financial assistance from college, university, government or other agencies:

S. No	Branch	Financial assistance from College, university, Government	Total number of Students	Amount
1	B. Tech CSE	Government	234	8108800
2	M. Tech CSE	Government	32	1449000
3	M. Tech SE	Government	17	1008000

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

The students are actively involved in all activities conducted by Technical Forums of the respective Departments besides participating in extra-curricular activities organized by NSS such as Blood Donation Camps, AIDS awareness programmes, Rural Health, Sanitation and Medical Camps. Also students enthusiastically participate in cultural events organized on important occasions like Freshers' Day, Graduation Day and Annual Day.

Students who have demonstrated their skills in Sports and Games are deputed to participate in Inter-collegiate and Inter-university tournaments.

Institutional Memberships

- College of Electrical and Electronics Engineers (IEEE)
- College of Engineers (India) - Life member
- Indian Society for Technical Education (ISTE)
- Computer Society of India (CSI)
- The Institution of Electronics & Telecommunication Engineers (IETE)
- Association for Computing Machinery (ACM)

Students Chapters of Professional Bodies

- Indian Society for Technical Education (ISTE)
- College of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

Technical Associations

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA - Computer Engineers Technical Association (CSE)
- ETA - Electrical Technical Association (EEE)
- VIVECA - Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT - Technical Association of Information Technology (IT)
- MACHINE - **Mechanical Association for Creating Highly Innovative Engineers**

National Level Student Technical Paper Contest relating to all branches, “**TECHNO-LITES**”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students’ participation.

33. Teaching methods adopted to improve student learning

1. Higher usage of ICT: LCD/Web usage etc.,
2. Critical thinking assignments
3. Demonstration of mini and main projects
4. Expert lectures from industry professionals
5. Adoption of mentorship for overall development of students

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

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

35. SWOC analysis of the department and Future plans

Strengths • Trust • A professional and competent team • Industry Expertise • Online journals subscription	Weaknesses • Lack of sophisticated equipment
Opportunities • Faculty expertise to secure funding. • Awareness in on-going research works • Geographic location to develop consultancy	Challenges • Getting qualified faculty • Retention of faculty

DEPARTMENT PROFILE OF THE INFORMATION TECHNOLOGY

1. GENESIS AND GROWTH

The Department of Information Technology was established in 1999 with an annual intake of 60, besides an additional 20% under lateral entry scheme and now the intake is enhanced to 120 for the academic year 2012 - 2013.

The Department was accredited by NBA from April, 2009 for a period of 3 years.

2. GOALS

- To start new career-oriented UG & PG Programs.
- To impart training in soft skills and provide 100% placement for all eligible students.
- To conduct Add-on programs.
- To establish a centre for research and consultancy in various domains of computer sciences and information technology.
- To enter into MoU with reputed industries and universities for research, knowledge sharing and student placements.
- To encourage faculty and student to undertake research.
- To encourage students and faculty to participate in Seminars/ Conferences/ Workshops.
- To adopt novel teaching-learning methodologies for effective delivery.
- To achieve 100% pass percentage in university exams.
- To foster community responsibility among students and faculty.
- To cultivate entrepreneur skills in students.

3. FACULTY AND STAFF

The Department is headed by Dr. N. Sambasiva Rao who has mixed blend of teaching and industrial experience of 25 years.

There are 16 faculty members including 1 Professor, 5 Associate Professors, 1 Assistant Professor (Sr. Grade) and 9 Assistant Professors. One faculty member has Ph.D. qualification and remaining 15 are with M. Tech qualifications among which 5 members are currently pursuing Ph.D

4. DEPARTMENT ADVISORY COMMITTEE

The Department has an Advisory Committee, which advises planning of academic matters and development of the laboratories and upgrading skills of the faculty. The members are:

1. Dr. K.G. Srinivas
Professor,
Department of CSE,
MSRIT, Bangalore.
2. Mr Kanduri Sreenivasa Ramanujam
Academic Relationship Manager
TATA Consultancy Services
Bangalore
3. Dr V. V. Rama Prasad
Professor and HOD
Department of Information Technology
Sree Vidyanikethan Engineering College, Tirupati

4. Dr. N. Sambasiva Rao
Professor and HOD
Department of Information Technology
Vardhaman College of Engineering
Shamshabad - 501 218, Hyderabad

5. PHYSICAL FACILITIES

a. Classrooms

The Department has 7 classrooms for Lectures and Tutorials. One Auditorium and 5 Seminar halls are available in the College for conducting Seminars, Guest Lectures and Expert Lectures. All the class rooms are well furnished with adequate facilities. All class rooms are echo free with good lighting and ventilation. The area of class rooms varies from 70 - 100 Sqm.

b. Laboratories

The Department has 72 computers in good working condition. The Department Library has one computer and each faculty cabin has one computer with Internet facility and accessible for students and faculty on all working days. All laboratories are equipped with latest versions of computers, softwares and hardware.

The Department has the following full-fledged laboratories:

1. Computer Programming Lab
2. Database Management Systems Lab
3. PC Software Lab
4. Network Programming Lab
5. Operating Systems Lab
6. Computer Networks Lab
7. Object Oriented Programming Lab
8. Unified Modeling Language Lab
9. Web Technologies Lab
10. Data Mining Lab
11. Software Testing Techniques Lab

c. Department Library

The Department library is established in an area of 40 Sqm. One computer system with internet facility is available for accessing on-line journals and research papers. The library has 447 titles of text and reference books and 523 volumes of UG courses. The number of project reports available in the library is 63 of UG. The Department also has 55 free on-line journals.

6. ACTIVITIES OF THE DEPARTMENT

The Department takes an active role in arranging expert lectures, guest lectures and Industrial visits for the benefit of students. Students are encouraged to take up industry oriented projects. The students are also motivated to present papers in student seminars, paper contests etc. at various conferences.

a. Faculty

Seminars and Faculty Development Programs: The senior faculty members are involved in conduction of Faculty Development programs to improvise and to update to the present day needs of the society. A National Level Seminar, AICTE is

conducted to motivate faculty to participate in seminars in the area of Computer Science and Engineering related fields.

Faculty Meetings: All important matters like formation of various academic/ administrative committees, research and development, subject allocation, student affairs etc. are discussed at the Departmental meetings and decisions are taken unanimously. The proceedings of each meeting are recorded.

Student Mentoring System: The Department organizes students counseling by the members of faculty to monitor regularity and discipline among students. About 15 students are allotted to each teacher to guide, motivate and counsel them on academic and other matters. The teacher counselors regularly interact with the students and maintain registers on the progress of the students.

Disciplinary Committee: Class teachers are allotted to check student's attendance and punctuality. A Disciplinary Committee comprising of the senior faculty is constituted for maintaining discipline and dress code of the students. Some faculty members are allotted roster duties to check the punctuality of both the staff and students.

b. Students

Students Technical Association: Technical Association for Information Technology (TAIT) organizes regularly co-curricular and extra-curricular activities for the all-round development of students. It organizes seminars, workshops, group discussions, etc. Memberships of Computer Society of India (CSI), Indian Society for Technical Education (ISTE), IEEE, ACM, IETE and IE students chapters gives easy access to information on the latest trends and developments in the field of Computer Sciences and Information Technology.

7. ALUMNI:

Alumni Chapter is in existence. Alumni meet is organized every year and feedback is obtained. The comments of the alumni are considered for improving the quality of teaching and facilities in the Department. The Department constantly interacts with the alumni and seeks their advice on academic matters.

Among the past three batches of students who have graduated so far, 121 students have been placed in reputed MNCs like Tata Consultancy Services, Tech Mahindra, Mahindra Satyam, Infosys Technologies Ltd, Robert Bosch, Computer Science Corporation, Convergys, Mphasis, Syntel etc. Some alumni have pursued higher studies in Engineering / Management in reputed Universities in India and abroad.

Alumni Chapter is in existence. The department interacts with them and gets feedback with regard to academic, placements etc. matters. Their suggestions are taken into consideration in various developmental activities of the department.

Evaluative Report of the Information Technology

1. Name of the department : **INFORMATION TECHNOLOGY**
2. Year of Establishment : 1999
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :

UG
B. Tech : INFORMATION TECHNOLOGY

4. Names of Interdisciplinary courses and the departments/units involved: NIL
5. Annual/ semester/choice based credit system (programme wise)

UG
Semester Based

6. Participation of the department in the courses offered by other departments
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.

Programme / Dept.	Human Resource (Faculty)
B.Tech Freshman Engineering	1. Computer Programming 2. Data Structures 3. PC Software Lab
EEE/ MECH / ECE	4. Database Management Systems 5. Computer Organization 6. Object Oriented Programming

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

Industry	Courses in Collaboration
IBM	Rational Application Developer (ACS11T20)
	GAME Development Using CUDA (ACS11T30)

8. Details of courses/programmes discontinued (if any) with reasons : NIL
9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	01
Associate Professors	04	06
Assistant Professors	11	10

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

S. No	Name of the Faculty	Qualification	Designation	Specialization
1	Dr. N. Sambasiva Rao	Ph.D	Professor & HOD	Software Engineering
2	Mr. A. Bhanu Prasad	M.E	Associate professor	Data Mining, Knowledge Discovery
3	Ms. E.R. Aruna	M.Tech	Associate professor	Data Mining
4	Mr. G. Kanaka Raju	M. Tech	Associate professor	Service Oriented Operating Systems , Computer Networks
5	Mr. A. Krishna Chaitanya	M.Tech	Associate professor	Data Mining, Data Bases
6	Ms. B. Padmaja	M.Tech	Associate Professor	Database Management Systems, Data Warehousing & Data Mining
7	Mr.S.K.Prashanth	M.Tech	Associate Professor	Cloud Computing
8	Ms. G. Rathnamma	M.Tech	Assistant Professor (Sr.Grade)	Distributed Operating Systems
9	Ms. L. Maheswari	M.Tech	Assistant Professor	Wireless Networks, Network Security
10	Mr. G. Venkatesh	M.Tech	Assistant Professor	Wireless and Sensor Networks
11	Mr. K. Anvesh	M. Tech	Assistant Professor	Software Engineering, Mobile Ad hoc Networks
12	Ms. Ch Prathima	M. Tech	Assistant Professor	Computer Science and Technology
13	Mr. Trinath Basu	M.Tech	Assistant Professor	Wireless Sensor Networks
14	Mr. I. Srikanth	M.Tech	Assistant Professor	Computer Networks, Network Security
15	Ms. P. R. Anisha	M.Tech	Assistant Professor	Data Mining, Image Processing
16	Mr. D. Naveen	M.Tech	Assistant Professor	Computer Networks, Image Processing
17	Ms. S. Swathi	M.Tech	Assistant Professor	Software Engineering, Cloud Computing

11. List of senior visiting faculty

1	Dr. T. V. Suresh Kumar, Professor, Dept of CSE, M. S. Ramaiah Institute of Technology, Bangalore.
2	Dr. K. G. Srinivas, Associate Professor, Dept of CSE, M. S. Ramaiah Institute of Technology, Bangalore.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : **No temporary faculties are in rolls**

13. Student -Teacher Ratio (programme wise)

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	16 + 8 from H & S (24 required)	360	1:15

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

	Sanctioned	Filled
Academic Support Staff	2	2
Administrative Staff	1	1

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

Qualification	No. of faculty
PG (ME / M. Tech)	15
Ph. D	01

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

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

S No.	Name of the faculty	Scheme	Funding agency	Sanctioned amount	Received amount
1	Dr. N Sambasiva Rao	MODROBS	AICTE	Rs. 7,00,000	Rs. 7,00,000

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

19. Publications:

a) Publication per faculty

Dr. N Sambasiva Rao 1. N Sambasiva Rao et al, "Routing Algorithms and Algorithms for Lifetime-Optimization in Complex Sensor-Actuator-Networks", International Journal of Engineering Inventions (IJEI), Nov 2012, ISSN 2278-7461. 2. N. Sambasiva Rao et al, "Detection of Outliers and Change points in a Data Stream of Bio Informatics Data", International Journal of Engineering Research & Technology (IJERT), Vol. 1 Issue 6, August – 2012, ISSN: 2278-0181. 3. N Sambasiva Rao et al, "Coordination in Large-Scale Software Development: Helpful and Unhelpful Behaviors", International Journal of Computer Science and Management Research, Vol 2, Issue 3, March 2013. 4. N Sambasiva Rao et al, "Survey on Bug Prediction Based on Features Selection", International Journal Of Mathematics And Computer Research, Volume 1 issue 1 Feb 2013. 5. N Sambasiva Rao et al, "CPV: Open Source Software Survivability Analysis by Communication Pattern Validation Approach", International Journal of Science and Research (IJSR), India, Volume 2 Issue 3, March 2013.
Mr. A. Bhanu Prasad 1. A. Bhanu Prasad et al, "Automatic vehicle Detection and Tracking for Event Analysis in Intelligent Aerial Surveillance Using Dynamic Bayesian Networks", International Journal of Engineering Research & Technology (IJERT), Vol, 2, Issue 2, Feb-

ruary 2013. 2. A. Bhanu Prasad et al, "Horizontal Aggregations in SQL by Using Clustering as a Mixture Gaussians", International Journal of Engineering Research & Technology (IJERT), Vol, 2, Issue 2, February 2013. 3. A. Bhanu Prasad et al, "Space and Cosine Similarity measures for Text Document Clustering", International Journal of Engineering Research & Technology (IJERT), Vol, 2, Issue 2, February 2013. 4. A. Bhanu Prasad et al, "Support Vector Mechanism Based Citation Parser", International Journal of Engineering Research & Technology (IJERT), Vol, 2, Issue 2, February 2013. 5. A. Bhanu Prasad et al, "Novel Protocol Technique For Energy Efficient Routing Conservation in Wireless Ad-hoc Networks" International Journal of Computational Intelligence and Information Security, Vol 2, Issue No 10, October 2011.
Ms. E. R. Aruna 1. E.R. Aruna, "Clustering Analysis and Study on Deriving Concept Based User Profile fro Search Engine Logs", International Journal of Computational Intelligence and Information Security , Vol 2, Issue No. 8, August 2011. 2. E.R. Aruna, "DDoS Attacks – Monitoring the Application – Layer with Popular Data-sets", International Journal of Computational Intelligence and Information Security, Vol 2, Issue No. 10, October 2011.
Mr. G. Kanaka Raju 1. Kanaka Raju Gariga et al, "AN ENHANCED RSA ALGORITHM FOR LOW COMPUTATIONAL DEVICES", International Journal Of Advanced Research and Innovations (IJARI), Vol.1, Issue .2, January 2013.
Mr. A. Krishna Chaitanya 1. A. Krishna Chaitanya et al, "Collaborating Services of Dynamic Authentication in Service-Oriented Architecture -Based Business Processes", International Journal of Advanced Research in Computer Science (IJARCS), Volume 3, No. 4, July- August 2012. 2. A. Krishna Chaitanya et al, "Detection of Outliers and Change points in a Data Stream of Bio Informatics Data", International Journal of Engineering Research & Technology (IJERT), Vol. 1 Issue 6, August – 2012, ISSN: 2278-0181. 3. A.Krishna Chaitanya et al, "A New Distributed Accountability and Auditability for Data Storage in Cloud Computing", International Journal of Mathematics And Computer Research, Volume 1 issue 1 Feb 2013. 4. A.Krishna Chaitanya et al, "Organizing User Search Histories into Relevant Query Groups by Using Em –Algorithm", International Journal of Research PARIPEX, Volume: 2, Issue: 2, february 2013. 5. A. Krishna Chaitanya, Mounika B, "Pattern Mapping Approach for Detecting Xss Attacks In Multi - Tier Web Applications Using Double Guard", IOSR Journal of Computing Engineering, Vol 12, Issue 3, pp. 1-5, July- August 2013.
Ms. B. Padmaja 1.B Padmaja, E Krishna Rao Patro, "Green Computing Challenges for Today's Economical and Environmental Condition", National Conference on Intelligent Systems and Communications, 02-03 December, 2009, Sri Padmavathi Mahila Visvavidyalayam, Tirupati. 2.B Padmaja and E Krishna Rao Patro, Dr K Usha Rani, "Monitoring User Behavior in Online Bill Submission Through Data Visualization", National Conference on Computing and Communication Technologies during 06-07 October, 2010, Sri Padmavathi Mahila Visvavidyalayam, Tirupati.

Mr. S. K. Prashanth

1. A Rahul , SK prashanth , Suresh, Arun , "Detection of Intruders and Flooding in VoIP using IDS, Jacobson Fast and Hellinger Distance Algorithms", International journal on Organization of Scientific Research on Computer Engineering, Vol 2, Issue 2, ISSN: 2278-0661.
2. A Rahul , SK prashanth , Suresh, Arun , "Detection of Intruders and Flooding in VoIP using IDS, Jacobson Fast and Hellinger Distance Algorithms", IEEE, 3rd International conference on Technical and Managerial Innovation in Computing and Communications in Industry and Academia
3. C Kishor Kumar Reddy, B Suresh kumar SK Prashanth, SK Lokesh Naik, "Cloud Specific Issues and Vulnerabilities Solutions", International Conference on Computer Science and Information Technology, ISBN: 978-93-81693-86-5, Tirupathi, 2012.
4. C Kishor Kumar Reddy, SK Lokesh Naik, SK Prashanth, B Suresh kumar, "Cloud Specific Issues and Vulnerabilities Solutions", International Journal of Scientific & Engineering Research, Vol 3, Issue 7, ISSN 2229- 5518, July-2012.
5. Ch. Demudu Naidu, Pallam S Setty, James M Stephen, S.k.prashanth and Ch. Suresh. "Steganography Detection using Functional Link Artificial Neural Networks". International Journal of Computer Applications 47(5):6-10, 10.5120/7182-9882, June 2012. Published by Foundation of Computer Science, New York, USA. BibTeX,
6. K Sunitha , V Tejaswini , SK prashanth , " Ensuring Availability and Integrity of Data storage in cloud computing " PARIPEX - INDIAN JOURNAL OF RESEARCH, Vol : 2 Issue : 2 February 2013, ISSN - 2250-1991
7. K Sunitha , V Tejaswini , SK prashanth , " Privacy Preserving and Public Auditing" PARIPEX - INDIAN JOURNAL OF RESEARCH, Vol : 2 Issue : 2 february 2013, ISSN - 2250-1991
8. K. Uday kumar, SK prashanth , " Security For Bulk Data In Cloud" PARIPEX -INDIAN JOURNAL OF RESEARCH, Vlo 2 Issue 3 , March 2013, ISSN - 2250-1991
9. Bhanu Prakash Goud, SK prashanth , " Analyzing And Ranking Web Services Based On Multi- Criteria Matching" PARIPEX -INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 3 March 2013, ISSN - 2250-1991
10. B Arun, SK prashanth, "Cloud Computing Security Using Secret Sharing Algorithm" PARIPEX – INDIAN JOURNAL OF RESEARCH, Vol 2, Issue 3, March 2013, ISSN - 2250-1991.

Ms. L. Maheswari

1. Maheswari Losetti et al, "AN ENHANCED RSA ALGORITHM FOR LOW COMPUTATIONAL DEVICES", International Journal Of Advanced Research and Innovations (IJARI), Vol.1, Issue .2, January 2013.

Mr. G. Venkatesh

1. G. Venkatesh et al, "Routing Algorithms and Algorithms for Lifetime-Optimization in Complex Sensor-Actuator-Networks", International Journal of Engineering Inventions (IJEI), Nov 2012, ISSN 2278-7461.

Mr. K. Anvesh

1. Anvesh K et al, "Improve Efficient Secured QOS and SQDF for MANETS", International Journal of Advances in Science and Technology (IJAST), Vol. 5, No.1, 2012.
2. Anvesh K et al, " Level Channel Assignment Algorithm For Multichannel Wireless Mesh Network", International Journal of Advances in Science and Technology (IJAST), Vol. 4, No.6, 2012.
3. Anvesh K, B. Suresh Kumar, "Hyper Graph Deviation Comparison & Cluster Relation In Categorical Data", IOSR Journal of Computer Engineering, Vol 12, Issue 2. July 2013.

Ms.Ch. Prathima

1. K. Bhaskar Naik, M. Supriya, Ch. Prathima, B. Ramakantha Reddy, "Lossless Compression and Aggregation Analysis for Numerical and Categorical Data in Data Cubes", Journal of Computing, Vol 3, Issue 6, June 2011, ISSN-2151-9617.

Ms. P. R. Anisha

1. P.R Anisha, Prudhvi Kumar Reddy, Narasimha Prasad L V, " Detection of Wave-lengths for Hail Identification using Satellite Imagery of Clouds" IEEE CICSYN, 2013.
2. C. Kishor Kumar Reddy, M. Venkateswarlu, P. R Anisha, "Usage of Incremental Provider aided Distance Information System to Improve user Assignment from a Performance Perspective for Content Delivery Networks", IJSER, Vol. 3,ISSN: 2229-5518, pp. 1-6, 2012.
3. C. Kishor Kumar Reddy, P. R Anisha, K. Srinivasulu Reddy, S. Surender Reddy, "Third party Data Protection Applied to Cloud and XACML Implementation in the Hadoop Environment with SPARQL", IOSR-JCE, Vol. 2, ISSN: 2228-0661, pp. 39-46, 2012.
4. C. Kishor Kumar Reddy, P. R Anisha, B. Mounika, V. Tejaswini "Resolving Cloud Application Migration Issues", IJEL, Vol. 1, Issue 2, ISSN: 2229-5518, pp. 1-7, 2012.
5. C. Kishor Kumar Reddy, M. Venkateswarlu, P. R Anisha, "To Improve user Assignment from a Performance Perspective for Content Delivery Networks", International Conference on Recent Trend in Computer Science, 2012.
6. C. Kishor Kumar Reddy, P. R Anisha, K. Srinivasulu Reddy, E. Krishna Rao Patro, "Causes for data corruption and to minimise the computation overhead of the cloud storage server through hashing concept, ICRDET, ISBN: 978-93-82208-06-08, pp. 24-30, 2012.
7. C.Kishor Kumar Reddy, P.R Anisha, "Securing Data during Cloud Hoping", ICACTE, 2012.

Mr. D. Naveen

1. Kishoar Kumar Reddy C, Anisha P R, Naveen D, Sai Kumar A, " Federated Clouds: An Era to Increase Scalability and Reliability", Proceedings of International Conference on Advance Computer Theory and Engineering, Bangalore, pp. 65-71, 2012.

Ms. S. Swathi

1. Swathi Sambangi , P.Vijaya Bharati , Uday Kumar Addanki , Muvva Praveen Kumar, "Multicast Authentication using Batch Signature-MABS", International Journal of Computational Engineering & Management, Vol. 15 Issue 1, January 2012, ISSN (Online): 2230-7893, www.ijcem.org
2. Swathi Sambangi, Nagaram Phani Kumar, Kiran Katta, Deepika Rani, "Enhanced Progressive Parametric Approach For Query Optimization", International Journal of Engineering Research and Applications, Vol. 2, Issue 2,Mar-Apr 2012, pp.891-896, ISSN: 2248-9622.
3. Sambangi Swathi , Mudiganti Vijaya Bhaskar, " Analyzing Fault Diagnosis Using PPDG & Its Applications" , International Journal of Modern Engineering Research, Vol.2, Issue.5, Sep-Oct. 2012 pp-3429-3433 ISSN: 2249-6645
4. Swathi Sambangi , " Cloud Data Storage Services Considering Public Audit for Security" , Global Journal of Computer Science and Technology ,Volume 13 Issue 1 Version 1.0 Year 2013, Online ISSN: 0975-4172 & Print ISSN: 0975-4350.

- * Number of papers published in peer reviewed journals (national / international) by faculty and students: **17**
- * 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.): **12**
- * Books with ISBN/ISSN numbers with details of publishers

Ms. E R Aruna, Associate Professor

Books Published:

E R Aruna "Discreate Mathematical Structures", Spectrum Techno Press, Bangalore, ISBN-13 No:978-81-927086-3-8.

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 % of the students have done their projects in-house

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:

FACULTY: **NIL**

STUDENTS:

S No.	Student Details	Name of the Contest	Venue	Paper Title /Event Name	Recognition / Awards
1	Pranay Kumar B	TECNHOLITES 2k12 A National Level Student's Technical Arena	Vardhaman College of Engineering, Hyderabad	Coding Debugging	First Prize
2	Sanjay hoyar	TECNHOLITES 2k12	VCE, Hyderabad	Coding Debugging	First Prize
3	M Dilip Reddy	TECNHOLITES 2k12	VCE, Hyderabad	Game On	First Prize
4	C. Shwetha	TECNHOLITES 2k12	VCE, Hyderabad	Paper Presentation	Second Prize
5	V. Aruna	TECNHOLITES 2k12	VCE, Hyderabad	Paper Presentation	Second Prize

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

S. No	Name of the Person	Type	Name of the Organization	Department	Contact Address
1	Dr. A Vinaya Babu	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)
2	Dr. G Vijaya Kumari	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)
3	Dr.S.Viswanadha Raju,	Academician	JNTUH College of Engineering Hyderabad	CSE	Professor of CSE JNTUHCE, JNT University Hyderabad
4	Ms.D Seetha MahaLakshmi	Academician	JNTUH College of Engineering Hyderabad	CSE	Computer Science & Engineering (Autonomous)

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

a) National

S.No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
1	ISTE CHAPTER	Technolites 2k12	13-14 Oct 2012	--	45
2011– 2012					
2	ISTE CHAPTER	Technolites 2K11	29-30 Oct 2011	10	100
4	ISTE CHAPTER	INDO –US Faculty Leadership Inst	02-03 August 2011	5	40
2010 – 2011					
2	ISTE CHAPTER	Technolites 2K10	08-09 Oct 2010	8	86
3	ISTE CHAPTER	Workshop on Active Research, WAR 2010	15 Sep, 2010	34	12
4	IEEE CHAPTER	One Day Lecture on “Talk on Innovation”	20-Aug-10	12	476

	Event Conducted
1	A one day seminar on Soft Skills at Vardhaman College of Engineering, on 1 st December 2012.
2	A one day seminar on ‘Meeting of Academia’ by IBM at Vardhaman College of Engineering, on 21 st December 2012.
3	A talk on ‘Management and Spirituality’ by Khurshed Batiwala at Vardhaman College of Engineering, on 27 th February 2013.
4	A seminar on ‘HackTract Tech defence Enterprenureship Development Cell’ by Bits Pilani faculty on

b) International : **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M *F	Pass percentage
B. Tech (IT)	NIL	NIL	NIL	Not applicable

*M=Male F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG - B.TECH - IT	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : NIL

29. Student progression

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	30%	20%	10%
PG to M. Phil	0%	0%	0%
PG to Ph.D.	N/A*	5%	5%
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	5	13	40
• Other than campus recruitment	2	5	6
Entrepreneurship/Self-employment	0%	0%	0%

30. Details of Infrastructural facilities

a) Library

Vardhaman central library is having 53722 number of titles, 9851 number of volumes exclusively for EEE students and staff out of 866 number of total titles, 4738 number of total volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department.

Room description	Usage	Share / Exclusive?	Capacity	Rooms Equipped with
Class Room No. 5004	I Yr B.Tech (A) Class Room	Exclusive	75	Black board, LCD Projector and Laptop
Class Room No. 5103	I Yr B.Tech (B) Class Room	Exclusive	75	Black board, LCD Projector and Laptop
Class Room No. 1210	II Yr B.Tech Class Room	Exclusive	75	Black board, LCD Projector and Laptop
Class Room No. 1211	III Yr B.Tech Class Room	Exclusive	75	Black board, LCD Projector and Laptop
Class Room No. 1212	IV Yr B.Tech Class Room	Exclusive	75	Black board, LCD Projector and Laptop
Tutorial Room No. 1316	Tutorial room-1	Exclusive	35	Black board, LCD Projector and Laptop
Tutorial Room No. 1205	Tutorial room-2	Exclusive	35	Black board, LCD Projector and Laptop
Room No 5210 E Class Room	Seminar, Guest lecture & Expert Lecture	Shared	100	White board, LCD Projector, Audio Equipment and Laptop
Room No 6003 Seminar Hall	Seminar, Guest lecture & Expert Lecture	Exclusive	150	White board, LCD Projector, Audio Equipment and Laptop
Room No 6001 Auditorium	Seminar, Guest lecture & Expert Lecture	Shared	600	White board, LCD Projector, Audio Equipment and Laptop

Room description	Usage	Share / Exclusive?	Capacity	Rooms Equipped with
5201	Board Room / Meeting Room	Shared	35	White board, LCD Projector, Audio Equipment and Laptop

d) Laboratories

All the laboratories are equipped with LCD projects.

Room No 3013A	Computer Programming Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 3013B	PC Software Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 3014A	Operating Systems Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 3014B	Object Oriented Programming Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 3216A	Database Management Systems Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 3216B	Computer Networks Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 1103A	Web Technologies Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 1103B	Data Mining Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 1201A	UML & Software Testing Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board
Room No 1201B	Linux Programming Lab	Exclusive	33	High end Configured Desktops, Printer, LAN, White Board

31. Number of students receiving financial assistance from college, university, government or other agencies

S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	B. Tech (IT)	1 st	48	NIL
		2 nd	27	NIL
		3 rd	24	NIL
		4 th	25	NIL
	Total No. of B. Tech students		124	NIL

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

The students are actively involved in all activities conducted by Technical Forums of the respective Departments besides participating in extra-curricular activities organized by NSS such as Blood Donation Camps, AIDS awareness programmes, Rural Health, Sanitation and Medical Camps. Also students enthusiastically participate in cultural events organized on important occasions like Freshers' Day, Graduation Day and Annual Day.

Students who have demonstrated their skills in Sports and Games are deputed to participate in Inter-collegiate and Inter-university tournaments.

Institutional Memberships

- Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Engineers (India) - Life member
- Indian Society for Technical Education (ISTE)
- Computer Society of India (CSI)
- The Institution of Electronics & Telecommunication Engineers (IETE)
- Association for Computing Machinery (ACM)

Students Chapters of Professional Bodies

- Indian Society for Technical Education (ISTE)
- Institute of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

Technical Associations

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA – Computer Engineers Technical Association (CSE)
- ETA – Electrical Technical Association (EEE)
- VIVECA – Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT – Technical Association of Information Technology (IT)
- MACHINE – **Mechanical Association for Creating Highly Innovative Engineers**

National Level Student Technical Paper Contest relating to all branches, “**TECHNO-LITES**”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students’ participation.

Orientation Day

At the time of admissions, orientation classes are arranged wherein the freshers and their accompanying parents are briefed about the College, facilities available and academic requirements. Matters pertaining to discipline, dress code, and regularity are highlighted and parents are invited to interact.

An exclusive Parents meet is arranged where in the Chairman of the Society and eminent personalities from different walks of life address the gathering. The parents interact with the faculty and Management on the occasion.

Fresher’s Day

After completion of the admissions and soon after commencement of class work, senior students arrange “Get-together” and welcome the Fresher’s to the campus.

Annual Day

The College Annual Day is celebrated in March every year on a grand scale. The colorful cultural activities are organized on that day.

Graduation Day

The college Graduation day is conducted in June every year. **Graduation** is the action of receiving or conferring an academic degree or the ceremony, where students become Graduates. The date of graduation is often called **degree day**.

Literary and Cultural Activities:

2012 – 2013			
S. No	Event	Venue	Date
1	ORTUS'13, Annual Day Celebrations	Vardhaman College of Engineering	02-03-13
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	01-03-13
3	Engineers Day Celebrations	Vardhaman College of Engineering	15-09-12
4	Teachers Day Celebrations	Vardhaman College of Engineering	05-09-12
2011 – 2012			
1	ORTUS'12, Annual Day Celebrations	Vardhaman College of Engineering	31-03-12
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	30-03-12
3	Dandiya Celebrations	Vardhaman College of Engineering	01-10-11
4	E-Clats-2k11 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	12-08-11
2010 – 2011			
1	ORTUS'11, Annual Day Celebrations	Vardhaman College of Engineering	19-03-11
2	Traditional Day Celebrations	Vardhaman College of Engineering	18-03-11
3	Dandiya Celebrations	Vardhaman College of Engineering	14-10-10
4	E-Clats-2k10 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	21-08-10

33. Teaching methods adopted to improve student learning

1. Higher usage of ICT: LCD/Web usage etc.,
2. Critical thinking assignments
3. Demonstration of mini and main projects
4. Expert lectures from industry professionals
5. Adoption of mentorship for overall development of students

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

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

35. SWOC analysis of the department and Future plans

SWOC analysis of the department and Future plans

STRENGTHS:

- S19. B. Tech Information Technology program is accredited by NBA for 3 Years
- S20. Increasing size of the student interest joining the IT program and market demand for IT graduates.
- S21. Strong faculty qualification, talented and dedicated, knowledgeable and cooperative faculty, great collaboration and good communication among faculty
- S22. High quality faculty having expertise in a broad range of modern Information Technology fields
- S23. Strong history of balancing teaching and quality research; active faculty publication activities
- S24. Strong Institutional and department level support for faculty research activities
- S25. Cohesive and supportive working environment among department members
- S26. Well defined program assessment (including Program Educational Objectives, course learning outcomes, and instruction assessments).
- S27. Flexible curriculum management with devoted Faculty
- S28. Good encouragement for students in numerous research and independent study
- S29. Adequate facilities for classrooms, department library, seminar room, administrative rooms and upgraded labs
- S30. Good placements of the students in IT Companies and motivation to higher studies

WEAKNESSES:

- W1. While the demand for graduates continues to increase, the availability of new, qualified and experienced faculty to teach is dropping.
- W2. Inactive in research funding
- W3. No PG program under the department
- W4. Insufficient funds for faculty development programs
- W5. Not many strong publications

OPPORTUNITIES:

- O1. B. Tech IT Program is the major intellectual glue of business, industry, government and academe
- O2. Excellent career opportunities for IT graduates
- O3. Excellent opportunities for interdisciplinary research
- O4. Opportunities to find research grants from industry and government agencies
- O5. Build up the department from recent joining faculty members
- O6. Maintaining and utilizing better contact to our alumni
- O7. Be consultative to other units

CHALLENGES:

- C1. Mushrooming engineering Universities who attract top talent students
- C2. Continuing encroachment on IT field by other departments
- C3. Risk of not attracting and retaining highly qualified and experienced IT staff
- C4. High variance in student ability and experience
- C5. Rapidly changing technologies that are beyond the current curriculum

Future plans:

- To intent to accomplish and implement the goals and initiatives of the department
- To provide technology-enhanced learning and an approach to research collaboration that is user friendly, feature rich, scalable, and accommodates the evolving needs of students and faculty
- Select, acquire, and implement a state-of-the-art teaching learning process to support goals, vision and mission of the department
- Improve the Faculty and student motivation towards research and life long learning
- Continuous qualitative assessment of the level of the students in the program
- To improve quality of student information integrity and accessibility

Evaluative Report of the Electronics and Communication Engineering

1. Name of the department : **Electronics and Communication Engineering**
2. Year of Establishment : **1999**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
B. Tech : a. Electronics and Communication Engineering	M. Tech: a. Wireless and Mobile Communications. b. Digital Electronics and Communication Systems. c. Embedded Systems.

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

5. Annual/ semester/choice based credit system (programme wise):

UG	PG
Semester Based	Semester Based

5. Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.
6. Courses in collaboration with other universities, industries, foreign institutions, etc. :
 - a. "Cadence VLSI Certificate Program (CVCP)" with Cadence Design Systems (Ireland) Limited, Ireland.
 - b. "Embedded System with Real Time Operating System using μ C/OS II" a certification program with ThinkLABS Techno Solutions Pvt Ltd, SINE, IIT Bombay.
7. Details of courses/programmes discontinued (if any) with reasons: **NIL**
8. Number of Teaching posts:

Designation	Sanctioned	Filled
Professors	7	8
Associate Professors	12	13
Assistant Professors	28	27

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

S No.	Name	Qualification	Designation	Specialization
1.	Prof Y. PANDURANGAIAH	M. TECH	Professor & HOD	Microwave and Radar Engineering
2.	Prof. R. MURALI PRASAD	M. Tech, Ph.D	Professor	Communications
3.	Dr. J V R RAVINDRA	M. Tech, Ph.D	Professor	VLSI
4.	Dr. D.B.V JAGANNADHAM	M. Tech, Ph.D	Professor	Digital Signal Processing Systems
5.	Dr. K.SURESH	M. Tech,	Professor	Power Electronics

		Ph.D		
6.	Dr. M MURALIDHAR	M. Tech, Ph.D	Professor	Signal Processing
7.	Dr. K HARIKRISHNA	M. Tech, Ph.D	Professor	Embedded Systems
8.	Dr. P. SUBBIAH	M. Tech, Ph.D	Professor	Instrumentation
9.	Mr. S. RAJENDAR	M. TECH	Associate Professor	VLSI
10.	Ms. A. VIJAYA LAXMI	ME	Associate Professor	Communications
11.	Ms.B.V.S.L.BHARATHY	M. TECH	Associate Professor	VLSI
12.	Ms. SANGEETHA SINGH	M. TECH	Associate Professor	VLSI
13.	Mr.J.KRISHNA CHAITANYA	M. TECH	Associate Professor	Digital Image Processing
14.	Mr. K.SATISH REDDY	MS	Associate Professor	Wireless Commu- nications
15.	Ms. S SUJANA	M. TECH	Associate Professor	Digital Systems & Computer Electron- ics
16.	Mr. KARRA SRIDHAR REDDY	M. TECH	Associate Professor	Embedded Systems
17.	Mr. S SRINIVAS	M. TECH	Associate Professor	Wireless and Mobile Communications
18.	Ms. C. PADMINI	M. TECH	Associate Professor	Digital Systems and Computer Electron- ics
19.	Mr.T RAMA KRISHNAIAH	M. TECH	Associate Professor	Computers and Communications
20.	Ms. M.SRILATHA	ME	Associate Professor	Digital System En- gineering
21.	Mr. K DURGA PRASAD	M. TECH	Associate Professor	Digital Systems and Computer Electron- ics
22.	Mr. H.SHRAVAN KUMAR	M. TECH	Assistant Professor	VLSI System design
23.	Mr. V. HARINI	M. TECH	Assistant Professor	Communication Engineering
24.	Mr. ANNAM KALYAN SRINIVAS	M. TECH	Assistant Professor	Wireless and Mobile Communications
25.	Mr. M.VEERASWAMY	M. TECH	Assistant Professor	Digital Systems and Computer electron- ics
26.	Mr. M. NAGARJUNA	M. TECH	Assistant Professor	VLSI
27.	Mr. G BHASKAR PHANI RAM	M. TECH	Assistant Professor	Embedded Systems
28.	Ms. M P SIRISHA	M. TECH	Assistant Professor	VLSI
29.	Mrs. K.SATYA SREE	M. TECH	Assistant Professor	Computers and Communications
30.	Mrs. G. RADHIKA	M. TECH	Assistant Professor	Digital Systems and Computer electron- ics
31.	Ms. A. JAYA LAKSHMI	M. TECH	Assistant Professor	Communications and Signal Processing
32.	Mr. ELIAZ MOHAMMED	ME	Assistant Professor	Applied Electronics
33.	Ms. K LATHA	M. TECH	Assistant Professor	VLSI System Design
34.	Ms. P.LAKSHMI DEEPTI	M. TECH	Assistant Professor	RF & Microwave Engineering
35.	Mr. I.BABU	M. TECH	Assistant Professor	VLSI System Design
36.	Mr. N SATYANARAYANA	M. TECH	Assistant Professor	VLSI
37.	Ms. K SWATHI	M. TECH	Assistant Professor	VLSI
38.	Ms. E P VANETHA	ME	Assistant Professor	Applied Electronics
39.	Ms. M ANUSHA	M. TECH	Assistant Professor	VLSI
40.	Ms. KUMARI ARTI	M. TECH	Assistant Professor	Control Systems
41.	Ms. G RANJITHA	M. TECH	Assistant Professor	Embedded Systems
42.	Mr. B.NARASIMHA	M. TECH	Assistant Professor	Computers and Communications
43.	Mr. K. VENKATESWARA RAJU	M. TECH	Assistant Professor	VLSI System design

44.	Mr. K. SRINIVASA KALYAN	M. TECH	Assistant Professor	Communication Engineering
45.	Mr. B. VENKATA REDDY	M. TECH	Assistant Professor	Wireless and Mobile Communications
46.	Ms. M. KALYANI	M. TECH	Assistant Professor	VLSI System Design
47.	Mr. R. GANGADHAR REDDY	M. TECH	Assistant Professor	Digital System Engineering
48.	Ms. D. PARVATHI	M. TECH	Assistant Professor	Wireless and Mobile Communications

10. List of senior visiting faculty:

- i) Dr. R. V. S. Satya Narayana, Professor, SVU College of Engineering, Tirupati.
- ii) Dr. M. Asha Rani, Professor, JNTU College of Engineering, Hyderabad.

11. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **No temporary faculty are in rolls**

12. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	30 + 10 from S & H (52 required)	780	1:15
M. Tech – WMC	3	36	1:12
M. Tech – DECS	6	72	1:12
M. Tech – ES	3	36	1:12

13. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

	Sanctioned	Filled
Academic Support Staff	7	7
Administrative Staff	1	1

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

Qualification	No. of faculty
PG (ME / M. Tech)	40
Ph. D	3

15. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **1 (One)**

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

S No.	Name of the faculty	Scheme	Funding agency	Sanctioned amount	Received amount
1	Dr. J. V. R. Ravindra	RPS	AICTE	Rs. 16,00,000	Rs. 2,10,000

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

18. Publications:

- * a) Publication per faculty

Prof. Y. Pandu Rangaiah
1. Pandurangaiah Yagateela, " Study of Intensity Modulated Fiber Optic Sensor - Effect of Length of Core Exposed in Guiding Liquid, Journal of Pure and Applied Physics. Volume - June 2008, PP.129 - 134.
2. JVR Ravindra, Pandurangaiah Yagateela, Narasimha Prasad L V, "A Novel Analytical Model for Analysis of Delay and Crosstalk in Non Linear", 15th IEEE International Conference on

Prof. R. Murali Prasad

1. Murali Prasad R., Dr. Satish Kumar P., "An Adaptive Power Efficient Pocket Scheduling Algorithm for WiMAX Networks", International Journal of Computer Science and Information Security, pp. 295-300, Vol. 8, No. 1, April 2010. ISSN: 1947-5500.
2. Murali Prasad R., Dr. Satish Kumar P., "A Joint Routing and Bandwidth Allocation Protocol for IEEE 802.16 WiMAX Mesh Networks", International Journal of Engineering and Technology, pp. 442-446, Vol. 2, No. 5, OCT 2010. ISSN: 1793-8236
3. Murali Prasad R., Dr. Satish Kumar P., "Resource Allocation- WiMAX Systems", Modern Applied Science, Vol. 4, No. 12, pp. 140-150, Dec 2010. ISSN: 1913-1844
4. Murali Prasad R., Dr. Satish Kumar P., "An Efficient Connection Admission Control Mechanism for IEEE 802.16 Networks", American Journal of Scientific Research, Issue 27, pp. 120-127, 2011. ISSN: 2301-2005
5. Murali Prasad R., Dr. Satish Kumar P., "Joint Routing, Scheduling and Admission Control Protocol for WiMAX Networks", International Arab Journal of International Technology. Vol. 10, No. 1, pp. 85-94, Jan 2013 ISSN : 1683-3198

Dr. J. V. R. Ravindra

1. Ch. Ashok Babu, J.V.R. Ravindra, K. Lal Kishore, "Novel Circuit Level Leakage Power Reduction Technique for Ultra Low Power and High Speed VLSI Circuits" in International Journal of Communication Engineering Applications (IJCEA). Vol. 3, No. 3, Aug-Dec 2012.
2. J.V.R. Ravindra, M.B. Srinivas, "Delay And Energy Efficient Coding Technique For Capacitive Interconnects" in special issue on Advances in Circuits and Systems for Large Scale Integration in The Journal of Circuits, Systems, and Computers (JCSC). Vol. 16, No. 6 (2007), pp. 929-942.
3. J.V.R. Ravindra, M.B. Srinivas, "Model Order Reduction of Linear Time Variant High Speed VLSI Interconnects using Frequency Shift Technique" in International Journal of Electronics, Circuits and Systems, World Academy Publishers. Vol. 8, pp. 772-776, 2008.
4. J.V.R. Ravindra, M.B. Srinivas, "Modeling and Simulation of Propagation Delay and Crosstalk of Distributed RLC Interconnects using Difference Model Approach" Communicated to Integration, The VLSI Journal, Elsevier publications
5. J.V.R. Ravindra, M.B. Srinivas, "Statistical Model for Estimating the Effect of Process Variations on Delay and Slew Metrics in VLSI Interconnects" Communicated to IET Journal of Computer and Digital Techniques.
6. J.V.R. Ravindra, Y. Pandu Rangaiah, L.V.N. Prasad, "A Novel Analytical Model for Analysis of Delay and Crosstalk in Non Linear RLC Interconnects for Ultra Low Power Applications" in proceedings of IEEE International Conference on Modeling and Simulation, (UKSim-2013), Cambridge, United Kingdom, April 10-12, 2013. (DOI 10.1109/UKSim.2013.143)
7. J.V.R. Ravindra, M.B. Srinivas, "Performance modeling of high speed VLSI interconnects", in proceedings of Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics 2010 (PrimeAsia'10), September 22-24, Shanghai, China.
8. J.V.R. Ravindra, M.B. Srinivas, "Efficient Model Order Reduction Technique using Subspace Iteration Scheme for Linear Time-Varying RLC Circuits" in proceedings of 11th Euromicro Conference on Digital System architectures, Methods and Tools (DSD 2008), September 3-5, 2008, University of Parma, Parma, Italy.
9. J.V.R. Ravindra, M.B. Srinivas, "Reduced-order Modeling of High Speed VLSI Interconnects using Static Superelement Technique for Nano Meter Designs" in proceedings the IEEE/ACM International Symposium on Nanoscale Architectures (NANO-ARCH), June 12-13, 2008, Anaheim, CA, USA. (Co-located with the 45th Design Automation Conference (DAC 2008))
10. J.V.R. Ravindra, M.B. Srinivas, "Static Superelement Technique based Model Order Reduction for High Speed Nanometer Designs" in proceedings of the 8th IEEE International Conference on Nanotechnology (IEEE NANO), Aug 18-21, 2008, Texas, USA.
11. J.V.R. Ravindra, M.B. Srinivas, "Generating Reduced Order Models for High Speed VLSI Interconnects using Balancing-Free Square Root Method" in proceedings of 12th IEEE Workshop on Signal Propagation on Interconnects (SPI 2008). May 12-15, 2008 Avignon, Popes Palace, France. (IEEE Computer Press).

12. J.V.R.Ravindra, M.B.Srinivas, "Generic Sub-Space Algorithm for Generating Reduced Order Models of Linear Time Varying VLSI Circuits", in proceedings of 18th ACM Great Lakes Symposium on VLSI (GLSVLSI), pp. 111-114, May 4-6, 2008.
13. J.V.R.Ravindra, M.B.Srinivas, "Modeling of Full-Wave High Speed on Chip RLC Interconnects using Frequency Shift Technique" in proceedings of 9th IEEE Electronics Packaging Technology Conference (EPTC 2007), December 10-12, 2007.
14. J.V.R.Ravindra, M.B.Srinivas, "Model Order Reduction for RLC Interconnects using Response Dependent Condensation" IEEE Region 10 conference TENCON 2007, October 30-November 2, Taipei, 2007.
15. K. S. Sainarayanan, C. Raghunandan, J. V. R. Ravindra, M. B. Srinivas, "Bus Coding to Minimize Redundant Bit Transitions" IEEE Region 10 Conference TENCON 2007, October 30-November 2, Taipei, 2007.
16. J.V.R.Ravindra, SandeepSaini, AvinashShukla, M.B.Srinivas, "Sign Extension Based Method Low Power Fast Fourier Transform" in Proceedings of IEEE International Conference on SOC (ISOCC 2007), October 17-19, 2007.
17. J.V.R.Ravindra, M.B.Srinivas, "Response Dependent Condensation Based macromodeling for Linear Time Varying High Speed VLSI Interconnects" in Proceedings of 7th IEEE International Symposium on Communications and Information Technologies (ISCIT 2007), October 16-19, 2007.
18. J.V.R.Ravindra, SandeepSaini, M.B.Srinivas, "A Low- Power, High Speed, Asynchronous VLSI Architecture for FIR Filters", in proceedings 13th IEEE International Symposium Integrated Circuits (ISIC 2007), September 26-28, Singapore, 2007. (Accepted but not Published)
19. J.V.R.Ravindra, M.B.Srinivas, "Generating Reduced Order Models using Subspace Iteration for Linear RLC Circuits in Nanometer Designs" in ACM SIGARCH /SIGMICRO 2nd International Conference on Nano-Networks (Nano-Net 2007), September 24-26, 2007.
20. J.V.R.Ravindra, M.B.Srinivas "Modeling and Analysis of Crosstalk for Distributed RLC Interconnects using Difference Model Approach", ACM SIGDA 20th Symposium on Integrated Circuits and System Design (SBCCI 2007), September 3-6, pp. 207-211, September, 2007, Copacabana, Rio de Janeiro, Brazil.
21. J.V.R.Ravindra, M.B.Srinivas, "Model Order Reduction Techniques for Nonlinear and Time Varying High Speed RLC Interconnects" session on Work in Progress (WiP) 2007, In connection with 10th EUROMICRO CONFERENCE on DIGITAL SYSTEM DESIGN Architectures, Methods and Tools (DSD 2007), pp. 18-19, August 27 - 31, 2007, Lubeck, Germany.
22. J.V.R.Ravindra, M.B.Srinivas, "A Statistical Model for Estimating the Effect of Process Variations on Delay and Slew Metrics for VLSI Interconnects", in proceedings of 10th Euromicro Conference on Digital System Design Architectures, Methods and Tools (DSD 2007), pp. 325-330, August 27 - 31, 2007, Lubeck, Germany.
23. K.S.Sainarayanan, J.V.R.Ravindra, C Raghunandan and M B Srinivas, "Coupling Aware Energy-Efficient Data Scrambling On Memory-Processor Interfaces," in 2nd IEEE International Conference on Industrial and Information Systems (ICIIS 2007), August 8-11, 2007, University of Peradeniya, Sri Lanka.
24. J.V.R.Ravindra, M.B.Srinivas, "Delay and Skew Analysis of VLSI Interconnects using Difference Model Approach" in Joint Conference on 50th IEEE Mid West Symposium on Circuits and Systems (MWSCAS) and 5th North East Symposium on Circuits and Systems (NEWCAS 2007), August 5-8, 2007, Montreal, Canada.
25. J.V.R.Ravindra, M.B.Srinivas, "Analytical Crosstalk Model with Inductive Coupling in VLSI Interconnects" in proceedings of 11th IEEE Workshop on Signal Propagation on Interconnects (SPI 2007) May 13-16, 2007 Ruta di Camogli (Genova), Italy.
26. J.V.R.Ravindra, NavyaChittravu, M. B. Srinivas, "Energy Efficient Spatial Coding Technique for Low Power VLSI Applications" The 2006 International Workshop on System-on-Chip (IWSOC-2006), Dec 27-29, 2006.
27. K.S.Sainarayanan, J.V.R.Ravindra, Kiran T. Nath, M.B.Srinivas, "Coding for Minimizing Energy in VLSI Interconnects" in Proceedings of 18th IEEE International Conference on Microelectronics (ICM 2006), pp. 166-169, 16-19 December, Dhahran, Saudi Arabia.
28. K.S.Sainarayanan, C.Raghunandan, J.V.R.Ravindra, M.B.Srinivas, "Efficient Spatial-Temporal Coding Schemes for Minimizing Delay in Interconnects" in Proceedings of IEEE

TENCON 2006, pp. 515-518, 14-17 November, Hong Kong. 29. K.S.Sainarayanan, C.Raghunandan, J.V.R.Ravindra, M.B.Srinivas, "Modified Area Efficient Temporal Coding Technique for Delay Minimization on VLSI Interconnects" in proceedings of IEEE International Conference on SOC (ISOC- 06). October 2006, Seoul, Korea. 30. J.V.R.Ravindra, K. S. Sainarayanan, M. B. Srinivas, "A Novel Low Power Bus Encoding Technique for Minimizing RGB Transitions for LCD Display of Digital Camera" 10th IEEE VLSI Design and Test Symposium 2006 (VDAT-2006) pp. 205-214, August 9 -12, 2006, Goa, India. 31. K. S. Sainarayanan, J.V.R.Ravindra, M. B. Srinivas "A Low Power Overhead Bus Coding Technique for Minimizing Inductive Crosstalk in VLSI Connectors" SIGDA 15th Inter. Workshop on Logic & Syn. (IWLS), June 7-9, 2006, Vail, Colorado, USA. 32. K. S. Sainarayanan, J.V.R.Ravindra, M. B. Srinivas, "A Novel Coupling Driven Low Power Bus Coding Technique for Minimizing capacitive Crosstalk in VLSI Interconnects", IEEE International Symposium on Circuits and Systems (ISCAS- 2006), pp 4155-4158, May 21-24, 2006, Island of Kos, Greece. 33. K.S. Sainarayanan, J.V.R.Ravindra, M. B. Srinivas, "Minimizing Simultaneous Switching Noise (SSN) using Modified Odd/Even Bus-Invert Method" In 3rd IEEE International Workshop on Electronic Design, Test and Applications(DELTA- 2006), January 2006. 34. J. V.R.Ravindra, K. S. Sainarayanan, M. B. Srinivas, "An Efficient Power Reduction Technique for Low Power Data I/O for Military Applications", In Proc of 24th Digital Avionics Systems Conference, October 2005. 35. K. S. Sainarayanan, J.V.R.Ravindra, M. B. Srinivas, "A Novel Deep Sub-micron Low Power Bus Coding Technique", In Proc. of International Association of Science and Technology for Development. October 2005. 36. K.S.Sainarayanan, J.V.R.Ravindra, M.B.Srinivas, "An Efficient Power Reduction Technique for Low Power Data I/O Using Gray Code" in proceedings of IEEE International Conference on Applied Electronics (AE-2005), pp 289-292, September 2005, Pilsen, Czech Republic. 37. J.V.R.Ravindra, K. S. Sainarayanan, M. B. Srinivas, "EDGE: Encoding and Decoding of Generic Data for Minimizing Switched Capacitance and Transition Density for Low Power VLSI Applications" In IEEE International Conference on SOC. October 2005. 38. J.V.R.Ravindra, K. S. Sainarayanan, M. B. Srinivas, "A Novel Bus Coding Technique for Low Power Data Transmission" In IEEE Symposium on VLSI Design and Test Conference (VDAT-2005), pp 263-266, August 2005.	Dr. K. Harikrishna 1. Published a Journal Paper in International Journal of Electronic Science and Technology, titled "FPGA Implementation of FFT Algorithm for OFDM based IEEE 802.16d (Fixed WiMAX) Communications" Vol 8, No 3, September 2010. 2. Published a Journal Paper in International Journal of Computer Theory and Engineering, titled "FPGA Implementation of FFT Algorithm for IEEE 802.16e (Mobile WiMAX)", vol. 3, no. 2, pp. 197-203, April 2011. 3. Published a Journal Paper in International Journal of Electronics and Communication Engineering and Technology, titled "An Efficient Radix-22 FFT for Fixed & Mobile WiMAX Communication Systems", Volume 3, Issue 3, pp. 265-279, October-December 2012. 4. Published and presented a paper titled "A HIGH LEVEL IMPLEMENTATION OF A PIPELINEFFT FOR UWB APPLICATIONS" at National Conference on Microelectronics and Communication. NCMEC 2009. 8th April 2009 to 9th April 2009. SRM University, Chennai. 5. Published and presented a paper titled "A Radix-22 Pipeline FFT for Ultra Wide Band Technology" in the International Conference on computer and Network Technology(ICCNT 2009)" IN Chennai, India, Organized by International Association of computer science and Information Technology(IACSIT), during July 24-26 ,2009 6. Presented and published a short paper titled " An Efficient FFT Architecture for OFDMCommunication Systems", in the International Conference on "Advances in Recent Technologies in Communication and computing ,ART Com 2009", which is organized by the Association of Computer Electronics and Electrical Engineers (ACEEE)- a division of Engineers Network- and technically co-sponsored by the IEEE- Computational Intelligence Society , during October 27-28,2009 . The conference proceedings were published by IEEE CS-Conference Publishing Services and it was archived in the IEEE Xplore and IEEE CS Digi-
---	---

tal Library.

7. Presented and published a full paper titled "A Efficient FFT Architecture for OFDM Communications Systems" in the International Asia-Pacific Microwave Conference 2009(APMC 2009), held in Singapore and Organized and published by IEEE, during December 7-10, 2009.
8. Attended an International Workshop on "Recent Advances in Microwave and Optical Communication Technology" on 21 December 2009, organized by the Department of Telecommunication Engineering, SRM University, in association with ISMOT and IETE.
9. Published a research paper titled "An FFT Approach for Efficient OFDM Communication Systems" in The 2010 International Conference on Signal Acquisition and Processing (IC-SAP 2010), Bangalore 9-10 February 2010, organized by IACSIT, Singapore. The proceedings are listed in IEEE Xplore, and Thomson ISI and Ei Compendex.
10. Published a research paper titled "FPGA based FFT Algorithm Implementation in WiMAX communication system" in 2nd International Conference - Wireless Vitae 2011, proceedings to be published by IEEE, Feb-March 2011.

Mr. S. Rajendar

1. B U V Prashanth, C Padmini, S Rajendar, "Design and Implementation of a Floating Point ALU on a STRATIX – III FPGA", International Journal of Computer Applications, Volume 55, No. 2, October 2012.
2. G Kalyan Chakravarthy, M Nagarjuna, S Rajendar, "Reduction of Soft Error Tolerance using ABMM", International Conference on Electronics and Communication Engineering, ICECE – 2012, GNI Institutions, Hyderabad, 2012.
3. K Sruthi Divya, S Rajendar, "VLSI Implementation of parallel and Asynchronous Decoder for Wireless Communication Applications", AICTE & DRDO Sponsored National Conference on Signal Processing and Embedded Systems Applications, Hyderabad, pp. 323-330, 2011.
4. K J Arvind Chary, S Rajendar, "Schmitt Trigger Insertion for High Performance and Low Power VLSI Interconnects", AICTE & DRDO Sponsored National Conference on Signal Processing and Embedded Systems Applications, Hyderabad, pp. 499-505, 2011.
5. B Abhishek, S Rajendar, "Modified Glitch Free Adiabatic Circuit Design Approach for Low Power Applications", AICTE & DRDO Sponsored National Conference on Signal Processing and Embedded Systems Applications, Hyderabad, pp. 552-559, 2011.
6. Priyanka, S Rajendar, "Design and implementation of Digital Down Converter for Software Defined Radio", AICTE & DRDO Sponsored National Conference on Signal Processing and Embedded Systems Applications, Hyderabad, 2011.
7. Anees Pasha, S Rajendar, "Improved Frequency Domain Receiver Algorithm for LTE SC FDMA Based Uplink MIMO System", National Conference on Signal Processing and Communications, Hyderabad, 2010.
8. I Pavani Prapurna, S Rajendar, "Spread Spectrum Based Spatial Domain Invisible Watermarking Algorithm for Still Images", National Conference on Signal Processing and Communications, Hyderabad, 2010.
9. S Rajendar, Y Rajasekhar Reddy, B K Madhavi, "Analysis of CMOS Steady State Non-ideal Electrical behavior of Coupled VLSI interconnects" National Conference on Recent Trends in Communication Technologies and VLSI Design, Hyderabad, 2010.
10. M V Sireesha, G Vinod Reddy, S Rajendar, "FPGA Implementation of Time Sliced Multi Channel UART Core to Reduce CPU Overhead", National Conference on Recent Trends in Communication Technologies and VLSI Design, Hyderabad, 2010.
11. S Rajendar, Y Pandu Rangaiah, "Circuit Model Simulation of carbon Nanotube Bundles for VLSI Interconnects and Vias", National Conference on Nanomaterials, Applications and Nanotechnology Developments, Hyderabad, 2009.

Mrs. A. Vijaya Lakshmi

1. "Adaptive code allocation for interference management in CDMA systems" – A. Vijaya Lakshmi, V. Sri Lakshmi Sowmya, International conference ASECI-2010, held on Jan 6 & 7th 2010, organized by V. R. Siddhartha Engineering college, Vijayawada.
2. "Code allocation for interference reduction in wireless Systems" – A. Vijaya lakshmi, M. Gopi Krishna, National Conference on Signal processing and Communication

Systems, held on 25 th Feb 2010, organized by ECE dept, RVR& JC College of Engg., Guntur.
Mr. J. Krishna Chaitanya 1. J. Krishna Chaithanya, Dr.T.Ramashri"Feature Extraction of Satellite Images Using 2D Phase Congruency Measure", International Conference on Innovation in Electronics & Communications Engineering, GNI, Hyderabad, India, pp. 125-130, 2012. 2. J. Krishna Chaithanya, Dr.T.Ramashri"Feature Extraction of Satellite Images Using 2D Phase Congruency Measure", International Journal of Emerging Technology and Advanced Engineering, Volume 3 Issue 1, pp. 84-89, 2013. 3. J. Krishna Chaithanya, Dr.T.Ramashri"Feature Extraction of Satellite Images Using CNLS Algorithm", International Conference on Computational Intelligence & Engineering Applications, Inter Science Research Network, Tirupati, India, pp.44-49, 2013.
Mr. Shaik Basha 1. A Paper on "Segmentation of Histogram Based Clusters in Different Color Models By Fusion" is presented in a National Conference on Information processing, Communication networks&Embedded systems NICE-2010 during 22nd-23rd Dec 2010 in Acharya College Of Technology, Bangalore. 2. A Paper on "Fusion Based Segmentation using Color Spaces" is presented in National Conference on "Signal Processing & Embedded Systems Applications" from 8th to 10th July 2011 in CMR College of Engineering & Technology, Hyderabad.
Mr. K. Shridhar Reddy 1. Satish Kumar V, Sridhar Reddy K, Maheswarareddy K, Ashok Kumar K "Design approach of throughput improvement for cellular network", "IEEE International Conference on Devices, Circuits and Systems", ICDCS-MARCH'2012 2. SATISH KUMAR V1 M.Tech(DE&CS), JYOTHY A2 M.Tech(DE&CS), SRIDHAR REDDY K3 M.Tech (ES), MAHESWARAREDDY KYPU4 M.Tech (ES)." Design approach of intercellular interference Management for future mobile communications", "IEEE International Conference on Computational Intelligence and Computing Research, ICCIC-DEC'2011.
Mr. T. Rama Krishnaiah 1. Kanugadda Peter Samson, T. Ramakrishnaiah Department of ECE, "Multi Scale Approximation Decomposition for Image Resolution Enhancement", International Journal of Advanced Engineering Technologies, Vol1-Issue1-2013. 2. T. Ramakrishnaiah, Dr Srinivasulu Tadisetty, "Text Extraction in Video Using Discrete Wavelet Transforms", International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2012), July 2012, GNI, Hyderabad. 3. Uday Prakash Pethakamsetty, T. Ramakrishnaiah, "Bandwidth Utilization in Mobile Wi-max Networks", International Conference on Advanced Computing Methodologies ICACM – 2011, GRIET, Hyderabad, pp.92-96, 2011 4. B. Prathibha Manoja, T. Ramakrishnaiah, "A Centralized Monitoring Scheme Using Load Matrix for Cellular Communications", National Conference on Emerging Trends in Communications and Signal Processing, NCECS-2011, Aurora Seethaiah College of Engineering, IDA, Patancheru, Hyderabad.
Ms. C. Padmini 1. Prashanth B. U. V, C. Padmini, S. Rajendar, "Design and Implementation of a Floating Point ALU on a Stratix – III FPGA", International Journal of Computer Applications, DOI: 10.5120/8731-2610 Vol – 55, No.2, October, 2012. 2. C. Padmini, G. Bhaskar Phani Ram, Venkat B Prashanth, "An Innovative VLSI algorithm Design Technique to reduce Leakage Current in CMOS VLSI Circuits", International Journal of Advances in Electrical & Electronics Engineering, ISSN: 2319-1112, Vol-1, No. 2, October, 2012. 3. Venkat .B. Prashanth, C. Padmini, Eliyaz Mohammed, G. Bhaskar Phani, "Wireless Measurement System using Zigbee Transmission implemented on TES", International Journal of Advances in Electrical & Electronics Engineering, ISSN: 2319-1112, Vol. 2, No. 1.
Mrs. M. Srilatha 1. M. Srilatha, P.L.Deepthi "Segmentation Techniques For Image Processing", 2nd World Conference on Applied Sciences, Engineering and Technology, Gitam University,

Hyderabad, pp. 91, 2013.
Mr. M. Veeraswamy 1. M. Veeraswamy, "Medical Radiographs Compression Using Neural Networks and Cosine Transform", National Conference on Emerging Trends in Electronics & Communication Engineering on 1st April 2011. 2. M. Veeraswamy, "Medical Radiographs Compression Using Neural Networks and Haar Wavelet", 2nd World Conference on Applied Sciences, Engineering & Technology ,Hyderabad,pp.102,2013 3. M. Veeraswamy, Aravind Babu, "An Improved Image Fusion Scheme Based on Markov Random Fields with Image Enhancement Scheme" 2nd World Conference on Applied Sciences,Engineering & Technology ,Hyderabad,pp.77,2013 4. M Veeraswamy, Sorupaka Manmeeth, "Adaptive Steganalysis of Least Significant Bit Replacement in Grayscale Natural Image" 2nd World Conference on Applied Sciences, Engineering & Technology ,Hyderabad,pp.88,2013
Mr. Eliyaz Mohammed 1. Venkat .B. Prashanth, C. Padmini, Eliyaz Mohammed, G. Bhaskar Phani Ram, "An Innovative VLSI Algorithm Technique To Reduce Leakage Current In CMOS VLSI Circuits" IJAEEE volume 1,pp.151-157.
Mr. G. Bhaskar Phani Ram 1. C.Padmini,G.Bhaskar Phani Ram,Venkat .B. Prasanth, "Wireless Measurement System using Zigbee Transmission Implemented using TES", International Journal of Advances in Electrical and Electronics Engineering(IJAEEE), Volume 2 Number 1, pp. 151-157, 2013. 2. Venkat .B. Prashanth, C. Padmini, Eliyaz Mohammed, G. Bhaskar Phani Ram, "An Innovative VLSI Algorithm Technique To Reduce Leakage Current In CMOS VLSI Circuits" IJAEEE volume 1,pp.151-157.
Mr. M. Nagarjuna 1. G KalyanChakravarthy, Nagarjuna M, S Rajendar, "Reduction of Soft Error Tolerance Using ABMM", International Conference on Innovation in Electronics and Communication Engineering (ICIECE – 2012). 2. G KalyanChakravarthy, Nagarjuna M, V Ramakrishna, "A Novel Bus Encoding Scheme for Reducing Switching Activity in VLSI Interconnects", International Journal of Communication Applications, pp.484 - 487, 2012.
Mr. G. Kalyan Chakravarthy 1. G. kalyan Chakravarthy, S. Rajender, " Reduction of Soft Error Tolerance Using ABMM" , Published in the Proceedings of 1st International Conference on "Innovation in Electronics and Communication Engineering (ICIECE-2012)" on 20th & 21st July 2012. 2. G. kalyan Chakravarthy, M. Nagarjuna, V. Ramakrishna "A Novel Bus Encoding Scheme for Reducing Switching Activity in VLSI Interconnects" Published in the International Journal of Communication Engineering Applications (IJCEA) ISSN: 2230-8520, e-ISSN: 2230-8539, Vol 03-Issue 02, page number 484-487, May-June 2012. 3. G. kalyan Chakravarthy, "FPGA Implementation of Controller Design for Remote Sensing Systems" Presented in the International Conference on " VLSI, MEMS & NEMS" at Amity University, Noida, on 24th & 25th January 2012.
Mr. Prashanth B.U.V. 1. Prashanth B.U.V. Article: Design and Implementation of Wireless Energy Meter System for Monitoring the Single Phase Supply. <i>International Journal of Computer Applications</i> 41(2):26-29, March 2012. Published by Foundation of Computer Science, New York, USA.DOI >10.5120/5514-7511. <i>Impact Factor</i>: - 0.83 2. Prashanth B U V, C Padmini and S Rajendar. Article: Design and Implementation of a Floating Point ALU on a STRATIX-III FPGA. <i>International Journal of Computer Applications</i> 55(2):48-50, October 2012. Published by Foundation of Computer Science, New York, USA DOI >10.5120/8731-2610. <i>Impact Factor</i>: - 0.83 3. Prashanth B.U.V, P.Anil Kumar and G.Srinivasulu, " Design & Implementation of Floating point ALU on a FPGA Processor" , The 2012 IEEE International Conference On Computing, Electronics & Electrical Technologies(ICEET-2012), March 22nd -24th 2012.Published in

IEEE Digital Explore online edition March2012.IEEECatalogNo.:CFP1276R-CDR, DOI> 10.1109/ICCEET.2012.6203790 4. Prashanth B.U.V. Article: Implementation of FIR Filter and FFT Systems on a STRATIX-III FPGA Processor. <i>International Journal of Computer Applications</i> 39(3):16-19, February 2012. Published by Foundation of Computer Science, New York, USA. DOI> 10.5120/4799-7018 Impact Factor: - 0.83 5. Venkata Subbaiah Kotakadi, Gaddam Susmila Aparna Prashanth B.U.V and Sai D V R Gopal. Article: Computer Aided Molecular modeling approach of H & E (Haemotoxylin & Eosin) images of Colon Cancer. <i>International Journal of Computer Applications</i> 44(9):5-8, April 2012. Published by Foundation of Computer Science, New York, USA DOI> 10.5120/6289-8480 Impact Factor: - 0.83 6. Udaya Kumar Naluguru, Dr.T.Ramashri and Prashanth B.U.V, "A MATLAB Based Algorithm Design for New Structural Feature of Retinal Image Vasculature Pattern" Published in International Journal of Electronics and Computer Science Engineering ISSN 2277-1956/V2N1-27-31. 7. Venkat .B. Prashanth, C. Padmini, Eliyaz Mohammed, G. Bhaskar Phani Ram, " An Innovative VLSI Algorithm Design Technique To Reduce Leakage Current In CMOS VLSI Circuits", International Journal of Advances in Electrical and Electronics Engineering ISSN: 2319-1112/V1N2: 151-157 (PP-151-157) 8. Prashanth B.U.V and Udaya Kumar Naluguru "Development of High Data Rate Active Optical Cable up to 100 m Distance Through Optical Coupling Elements" Published in JOURNAL OF INNOVATION IN ELECTRONICS & COMMUNICATIONS(JIEC),ISSN: 2249-9946,Volume2-Issue2 JAN 21St 2012. 9. P.Anil Kumar, Prashanth B.U.V and Dr. G.Srinivasulu "Design & Development Of User Interface (UI) for S3C2440 (ARM920T CORE) Processor Based Devices In WinCE5.0 RTOS "Published in JOURNAL OF INNOVATION IN ELECTRONICS & COMMUNICATIONS (JIEC), ISSN: 2249-9946, Volume 2-Issue2, JAN 21St 2012. 10. Udaya Kumar Naluguru, Dr.T.Ramashri and Prashanth B.U.V "Color Segmentation Based Staining Method Used In Biomedical Applications" Published in JOURNAL OF INNOVATION IN ELECTRONICS & COMMUNICATIONS (JIEC), ISSN: 2249-9946, Volume 2-Issue 2, JAN 21St 2012.	Ms. K. Latha 1. M Devadas, K.Latha "Design of High performance On-Chip bus OCP-IP Protocol with Advanced Bus Functionalities" International Journal of Advances in Electronics Engineering, ICACCN'11,Chandigarh, pp .253-258
Ms. P. L. Deepthi 1. P.L.Deepthi, Lalbabu Prasad, Mrs.G.Anitha, Prof. P. Mallikarjuna Rao, Dr.K.S.Ranga Rao "On The Different Techniques of Radar Image Processing and Improvement in Range Resolution - An Overview" National conference on Advances in Communication, Navigation & computer Networks (ACNCB-2012) march 17-18, 2012 Andhra University college of Engineering, Visakhapatnam, Andrapradesh, India 2. Lakshmi Deepthi, P; Anitha, G and Kiranmai. 2012. Motion Compensation Technique For Isar Imaging Based On Image Processing and Time Frequency Analysis. Paper presented in National conference on Advances in Communication Technologies (NCACT' 12) held during 9-10 January 2012 at GITAM University, Visakhapatnam. 3. M.Srilatha, P.L.Deepthi "Segmentation techniques for image processing" Paper presented in 2nd World conference on Applied sciences, Engineering and technology (WCSET 13) held during 8-9 March 2013 at GITAM University, Hyderabad. 4. P.L.Deepthi, K. Swathi "An Efficient role of multi-core Embedded Processors (MCEP) in monitoring and controlling the train parameters" Paper presented in 2nd World conference on Applied sciences, Engineering and technology (WCSET 13) held during 8-9 March 2013 at GITAM University, Hyderabad. 5. P.L.Deepthi, K. Swathi "Motion compensation algorithms for Radar Image processing" Paper presented in 2nd World conference on Applied sciences, Engineering and technology (WCSET 13) held during 8-9 March 2013 at GITAM University, Hyderabad.	Ms. K. Swathi 1. K Swathi , P L Deepthi "An Efficient role of Multicore Embedded processors in controlling

and monitoring Train Parameters”, 2 nd World conference on Applied Sciences, Engineering and Technology, WCSET’13.
2. P L Deepthi ,K Swathi , “Motion Compensation Algorithms for Radar Image Processing”, 2 nd World conference on Applied Sciences, Engineering and Technology, WCSET’13.

- * Number of papers published in peer reviewed journals (national / international) by faculty and students : **28**
- * 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.) : **28**
- * Books with ISBN/ISSN numbers with details of publishers

Prof. Y. Pandu Rangaiah
1. Y Pandu Rangaiah, S Rajendar, “Electronic Devices and Circuits”, Students Helpline Publishing House (P) Ltd., Hyderabad, 2013.
Dr. J. V. R. Ravindra
1. Signals and Systems—SPITECH Publishers (2004)
2. TV Engineering – SPITECH Publishers (2002)
Mr. S. Rajendar
1. Y Pandu Rangaiah, S Rajendar, “Electronic Devices and Circuits”, Students Helpline Publishing House (P) Ltd., Hyderabad, 2013.

19. Areas of consultancy and income generated: **NIL**

20. Faculty as members in

a) National committees : **NIL**

b) International Committees: **NIL**

c) Editorial Boards....

1. Dr. K. Harikrishna is Editorial Review Board member of “International Journal of Computer and Electrical Engineering (IJCEE)”.
2. Dr. K. Harikrishna is Editorial Review Board member of “International Journal of Computer Theory and Engineering (IJCTE)”.
3. Dr. K. Harikrishna is Editorial Review Board member of “International Journal of Engineering and Technology (IJET)”.

22. Student projects

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

88 % of the students have done their projects in-house

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

12% of the students have done their project at DLRL, HAL, RCI, BDL.

23. Awards/ Recognitions received by faculty and students:

Faculty: NIL

Students:

S.No	Name of The Candidate	Name of event	Host Organization	Prize
1	M.Pranathi	SRUJANA '13	MLR College of Technology	1 st
2	B.Vamshi Krishna	SRUJANA '13	MLR College of Technology	1 st
3	M.Sandeep Goud	SRUJANA '13	MLR College of Technology	1 st

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

S. No	Title of the Programme	Resource Persons	Date of the Event	Target Audience	No. of students attended
2012 – 2013					
1	Management and Spirituality	Mr. Khurshed Batiwala	27 th February 2013	400	375
2	Soft Skills	Mr. Murali Krishna	1 st December 2012	215	180
2011 – 2012					
1	Video Session on VLSI Lecture 10	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	11 April 2012	120	116
2	Video Session on VLSI Lecture 9	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	9 April 2012	120	116
3	Video Session on VLSI Lecture 8	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	4 April 2012	120	116
4	Video Session on VLSI Lecture 7	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	3 April 2012	120	116
5	Video Session on VLSI Lecture 6	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	2 April 2012	120	116
6	Video Session on VLSI Lecture 5	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	30 March 2012	120	116
7	Video Session on VLSI Lecture 4	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	29 March 2012	120	116
8	Video Session on VLSI Lecture 3	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	28 March 2012	120	116
9	Video Session on VLSI Lecture 2	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	26 March 2012	120	116
10	Video Session on VLSI Lecture 1	Prof Rucinski <i>Professor of Electrical and Computer Engineering</i> University of New Hampshire	21 March 2012	120	116
11	Video Session on Analog Communications Lecture 10	Prof S.Ramesh Dean, College of Engineering & Computer Science, California University, Northridge, USA	22 March 2012	120	119
12	Video Session on Analog Communi-	Prof S.Ramesh Dean, College of Engineering &	21 March 2012	120	119

	cations Lecture 9	Computer Science,California University,Northridge,USA			
13	Video Session on Analog Communi- cations Lecture 8	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	19 March 2012	120	119
14	Video Session on Analog Communi- cations Lecture 7	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	16 March 2012	120	119
15	Wireless medicine	Dr.Srinivas Raghavan, CASE WESTERN RESERVE UNI- VERSITY	15 March 2012	120	119
16	Video Session on Analog Communi- cations Lecture 6	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	14 March 2012	120	119
17	Video Session on Analog Communi- cations Lecture 5	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	12 March 2012	120	119
18	Video Session on Analog Communi- cations Lecture 4	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	7 March 2012	120	119
19	Video Session on Analog Communi- cations Lecture 3	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	5 March 2012	120	119
20	Video Session on Analog Communi- cations Lecture 2	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	29 February 2012	120	119
21	Video Session on Analog Communi- cations Lecture 1	Prof S.Ramesh Dean,College of Engineering & Computer Science,California University,Northridge,USA	29 February 2012	120	119
22	Continuous Educa- tion and long Vi- sion	Mr. S. N. C. Srinivasan HR, HSBC	9 th March, 2012	350	342
23	Microprocessors and Microcontrol- lers	Dr. M. Asha Rani, Professor, ECE, JNTU, Hydera- bad31	January 2012	100	80
24	Opportunities and Options in Soft- ware arena	Mr. Swaminath (convergeys)	4 th Dec, 2011	220	200
25	SPANDANA	Dr. D. N. Reddy (VC JNTUH)	19 th Septem- ber, 2011	420	400
26	SANKALP	Mr. Nageswaran (Cognizant)	27 th Ju- ly,2011	425	420
2010 – 2011					
1	Professional Car- rier Xpress	Ms.Swetha (TCS)	14 th March,2011	180	169
2	Systematic carrier Guidance(SCG)	Mr.Venkatsankarnarayanan (HR,Syntel)	23 rd Sep,2010	320	318
3	UNNATHI	DR.Patabhraman, (TCS)	24 th June, 2010	180	174

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National

S.No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
1	ISTE CHAPTER	Technolites 2k12	13-14 October 2012	--	125
2	ISTE CHAPTER	ARM Processor	17 November 2012	10	--
3	ISTE CHAPTER	A One Day Lecture on PSOC	27 November 2012	15	--
4	ISTE CHAPTER	CNT-13	13-14 February 2013	--	100
5	ISTE CHAPTER	Project Expo-13	16 March 2013	--	130
2011– 2012					
1	ISTE CHAPTER	Best Seminar presentation for Final Years	9-Apr-12	--	120
2	ISTE CHAPTER	Technolites 2K11	29-30 October 2011	10	100
3	ISTE CHAPTER	E-clats 2k11	12-Aug-11	-	124
4	ISTE CHAPTER	INDO –US Faculty Leadership Inst	02-03 August 2011	5	40
2010 – 2011					
1	ISTE CHAPTER	Semiconductor Technology from Si, Ge to Hafnium	9-Apr-11	14	126
2	ISTE CHAPTER	Technolites 2K10	08-09 October 2010	8	86
3	ISTE CHAPTER	Workshop on Active Research, WAR 2010	15 Sep, 2010	34	12
4	IEEE CHAPTER	One Day Lecture on “Talk on Innovation”	20-Aug-10	12	476
5	ISTE CHAPTER	Embedded Systems	26-Jun-10	-	65

b) International : **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Tech (ECE)					Not applicable
M. Tech – WMC					Not applicable
M. Tech – DECS					Not applicable
M. Tech - ES					Not applicable

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech (ECE)	100%	0%	0%
M. Tech – WMC	100%	0%	0%
M. Tech – DECS	100%	0%	0%
M. Tech - ES	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket No	Examination	Rank or Score Secured
1	M. Arjun	EC1174604	Gate - 2012	350
2	A. Sandeep Rao	J1249598	IELTS - 2012	6.0
3	Anna Sai kiran	EC1170270	Gate-2012	404

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	35 %	21 %	10 %
PG to M. Phil	0 %	0 %	0 %
PG to Ph.D.	N / A*	9 %	6 %
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	21	58	91
• Other than campus recruitment	30	42	12
Entrepreneurship/Self-employment			

*N/A: Not Applicable

30. Details of Infrastructural facilities:

a) Library

Vardhaman central library is having 9851 number of titles, 53722 number of volumes exclusively for ECE students and staff out of 1527 number of total titles, 9508 number of total volumes.

Apart from the above facility Department is having a separate departmental library facility for staff with 423 number of titles, 423 number of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department. Also all the laboratories are equipped with LCD projects.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
Microwave Engineering Lab - I	Exclusive	71 Sq. M 36 Students /slot Experimental setup	12+2*	Good	Available
Microwave Engineering Lab - II	Exclusive	71 Sq. M 36 Students /slot Experimental setup	12+2*	Good	Available
VLSI Lab	Exclusive	71.5 Sq. M	12+2*	Good	Available

		36 Students / slot 1 student per system			
Digital Signal Processing	Exclusive	71.5 Sq. M 36 Students / slot 1 student per system	12+2*	Good	Available
Microprocessor Lab	Exclusive	67.5 Sq. M 36 Students / slot 1 student per system	25+4*	Good	Available
Microcontrollers and Interfacing Lab	Exclusive	67.5 Sq. M 36 Students / slot 1 student per system	25+4*	Good	Available
Electronic Devices Lab - I	Exclusive	66 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Electronic Devices Lab - II	Exclusive	66 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Electronic Devices Lab - III	Exclusive	66 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Pulse and Digital Circuits Lab	Exclusive	81.6 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Analog and Digital Electronics Lab	Exclusive	100 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Analog Communications Lab	Exclusive	105 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Digital Communications Lab	Exclusive	104.6 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
IC Application Lab	Exclusive	70.5 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Simulation Lab	Exclusive	70.5 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available

1. Number of students receiving financial assistance from college, university, government or other agencies:

S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee	No. of students receiving financial assistance from central govern-
-------	------------------------------	------	---	---

			Reimbursement / Scholarship)	ment (Scholarship / Stipend)
1	B. Tech (ECE)	1 st	101	0
		2 nd	83	0
		3 rd	69	0
		4 th	61	0
	Total No. of B. Tech students		314	0
2	M. Tech – WMC	1 st	6	Nil
		2 nd	7	2
3	M. Tech – DECS	1 st	12	4
		2 nd	14	3
4	M. Tech - ES	1 st	6	2
	Total No. of M. Tech students		45	11
Total number of Students enjoying financial assistance			370	

- Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

The students are actively involved in all activities conducted by Technical Forums of the respective Departments besides participating in extra-curricular activities organized by NSS such as Blood Donation Camps, AIDS awareness programmes, Rural Health, Sanitation and Medical Camps. Also students enthusiastically participate in cultural events organized on important occasions like Freshers' Day, Graduation Day and Annual Day.

Students who have demonstrated their skills in Sports and Games are deputed to participate in Inter-collegiate and Inter-university tournaments.

Institutional Memberships

- College of Electrical and Electronics Engineers (IEEE)
- College of Engineers (India) - Life member
- Indian Society for Technical Education (ISTE)
- Computer Society of India (CSI)
- The Institution of Electronics & Telecommunication Engineers (IETE)
- Association for Computing Machinery (ACM)

Students Chapters of Professional Bodies

- Indian Society for Technical Education (ISTE)
- College of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

Technical Associations

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA – Computer Engineers Technical Association (CSE)
- ETA – Electrical Technical Association (EEE)
- VIVECA – Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT – Technical Association of Information Technology (IT)
- MACHINE – **Mechanical Association for Creating Highly Innovative Engineers**

National Level Student Technical Paper Contest relating to all branches, “**TECHNO-LITES**”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students' participation.

Orientation Day

At the time of admissions, orientation classes are arranged wherein the freshers and their accompanying parents are briefed about the College, facilities available and academic requirements. Matters pertaining to discipline, dress code, and regularity are highlighted and parents are invited to interact.

An exclusive Parents meet is arranged where in the Chairman of the Society and eminent personalities from different walks of life address the gathering. The parents interact with the faculty and Management on the occasion.

Fresher's Day

After completion of the admissions and soon after commencement of class work, senior students arrange "Get-together" and welcome the Fresher's to the campus.

Annual Day

The College Annual Day is celebrated in March every year on a grand scale. The colorful cultural activities are organized on that day.

Graduation Day

The college Graduation day is conducted in June every year. **Graduation** is the action of receiving or conferring an academic degree or the ceremony, where students become Graduates. The date of graduation is often called **degree day**.

Literary and Cultural Activities:

2012 – 2013			
S. No	Event	Venue	Date
1	ORTUS'13, Annual Day Celebrations	Vardhaman College of Engineering	02-03-13
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	01-03-13
3	Engineers Day Celebrations	Vardhaman College of Engineering	15-09-12
4	Teachers Day Celebrations	Vardhaman College of Engineering	05-09-12
2011 – 2012			
1	ORTUS'12, Annual Day Celebrations	Vardhaman College of Engineering	31-03-12
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	30-03-12
3	Dandiya Celebrations	Vardhaman College of Engineering	01-10-11
4	E-Clats-2k11 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	12-08-11
2010 – 2011			
1	ORTUS'11, Annual Day Celebrations	Vardhaman College of Engineering	19-03-11
2	Traditional Day Celebrations	Vardhaman College of Engineering	18-03-11
3	Dandiya Celebrations	Vardhaman College of Engineering	14-10-10
4	E-Clats-2k10 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	21-08-10

3. Teaching methods adopted to improve student learning
 - Higher usage of ICT: LCD/Web usage etc.,
 - Critical thinking assignments
 - Demonstration of mini and main projects
 - Expert lectures from industry professionals
4. Participation in Institutional Social Responsibility (ISR) and Extension activities

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

5. SWOC analysis of the department and Future plans

Strengths • Trust • A professional and competent team • Industry Expertise • Online journals subscription	Weaknesses • Lack of sophisticated equipment
Opportunities • Faculty expertise to secure funding. • Awareness in on-going research works • Geographic location to develop consultancy	Challenges • Getting qualified faculty • Retention of faculty

Evaluative Report of the Electrical and Electronics Engineering

1. Name of the department : **Electrical and Electronics Engineering**
2. Year of Establishment : **2002**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
B. Tech : Electrical Electronics and Engineering	M. Tech: Power Electronics and Electric Drives

4. Names of Interdisciplinary courses and the departments/units involved: **NIL**
5. Annual/ semester/choice based credit system (programme wise):

UG	PG
Semester Based	Semester Based

6. Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.

S. No	Course	Departments
1	Basic Electrical Engineering	CSE, IT, ECE, Mech, Civil, AE
2	Principles of Electrical Engineering	ECE
3	Elements of Electrical Engineering	CSE, IT
4	Electrical Technology	Mech,, AE, Civil
5	Electrical Engineering Lab	ECE,
6	Electrical and Electronics Engineering Lab	Mech, AE

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	3	3
Associate Professors	6	5
Assistant Professors	15	13

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

S No	Name	Qualification	Designation	Specilization	No. of Years of Experience
1.	Prof.D.Shobha Rani	M.Tech	Professor & HOD	Power Systems	14
2.	Dr. H S Jain	M.Tech., Ph. D	Professor	Electrical Engineer- ing	37
3.	Dr. Sai Rama	M.Tech., Ph. D	Professor	Power Systems	25
4.	Mr.T.C.Srinivasa Rao	M.Tech	Associate Professor	Power Systems High Voltage	14

5.	Mr.K.Hanumantha Rao	M.Tech	Associate Professor	Power Industrial Drives	11
6.	Mr.Md.Asif	M.Tech	Associate Professor	Electrical Power Systems	11
7.	Ms. K. Jyothi	M.Tech	Associate Professor	Electrical Power Engineering	9
8.	Mr. V.Sarath Babu	M.Tech	Associate Professor	Instrumentation and control system	9
9.	Mr.K.Damodar Reddy	M.Tech	Assistant Professor	Power Electronics	6
10.	Mr.K.Kalyan Kumar	M.Tech	Assistant Professor	Power Electronics	5
11.	Mr.N.Srinivas	M.Tech	Assistant Professor	Energy Systems	5
12.	Mr.G.Sandeep	M.Tech	Assistant Professor	Energy Systems	7
13.	Mr. A. Rama Krishna	M.Tech	Assistant Professor	Power Electronics	7
14.	Ms. A. Roopa	M.Tech	Assistant Professor	Power Systems and Automation	2
15.	Ms. D. Pavithra	M.Tech	Assistant Professor	Power Electronics	4
16.	Mr. R. Bhaskar	M.Tech	Assistant Professor	VLSI Design	1
17.	Mr. B. Ramu	M.Tech	Assistant Professor	Power Electronics and Industrial Drives	9
18.	Ms. N. Uma Maheswari	M.Tech	Assistant Professor	Power Electronics and Electric Drives	3
19.	Ms. K. Sravanthi	M.Tech	Assistant Professor	VLSI Design	1
20.	Ms. P. Harika	M.Tech	Assistant Professor	Power Electronics and Electric Drives	1
21.	Ms. Shital Vaidya	M.Tech	Assistant Professor	Industrial Drive and Control	8

11. List of senior visiting faculty:

Dr. B. V. Shankar Ram, Professor, JNTU College of Engineering, Hyderabad.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: No temporary faculty are in rolls

13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	20+4 from S & H (24 required)	360	1:15
M. Tech – PEED	3	18	1:12

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

	Sanctioned	Filled
Academic Support Staff	5	5
Administrative Staff	-	-

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

Qualification	No. of faculty
PG (ME / M. Tech)	20
Ph. D	3

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

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

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

19. Publications:

* a) Publication per faculty

Prof. D. Shobha Rani	
1.	D. Shobha Rani "Distribution Power System Reliability", National Power Engineering Conference- NPEC 2007, June, 2007.
2.	D. Shobha Rani "Obtaining a General Voronoi Diagrammatic Path for a Typical task planning application Problem", National conference on emerging Trends in Electrical Engineering & communications (ETEC-2012), February, 2012.
3.	D. Shobha Rani "Denavit- Hartenberg algorithm for jointed arm robots", National conference on emerging Trends in Electrical Engineering & communications (ETEC-2012), February, 2012.
4.	D. Shobha Rani "A 2-pass DH algorithm for obtaining the dynamic motion of a dynamical system", National conference on emerging Trends in Electrical Engineering & communications (ETEC-2012), February, 2012.
5.	T. C. Srinivasa Rao, D. Shobha Rani, K. Hanumanatha Rao, Md. Asif, "A New Topology for the Design and control of Uninterruptible Power Supply by Using Z-Source Inverter", International Journal of Power Electronics and Energy, Volume 5, June-2012, pp.201-216.
6.	D. Shobha Rani, Md, Asif, P. Harika "A SVC light based technique for power quality improvement for Grid connected wind energy system", IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013).
7.	Md. Asif, D. Shobha Rani ,T.C. Srinivasa Rao , K. Hanumanath Rao, " A Simulink Model for Emergency Power System and Electricity Market using Green Energy Technology", International Journal of Engineering and Technology Volume 2 No.8 August,2012, ISSN 2049-3444.
8.	Md, Asif, D. Shobha Rani, B. Ramu, P. Harika " Fuzzy Logic controller based effective energy management of composite energy storage system involving battery and ultra capacitor in microgrid" " IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013).
9.	Md, Asif, D. Shobha Rani, B. Ramu, P. Harika "A Fuzzy Logic controller based multy functional dynamic voltage restorer in distribution system" IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013).
10.	Md, Asif, D. Shobha Rani, B. Ramu, P. Harika "Smart Grid: An Emergency Power system" International Journal of Engineering Science and Innovative Technology (IJESIT) ,ISSN: 2319-5967 2013).
11.	Prof. D. Shobha Rani, Tellapati Anuradha Devi, K.Hanumantha Rao "Fuzzy based power control of a hybrid active wind generator for distributed power generation" IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013), PP 21-27
12.	K. Hanumantha Rao, Nakeertha Suresh, Prof. D. Shobha Rani "Secondary Distribution for Grid Interconnected Nine-level Inverter using PV system" IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013), PP 61-68.
Dr. H S. Jain	
1.	H.S. Jain, S.N. Saxena and M.S. Agarwal, "Studies on effects of metal vapour in an experimental self-blast interrupter", IEEE Transactions on Power Delivery, Vol. 14, No.4, 1999, pp. 1327-1332.
2.	M. Mohana Rao, S.Satyanarayana, S. Vinay Kumar and H.S. Jain," Effect of Metallic Particles on E-Field Enhancement in Extra High Voltage Gas Insulated Transmission Lines (GITL)" International Journal of Electrical Engineering and Technology, Vol. 5, No.4, 2010, pp. 631-636
3.	M. Mohana Rao, Ms. Paul and H.S. Jain, "Induced current switching by Fault Proof Gas Insulated Earthing Switch Analytical and Experimental Studies on Induced Current

- Switching by a Fault-Proof Gas Insulated Earthing Switch”, International Journal of Emerging electrical power systems, Vol. 11, Issue 5, Article 4, 2010.
4. A.K. Adikesavulu, S. Rengarajan, Dr. M. Mohana Rao and H.S. Jain, “Characterisation of PD behaviour in GIS by Acoustic Insulation Analyser” International Journal of Power and Energy Systems, Vol. 31, No.4, Apr 2011. ACTA PRESS.
 5. M. Mohana Rao and H.S. Jain, “An Analytical approach for evaluation of DC discharge capability of inductive voltage transformers” Electrical India Magazine, Aug. 2009.
 6. M. Mohana Rao and H.S. Jain, “Evaluation of Touch and Step potentials of gas insulated substation grounding systems” Electrical India Magazine, May 2009.
 7. M. Mohana Rao, Ms. Paul and H.S. Jain, “Design of test circuit for induced current switching of fast acting earth switches” IEEMA Journal
 8. M. Mohana Rao, S. Satyanarayana and H.S. Jain, “Effect of Metallic Particles Size in Extra High Voltage Gas Insulated systems” 16th International symposium on High voltage Engineering, ISH, Aug. 2009.
 9. M. Mohana Rao, H.S. Jain, “Evaluation of circuit breaker performance using arc power calculations”, 15th International symposium on High voltage Engineering, ISH, SLOVENIA, Aug. 2007.
 10. M. Mohana Rao, A.K. Adikesavulu, S. Vinay Kumar and H.S. Jain, “Condition monitoring of Gas insulated substations – A Review” Electrical India
 11. M. Mohana Rao and H.S. Jain, “CFD Modelling of a Variable-blast Interrupter” 14th Intl Symposium on High Voltage Engg., China, F-05, pp.1-4, Aug. 2005.
 12. M. Mohana Rao, H.S. Jain and J. Dakshinamurthy, “BHEL’s 145 kV Gas Insulated Substation- Field Experience” Sixth Intl. Conference on Switchgear, SWICON-2004, Nov. 18th-19th, Mumbai.
 13. H.S. Jain and M. Mohana Rao, “Estimation of Energy Transport in Expansion Volume of Self-Blast Interrupter” 12th Intl. Symposium on High Voltage Engineering, vol. 2, pp. 413-416, ISH-2001, Bangalore, India.
 14. M. Mohana Rao and H.S. Jain, “CFD Based Estimation of Pressure rise in GIS module during an Internal arc” Intl. Seminar on Gas Insulated Switchgear, New Delhi, Jan. 2001.
 15. H.S. Jain and M. Mohana Rao, “CFD Analysis: A Tool for Circuit Breaker Design” Fifth Intl. Conference on Switchgear, SWICON-2000, Hyderabad.
 16. M. Mohana Rao, H.S. Jain, S. Rengarajan and S.C. Gupta, “Measurement of Very Fast Transient Over voltages (VFTO) in a GIS module” 11th international symposium on High Voltage Engineering, ISH-1999, London, UK.
 17. H.S. Jain, M. Mohana Rao, S.N. Saxena and M.S. Agarwal, “Measurement of Electrical Conductivity of hot SF₆ gas below 3000K” 11th international symposium on High Voltage Engineering, ISH-1999, London, UK.
 18. M. Mohana Rao, H.S. Jain and B.P. Singh, “Simulation of Transient Enclosure Voltages (TEV) in 400 kV Gas Insulated Bus duct (GIB)” Workshop on GIS Technology, CPRI, Dec. 7-8, pp. III-27 to III-38, Bangalore, 1998.
 19. M. Mohana Rao, and H.S. Jain, “Evaluation of Gas Flow Parameters in Two-stage blast Interrupter during Interruption” Seventh Intl. Conference on Switchgear, SWICON-2008, Mumbai.
 20. M. Mohana Rao, H.S. Jain and D.K. Dikshit, “BHEL’s Experience in evaluation of Gas Insulated Disconnect Switch for Bus Charging Current Tests” Seventh Intl. Conference on Switchgear, SWICON-2008, Mumbai.
 21. M. Mohana Rao, and H.S. Jain, “A study on performance evaluation of gas insulated substation grounding systems” 69th GBM, Institution of Engineers, Hyderabad, Oct. 30th, 2006.
 22. M. Mohana Rao, and H.S. Jain, “BHEL’s 145 kV Gas Insulated Substation- Safety Measures and Field Experience” 69th GBM, Institution of Engineers, Hyderabad, Oct. 30th, 2006.
 23. M. Mohana Rao, H.S. Jain and S.C. Gupta, “Capacitive Voltage Divider for Measuring Steep rising pulses in GIS” 4th Workshop & Conference on EHV Technology, Bangalore, July 15th - 18th, 1998.
 24. H.S. Jain and M. Mohana Rao, “Design of Hybrid Gas Insulated Transmission Line

(HGITL) with Auxiliary shield” 4th Workshop & Conference on EHV Technology, Bangalore, July 15th - 18th, 1998.	
Mr. T.C. Srinivasa Rao	
1.	T.C Srinivasa Rao, “Investigation of the Performance of Direct AC to AC Converter in High Frequency Industrial Applications”, International Journal of Engineering and Technology Volume 1No. @, November, 2011.
2.	T.C Srinivasa Rao, “Application of Vector Control Technique to AC Motors”, International Journal of Advances in Engineering Research Volume No. 2, Issue No. V, November, 2011, ISSN:22.1-5152
3.	TC Srinivasarao “Auto Control of A Standbytransformer using Microcontroller”, International Journal of Advances in Engineering Research, (IJAER) 2011, Vol. No. 2, Issue No. V, November
4.	TC Srinivasarao “Direct AC to AC Converter with Variable Frequency Sinusoidal Currents for Application to Grid Connected Wind Generators”, International Journal of Advances in Engineering Research, (IJAER) 2011, Vol. No. 2, Issue No. IV, October, ISSN: 2231-5152
5.	T.C. Srinivasa Rao, N. Srinivas, G. Sandeep “Application of SVM Technique for Three Phase Three Leg Ac/Ac Converter Topology” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 65-69
6.	T. C. Srinivasa Rao, D. Shobha Rani, K. Hanumanatha Rao, Md. Asif, “ A New Topology for the Design and control of Uninterruptible Power Supply by Using Z-Source Inverter”, International Journal of Power Electronics and Energy, Volume 5, June-2012, pp.201-216.
7.	Md. Asif, D. Shobha Rani ,T.C. Srinivasa Rao , K. Hanumanath Rao, “ A Simulink Model for Emergeney Power System and Electricity Market using Green Energy Technology”, International Journal of Engineering and Technology Volume 2 No.8 August,2012, ISSN 2049-3444.
Mr. K Hanumantha Rao	
1.	K Hanumantha Rao, K Damodara Reddy, O V S R Varaprasad “One Cycle Controlled Active Filtering Technology for Industrial Power System – A Matlab/Simulink Approach”, Internal Journal of Power Electronics Converter ISSN: ISSN: 2277-2596, Vol:1,Issue:2, June-2012
2.	T. C. Srinivasa Rao, D. Shobha Rani, K. Hanumanatha Rao, Md. Asif, “ A New Topology for the Design and control of Uninterruptible Power Supply by Using Z-Source Inverter”, International Journal of Power Electronics and Energy, Volume 5, June-2012, pp.201-216.
3.	Md. Asif, D. Shobha Rani ,T.C. Srinivasa Rao , K. Hanumanath Rao, “ A Simulink Model for Emergeney Power System and Electricity Market using Green Energy Technology”, International Journal of Engineering and Technology Volume 2 No.8 August,2012, ISSN 2049-3444.
4.	Prof. D. Shobha Rani, Tellapati Anuradha Devi, K.Hanumantha Rao “Fuzzy based power control of a hybrid active wind generator for distributed power generation” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013), PP 21-27.
5.	K. Hanumantha Rao, Nakeertha Suresh, Prof. D. Shobha Rani “Secondary Distribution for Grid Interconnected Nine-level Inverter using PV system” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013), PP 61-68
6.	K. Hanumanth Rao, P. Rajasekhar, M. Hari Babu “Improved Fuzzy Control Strategy for Power Quality in Distributed Generation’s Single Phase Inverters” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 38-49
Mr. Md. Asif	
1.	Md. Asif, D. Shobha Rani ,T.C. Srinivasa Rao , K. Hanumanath Rao, “ A Simulink Model for Emergeney Power System and Electricity Market using Green Energy Technology”, International Journal of Engineering and Technology Volume 2 No.8 August,2012, ISSN 2049-3444.
2.	T. C. Srinivasa Rao, D. Shobha Rani, K. Hanumanatha Rao, Md. Asif, “ A New Topology for

	the Design and control of Uninterruptible Power Supply by Using Z-Source Inverter”, International Journal of Power Electronics and Energy, Volume 5, June-2012, pp.201-216. 3. Md.Asif, J.Bhoomaiah, E. Krishna,” Simulation for Protection of Huge Hydro Generator from Short Circuit Faults”, International Journal of Engineering and Research, Volume 4,ISSUE 8, Nov-2012,eISSN 2278-067X, pISSN : 2278-800X, 4. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “ Fuzzy Logic controller based effective energy management of composite energy storage system involving battery and ultra capacitor in microgrid” ” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 5. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “A Fuzzy Logic controller based multy functional dynamic voltage restorer in distribution system” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 6. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “Smart Grid: An Emergency Power system” International Journal of Engineering Science and Innovative Technology (IJESIT) ,ISSN:2319-5967 2013).
	Mr. V.Sharath Babu 1. V.Sharath Babu, M.Rajendra Prasad, G.Nagendra, K.Damodara Reddy, V.Sridhar “Research Method to Optimize Logger for a Telecom Application Running on Embedded System” International Journal of Engineering Research and Development ISSN: 2278-067X, Volume 1, Issue 6 (June 2012), PP.01-09 2. K. Damodara Reddy, V. Sharath Babu, "Research Method to Optimize Logger for a Telecom Application Running on Embedded System" International Journal of Engineering Research and Development ISSN: 2278-067X, Volume 1, Issue 6 (June 2012), PP.01-09 3. K. Kalyan Kumar, V. Sharath Babu, M. Hari Babu, R. Bhaskar “Performance comparison of SVC and SSSC with POD controller for Power System Stability” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 28-37 4. A.Ramakrishna, V.Sharathbabu, R.Bhaskar,N.Srinivas, K.Venkateswarlu “Design of Cost Effective Independent Power System Using Renewables for Rural Villages” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 57-64
	Mr. K. Damodara Reddy 1. K. Damodara Reddy, V. Sharath Babu, "Research Method to Optimize Logger for a Telecom Application Running on Embedded System" International Journal of Engineering Research and Development ISSN: 2278-067X, Volume 1, Issue 6 (June 2012), PP.01-09 2. G.Sandeep, N.Srinivas, K. Damodara Reddy, A.Ramakrishna, K.Venkateswarlu, “Speed Sensorless Sliding Mode Control of Induction Motor Using Simulink” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 50-56 3. K. Damodara Reddy, K.Venkateswarlu, N.Srinivas, G.Sandeep, “Cascaded Multilevel Inverter Based Active Power Filters: A Survey of Controls”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 1 (May. - Jun. 2013), PP 76-86. 4. K Hanumantha Rao, K Damodara Reddy, O V S R Varaprasad “One Cycle Controlled Active Filtering Technology for Industrial Power System – A Matlab/Simulink Approach”, Internal Journal of Power Electronics Converter ISSN: ISSN: 2277-2596, Vol:1,Issue:2, June-2012
	Mr.K.Kalyan Kumar 1. Mr.K.Kalyan Kumar, Mrs.Yasoda.Mudadla “Comparative analysis of hysteresis and ramp type current controllers for Grid connected VSI” International Journal of Advanced Research in Computer Science, Volume 3, No. 7, Nov-Dec 2012, ISSN No. 0976-5697 2. K. Kalyan Kumar, V. Sharath Babu, M. Hari Babu, R. Bhaskar “Performance comparison of SVC and SSSC with POD controller for Power System Stability” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 28-37

Mr. N.Srinivas

1. N Srinivas , A.Raghu Ram, O V S R Varaprasad “Design of Economic Autonomous Power System using Renewables for Remote villages” International Journal of Electrical Engineering & Technology (IJEET), volume 3, issue 2, July – September (2012), pp. 140-150.
2. G.Sandeep, N.Srinivas, K. Damodara Reddy, A.Ramakrishna, K.Venkateswarlu, “Speed Sensorless Sliding Mode Control of Induction Motor Using Simulink” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 50-56.
3. A.Ramakrishna, V.Sharatbabu, R.Bhaskar, N.Srinivas, K.Venkateswarlu, “Design of Cost Effective Independent Power System Using Renewables for Rural Villages” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 57-64
4. K. Damodara Reddy, K.Venkateswarlu, N.Srinivas, G.Sandeep, “Cascaded Multilevel Inverter Based Active Power Filters: A Survey of Controls”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 1 (May. - Jun. 2013), PP 76-86.
5. T.C. Srinivasa Rao, N. Srinivas, G. Sandeep “Application of SVM Technique for Three Phase Three Leg Ac/Ac Converter Topology” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 65-69

Mr. G. Sandeep

1. G.Sandeep, N.Srinivas, K. Damodara Reddy, A.Ramakrishna, K.Venkateswarlu, “Speed Sensorless Sliding Mode Control of Induction Motor Using Simulink” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 50-56
2. T.C. Srinivasa Rao, N. Srinivas, G. Sandeep “Application of SVM Technique for Three Phase Three Leg Ac/Ac Converter Topology” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 65-69
3. K. Damodara Reddy, K.Venkateswarlu, N.Srinivas, G.Sandeep, “Cascaded Multilevel Inverter Based Active Power Filters: A Survey of Controls”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 1 (May. - Jun. 2013), PP 76-86.
4. G.Sandeep, Y. Prakash, “Knowledge and Skill Key to Economic Growth”, Indian Journal Of Management Science (IJMS) e-ISSN:2231-279X, p-ISSN:2249-0280, (April-2013), PP 28-37

Mr. A.Ramakrishna

1. A.Ramakrishna, V.Sharatbabu, R.Bhaskar,N.Srinivas, K.Venkateswarlu “Design of Cost Effective Independent Power System Using Renewables for Rural Villages” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 57-64
2. G.Sandeep, N.Srinivas, K. Damodara Reddy, A.Ramakrishna, K.Venkateswarlu, “Speed Sensorless Sliding Mode Control of Induction Motor Using Simulink” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 50-56.
3. Bhaskar.R, Ramakrishna.A, Venkateshwarlu.K, Haribabu.M “A Novel Architecture for an efficient data encryption system” International Journal of Scientific Engineering and Technology, (ISSN : 2277-1581) Volume No.2, Issue No.6, pp : 488-491 1 June 2013

Mr. R.Bhaskar

1. Bhaskar.R, Ramakrishna.A, Venkateshwarlu.K, Haribabu.M “A Novel Architecture for an efficient data encryption system” International Journal of Scientific Engineering and Technology, (ISSN : 2277-1581) Volume No.2, Issue No.6, pp : 488-491 1 June 2013
2. R.Bhaskar Prof Ganapathi Hegde, Dr. P.R.Vaya “ An Efficient Hardware Algorithm for RSA Encryption System using Vedic Mathematics” International Conference (Elsevier) Dec 2011
3. A.Ramakrishna, V.Sharatbabu, R.Bhaskar,N.Srinivas, K.Venkateswarlu “Design of Cost

4.	Effective Independent Power System Using Renewables for Rural Villages” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 57-64 K. Kalyan Kumar, V. Shararth Babu, M. Hari Babu, R. Bhaskar “Performance comparison of SVC and SSSC with POD controller for Power System Stability” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 2 (May. - Jun. 2013), PP 28-37
	Mr. B. Ramu 1. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “ Fuzzy Logic controller based effective energy management of composite energy storage system involving battery and ultra capacitor in microgrid” ” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 2. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “A Fuzzy Logic controller based multy functional dynamic voltage restorer in distribution system” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 3. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “Smart Grid: An Emergency Power system” International Journal of Engineering Science and Innovative Technology (IJESIT) ,ISSN:2319-5967 2013).
	Ms. P. Harika 1. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “ Fuzzy Logic controller based effective energy management of composite energy storage system involving battery and ultra capacitor in microgrid” ” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 2. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “A Fuzzy Logic controller based multy functional dynamic voltage restorer in distribution system” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013). 3. Md, Asif, D. Shobha Rani, B. Ramu, P. Harika “Smart Grid: An Emergency Power system” International Journal of Engineering Science and Innovative Technology (IJESIT) ,ISSN:2319-5967 2013). 4. D. Shobha Rani, Md, Asif, P. Harika “A SVC light based technique for power quality improvement for Grid connected wind energy system”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 6, Issue 3 (May. - Jun. 2013).

- * Number of papers published in peer reviewed journals (national / international) by faculty and students : **28**
- * 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.) : **26**
- * Books with ISBN/ISSN numbers with details of publishers

	Dr. Hari Shankar Jain 1. Dr. Hari Shankar Jain “Handbook of switchgears, Tata McGraw-Hill 2. Dr. Hari Shankar Jain “Electrical Power Engineering, Knowledge Books Inc.”.
--	---

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

B.Tech

- Percentage of students who have done in-house projects including inter departmental/programme:
95% of the students have done their projects in-house
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:
5% of the students have done their project at BHEL.

M.Tech

- Percentage of students who have done in-house projects including inter departmental/programme : 85%
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: 15%

23. Awards/ Recognitions received by faculty and students:

Faculty:

Nil

Students:

S.No	Name of The Candidate	Name of event	Host Organization	Prize
1	R. Lavanya	SRUJANA '12	Broad Band over lines	1 st
2	Shaik Kareemuddin	SRUJANA '12	Broad Band over lines	1 st
3	Shaik Kareemuddin	Tech Samprathi 2K13	Nidhi Quin Club	1 st
4	R. Lavanya	Poster Presentation	Environmental Science	2 nd

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

S.No	Title of the Programme	Resource Persons	Date of the Event	Target Audience	No. of students attended
2012 – 2013					
1	Seminar on Concepts and Principles of Electrical Engineering	Dr. B. V. Shankar Ram	25 th April 2013	200	180
2		N. Yadaiah	1 st March 2013	160	123
2011 – 2012					
1	Guest Lecture on Energy Conservation	Mr. C.B. Jagadeeshwar Reddy Dist Manager, NEDCAP	11 April 2012	80	72
2	Seminar on Reliability Engineering and Application to Power Systems	Dr. R. Surahmanyam VBIT, Hyderabad	30 March 2012	80	72
3	Seminar on Recent Trends in Power Electronics	Mr. Rama Krishnaiah APSEB, Hyderabad	7 March 2012	150	130
4	SCADA & Its applications to Power Systems	Prof. N. L. V. Prasad, VJIT, Hyderabad	19 th September, 2011	150	140
5	Work Shop on ROBOTICS	Mr. Sumeet Bothra Sumeet Instruments PVT. LTD	27 th July, 2011	150	135

2010 – 2011					
1	Seminar on Employability opportunities	Ms. Bhargavi Nuvvula Microsoft India	14 th March, 2011	100	82
2	Seminar on Ethics and Industry Best Practices	Group Captain, HRA Dasari	23 rd August 2010	200	180

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National

S. No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
1	ISTE CHAPTER	ETA-13	25 th April 2013	--	200
2	ISTE CHAPTER	Project Expo-13	24 th April 2013	--	79
3	ISTE CHAPTER	Work shop on ACAD	10 June to 7 th July 2013	20	--
4	ISTE CHAPTER	Technolites 2k12	13-14 October 2012	19	125
5	ISTE CHAPTER	A One Day Lecture on HVDC	27 December 2012	15	90
2011– 2012					
1	ISTE CHAPTER	Best Seminar presentation for Final Years	16 th August 2012	--	120
2	ISTE CHAPTER	Technolites 2K11	29-30 October 2011	10	100
2010 – 2011					
1	ISTE CHAPTER	Technolites 2K10	08-09 October 2010	8	86
2	ISTE CHAPTER	ETA-11	2 nd April 2011	--	185
3	IEEE CHAPTER	One Day Lecture on “PLC”	10 th July 2013	12	100

b) International: **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Tech (EEE)					Not applicable
M. Tech – PEED					Not applicable

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech (EEE)	94%	5%	0%
M. Tech – PEED	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket No	Examination	Rank or Score Secured
1	K. Manojkumar	EE71632469	GATE-2013	460
2	P Anvesh	EE11312156	GATE-2013	444
3	Betsy Maria Mathews	EE11102829	GATE-2013	404
4	B. Narsing Rao	EE11242931	GATE-2013	337

5	A Shiva Kumar	EE11202405	GATE-2013	267
6	G. Naveen Kumar	12307773	IIS	761
7	G. Naveen Kumar	EE1176226	GATE-2012	469
8.	M. Naresh Kumar	EE1230740	GATE-2012	557
9.	L. Sravya	EE1196354	GATE-2011	405
10.	C. Varsha Rani	EE1196764	GATE-2011	321

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	22 %	10 %	14 %
PG to M. Phil	0 %	0 %	0 %
PG to Ph.D.	N / A*	0%	0%
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	08	20	14
• Other than campus recruitment	20	14	06
Entrepreneurship/Self-employment			

*N/A: Not Applicable

30. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 53722 number of titles, 9851 number of volumes exclusively for EEE students and staff out of 866 number of total titles, 4738 number of total volumes.

A part from the above facility Department is having a separate departmental library facility for staff with 300 number of titles, 300 number of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures.

Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department. Also all the laboratories are equipped with LCD projects.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
Electrical Circuits and Simulation Lab	Exclusive	85 Sq. M 36 Students /slot Experimental setup	10+2*	Good	Available
Control Systems and Simulation Lab	Exclusive	138 Sq. M 36 Students /slot Experimental setup	10+2*	Good	Available
Electrical Machines – I Lab	Exclusive	295 Sq. M 36 Students / slot 1 student per system	10+2*	Good	Available
Electrical Machines – II Lab	Exclusive	295 Sq. M 36 Students / slot	10+2*	Good	Available

		1 student per system			
Power Electronics and Simulation Lab	Exclusive	138 Sq. M 36 Students / slot 1 student per system	10+2*	Good	Available
Electrical Measurements Lab	Exclusive	85 Sq. M 36 Students / slot 1 student per system	10+2*	Good	Available
Electrical and Electronics Lab	Exclusive	85 Sq. M 36 Students / slot 1 student per Experimental Setup	10+2*	Good	Available
Electrical and Electronics Engineering Lab	Exclusive	85 Sq. M 36 Students / slot 1 student per Experimental Setup	10+2*	Good	Available
Power Converters Lab	Exclusive	66 Sq. M 18 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Power System and Simulation Lab	Exclusive	66 Sq. M 18 Students / slot 1 student per Experimental Setup	15+2*	Good	Available
Research Lab (M.Tech)	Exclusive	100 Sq. M	--	Good	Available

31. Number of students receiving financial assistance from college, university, government or other agencies:

of Other agencies:				
S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	B. Tech (EEE)	1 st		0
		2 nd		0
		3 rd		0
		4 th	70	0
	Total No. of B. Tech students		314	0
2	M. Tech – PEED	1 st		
		2 nd	6	7
	Total No. of M. Tech students		45	11
Total number of Students enjoying financial assistance			370	

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

The students are actively involved in all activities conducted by Technical Forums of the respective Departments besides participating in extra-curricular activities organized by NSS such as Blood Donation Camps, AIDS awareness programmes, Rural Health, Sanitation and Medical Camps. Also students enthusiastically participate in cultural events organized on important occasions like Freshers' Day, Graduation Day and Annual Day.

Students who have demonstrated their skills in Sports and Games are deputed to participate in Inter-collegiate and Inter-university tournaments.

Institutional Memberships

- College of Electrical and Electronics Engineers (IEEE)
- College of Engineers (India) - Life member
- Indian Society for Technical Education (ISTE)
- Computer Society of India (CSI)
- The Institution of Electronics & Telecommunication Engineers (IETE)
- Association for Computing Machinery (ACM)

Students Chapters of Professional Bodies

- Indian Society for Technical Education (ISTE)
- College of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

Technical Associations

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA – Computer Engineers Technical Association (CSE)
- ETA – Electrical Technical Association (EEE)
- VIVECA – Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT – Technical Association of Information Technology (IT)
- MACHINE – Mechanical Association for Creating Highly Innovative Engineers

National Level Student Technical Paper Contest relating to all branches, “**TECHNO-LITES**”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students’ participation.

Orientation Day

At the time of admissions, orientation classes are arranged wherein the freshers and their accompanying parents are briefed about the College, facilities available and academic requirements. Matters pertaining to discipline, dress code, and regularity are highlighted and parents are invited to interact.

An exclusive Parents meet is arranged where in the Chairman of the Society and eminent personalities from different walks of life address the gathering. The parents interact with the faculty and Management on the occasion.

Fresher’s Day

After completion of the admissions and soon after commencement of class work, senior students arrange “Get-together” and welcome the Fresher’s to the campus.

Annual Day

The College Annual Day is celebrated in March every year on a grand scale. The colorful cultural activities are organized on that day.

Graduation Day

The college Graduation day is conducted in June every year. **Graduation** is the action of receiving or conferring an academic degree or the ceremony, where students become Graduates. The date of graduation is often called **degree day**.

Literary and Cultural Activities:

2012 – 2013			
S. No	Event	Venue	Date
1	ORTUS'13, Annual Day Celebrations	Vardhaman College of Engineering	02-03-13
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	01-03-13
3	Engineers Day Celebrations	Vardhaman College of Engineering	15-09-12
4	Teachers Day Celebrations	Vardhaman College of Engineering	05-09-12
2011 – 2012			
S. No	Event	Venue	Date
1	ORTUS'12, Annual Day Celebrations	Vardhaman College of Engineering	31-03-12
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	30-03-12
3	Dandiya Celebrations	Vardhaman College of Engineering	01-10-11
4	E-Clats-2k11 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	12-08-11
2010 – 2011			
1	ORTUS'11, Annual Day Celebrations	Vardhaman College of Engineering	19-03-11
2	Traditional Day Celebrations	Vardhaman College of Engineering	18-03-11
3	Dandiya Celebrations	Vardhaman College of Engineering	14-10-10
4	E-Clats-2k10 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	21-08-10

33. Teaching methods adopted to improve student learning

- 1 Higher usage of ICT: LCD/Web usage etc.,
- 2 Critical thinking assignments
- 3 Demonstration of mini and main projects
- 4 Expert lectures from industry professionals
- 5 Adoption of mentorship for overall development of students

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

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

35. SWOC analysis of the department and Future plans

STRENGTHS:

The college is 10 years old with 7 UG and 7PG programmes out of which 4 programmes are accredited by NBA.

- S1 Located in good clean, open and safe environment away from residential and commercial areas.
- S2 Good civil infrastructure for classrooms, labs, library, lecture halls, seminar rooms, administrative blocks etc.
- S3 Reputed among top colleges in the list of 350 engineering colleges affiliated with JNTU, Hyderabad.

- S4 Qualified and well educated management that has broad outlook for academic endeavour and excellence.
- S5 Robust financial base with all student seats filled.
- S6 Provides friendly working environment.
- S7 Committed faculty with good retention ratio and team spirit.
- S8 R&D centre headed with budgeted fund allocation.
- S9 Good Training & Placement centre with TCS accreditation.
- S10 Air Conditioned labs with modern equipment and facilities.
- S11 Good library with digital facility and e- journals.
- S12 Availability of Wi Fi enabled networking and e- classrooms.
- S13 High Student discipline.
- S14 Produces Rank holders at university level.
- S15 Pass percentage is high with good overall results at university level.
- S16 Good Proctorial (Teacher- Protégé) relation for teaching- learning process.
- S17 There is a system of counseling and remedial classes for weak students.
- S18 Provides free transport facility to faculty.
- S19 Cordial teacher- student relationship.
- S20 Pay scales above standard AICTE norms and paid timely.
- S21 Alumni- College relationship exists. (loyal and committed in EEE)

WEAKNESSES

- W1 No networking with other colleges and Colleges for resource optimization.
- W2 Fewer faculties with engineering Ph. D's.
- W3 No financial authority and delegation at faculty level.
- W4 Poor R&D output and project consultancy.
- W5 Few motivational incentives for faculty.
- W6 Weak Research and Industrial experience in faculty content.
- W7 Less than adequate research paper presentation by faculty.
- W8 No staff quarters on campus.

OPPORTUNITIES

- O1 Engineering consultancy to local industry.
- O2 Faculty pursuit for Ph.D's with local universities without academic and family disruption.
- O3 College- industry tie-ups for project work, consultancy, training and placements.
- O4 Develop technical and academic expertise in new fields.
- O5 R&D projects for market and industry.
- O6 Training hub for other Colleges.
- O7 Exchange programmes for faculty and students with other Colleges.
- O8 Institutional collaboration for academic and research engagements.
- O9 Develop trained and qualified faculty as industry trainers.

Challenges

- C1 Present political scene in the state.
- C2 Mushroom growth of engineering colleges in the local environment.
- C3 Inability to meet industry demand and market challenge.
- C4 Insufficient external support and for learning training programmes.
- C5 Entry of foreign and other universities can lead to unequal competition.
(viz: resource and reputation)
- C6 Diminishing availability of academicians to maintain faculty quality.
- C7 Low employability of pass-outs can influence less number of future students opting for engineering career.

Evaluative Report of the Mechanical Engineering

1. Name of the department : **Mechanical Engineering**
2. Year of Establishment : **2005**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
B. Tech : Mechanical Engineering	M. Tech: Engineering Design

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

5. Annual/ semester/choice based credit system (programme wise):

UG	PG
Semester Based	Semester Based

6. Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.

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	3	3
Associate Professors	5	5
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
1.	Dr. B. Venkatesh	M. Tech., Ph. D	Professor	Engineering Design
2.	Dr. S. Deva Prasad	M. Tech., Ph. D	Professor	Industrial Engineering
3.	Dr. V. S. V. Prabhakar	M. Tech., Ph. D	Professor	Nano Technology
4.	Mr. N. Srinivasa Reddy	M. Tech	Associate Professor	Thermal Engineering
5.	Mr. K. Deepak	M. Tech	Associate Professor	Thermal Engineering
6.	Mr. T. V. Seshaiyah Naidu	M. Tech	Associate Professor	Thermal Engineering
7.	Mr. V. Sreedhar	M. Tech	Associate Professor	Thermal Engineering
8.	Mr. D. V. Ramana Reddy	M. Tech	Associate Professor	CAD/CAM
9.	Ms. K. Mani Kumari	M. Tech	Assistant Professor	Advanced Manufacturing System
10.	Mr. E. Manoj Kumar	M. Tech	Assistant Professor	Thermal Engineering
11.	Mr. M. Suresh Kumar	M. Tech	Assistant Professor	CAD/CAM
12.	Mr. Ch. Chandra Mouli	M. Tech	Assistant Professor	Industrial Engineering
13.	Mr. G. Ravi Chandra	M. Tech	Assistant Professor	CAD/CAM
14.	Ms. P. Poornima	M. Tech	Assistant Professor	Advanced IC Engines
15.	Mr. Ch. Subba Rao	M. Tech	Assistant Professor	Renewable Energy

16.	Mr. S. Naresh Kumar	M. Tech	Assistant Professor	CAD/CAM
17.	Mr. K..Sai Ram	M. Tech	Assistant Professor	Machine Design
18.	Mr. A. Gangadhar	M. Tech	Assistant Professor	CAD/CAM
19.	Mr. K. Tejonadh Babu	M. Tech	Assistant Professor	Thermal Engineering
20.	Mr. S. M. Gangadhar Reddy	M. Tech	Assistant Professor	Production Technology
21.	Mr. V. Mahidhar Reddy	M. Tech	Assistant Professor	CAD/CAM

11. List of senior visiting faculty:

S. No.	Name of the faculty	Organization	Designation
1.	Dr. G. Satish Babu	JNTU, Hyderabad	Associate Professor
2.	Dr. Ramjee	JNTU, Hyderabad	Associate Professor
3.	Dr. S. Madhava Reddy	MGIT, Hyderabad	Professor
4.	Dr. Ratnakar Pandu	SR Engineering College	Professor
5.	Dr. Swamy Naidu	GITAM, Hyd Campus	Professor

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **No temporary faculty are in rolls**

13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	26	390	1:15
M. Tech – ED	3	18	1:12

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

	Sanctioned	Filled
Academic Support Staff	4	4
Administrative Staff	1	1

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

Qualification	No. of faculty
PG (ME / M. Tech)	25
Ph. D	4

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

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

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

19. Publications:

* a) Publication per faculty

Dr B.Venkatesh	
Journals:	
1.	B.Venkatesh' V.Kamala, A.M.K.Prasad., "Parametric Approach to Analysis of helical gear for High Speed Marine Applications", International Journal on Mechanical & Automobile Engineering, Volume 17, Issue 1, Aug 2011.pp 13-20.
2.	B.Venkatesh' V.Kamala, A.M.K.Prasad., "Parametric Approach to Analysis of Aluminum alloy helical gear for High Speed Marine Applications", International Journal of Modern

Engineering Research, Vol.1, Issue 1, 2011, pp 173- 178

3. B.Venkatesh, V.Kamala, A.M.K.Prasad., "Parametric Approach to Analysis of High Speed Helical Gear with 40 Ni2 Cr1 Mo28 Steel for Marine Applications", International Journal of RES Engineering, Vol.1, Issue 4, 2011 pp 6-10
4. B.Venkatesh, V.Kamala, A.M.K.Prasad, "Design, Modeling & Manufacturing of helical gear," International journal of Applied Engineering Research , Volume 1, No 1,2010 pp 103 -114
5. B.Venkatesh, V.Kamala, AMKPrasad, "Modeling & analysis of aluminum A360 alloy helical gear for Marine applications," International journal of Applied Engineering Research, Volume 1, No 2 ,2010 pp 124-134.
6. B.Venkatesh, V.Kamala, A.M.K.Prasad, "Parametric Study of Helical Gear with Aluminum Alloy for High Speed Marine Applications," International Journal of Engineering Research and Technology, Volume 3, No 3, 2010, pp 568 – 578.
7. B. Venkatesh, S.V.Prabhakar Vattikuti, D.V. Ramanareddy, S. Naresh Kumar, V.Kamala, AMK Prasad "Effect of bending stress on steel alloy of Helical Gear for High Speed Applications" IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2013 ISSN : 2278-1684

Conferences:

1. S V Prabhakar Vattikuti1, B Venkatesh, D V Ramanareddy, H H Chien and K J Ma "Wettability of Molten Glass on Water Based Sol-Gel Coatings", Proceedings of International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICAN-MEET-2013), Sathyabama University, Chennai, 2013.
2. Venkatesh B, S V Prabhakar Vattikuti, Ramana Reddy D V, Naresh Kumar S, Kamla V, Prasad A MK, "Effective of Bending Stress on Steel alloy of helical gear for high speed application", MES Engineering College, Pune, 2013.

Books:

1. B.Venkatesh, SV Prabhakar Vattikuti, "Design of High speed, High Quality Gears for Marine Applications" ISBN: 978-3-659-39888-9, 2013.(in Press)

Dr S.Deva Prasad

Papers Published:

1. Deva Prasad.S, TV Shesiah Naidu,V.Pandu Rangadu "Multi objective optimization of Inverse Heat Conduction Problem using revolutionary Algorithms / 22nd National and 11th ISHMT-ASME Heat and Mass Transfer Conference Organized by IIT Kharagpur-India, December 28-31, 2013,Accepted.
2. Perumalla Janaki Ramulu, A. Satish Babu, S. Deva Prasad, P. Srinivasa Rao, "The behavior of Friction Stir Welded (FSW) sheets of AA6061-T6 during in-plane stretching test". International Conference on Design and Manufacturing, IConDM 2013.
3. Deva Prasad. S and Rakesh Narain (1997) Maintenance perspective of CNC machines in Indian Industries , at 12th National convention of Mechanical Engineers organized by The Institution of Engineers (India) & MNREC, Allahabad, 31st Jan - 2nd Feb '97.
4. Deva prasad, S., C. Rajendran, and O.V. Krishnaiah Chetty (2002) Multi-objective optimization – Recent Approaches, SYMAX2002, IIT Madras.
5. Deva Prasad, S., C. Rajendran, and O.V. Krishnaiah Chetty (2002) A Genetic Algorithm for flowshop scheduling with multiple objectives, *International Conference on Operations Research for Development (ICORD)*, December 27-30, 2002, Anna University, India.
6. Deva Prasad, S., C. Rajendran, and O.V. Krishnaiah Chetty (2004) A Multi-Objective Genetic Algorithm for Permutation Flowshop Scheduling to minimize Makespan, Total Flowtime and Total Tardiness of jobs, *Int. Conf. on Responsive Supply chain and organizational Competitiveness (RSC-2004) – A Technology watch*, Coimbatore College of Technology, Coimbatore, India.
7. Deva Prasad, S., C. Rajendran, and O.V. Krishnaiah Chetty (2006) A genetic algorithmic approach to multi-objective Scheduling in Kanban-controlled flowshop with intermediate buffer and transport constraints, *The International Journal of Advanced Manufacturing Technology*, V29 (5), Springer-Verlag, pp. 564-576, ISSN: 0268-3768 DOI: 10.1007/s00170-005-2517-0

8. Deva Prasad, S (2007) A Genetic Algorithm for flowshop scheduling with multiple objectives, *Opsearch: Journal of the Operational Research Society of India*, 44 (1), pp. 1-16, ISSN 0030-3887.

Books Published:

1. Deva Prasad, 2012, S, Multi-objective Flowshop Scheduling: A Genetic Algorithmic Approach, 224p, LAP LAMBERT Academic Publishing, ISBN-13:978-3659239861

Dr. V S V Prabhakar

Journals:

1. Ch.Venkata Reddy, K.Vijaya Kumar, S.V.Prabhakar Vattikuti and R.V. S. S. N. Ravikumar "Preparation and photoluminescence of Cr^{3+} doped β - BaB_2O_4 nanopowder by co-precipitation Method" *Physica B*, 2013 (Under Review).
2. G.V.S.S.Sarma, Ch.VenkataReddy, S.V.Prabhakar Vattikuti, P. Narayana Murthy and R.V.S.S.N. Ravikumar "Spectral investigations of Mn_2+ doped $\text{Zn}_3(\text{BO}_3)_2$ nanopowder" *Journal of Molecular Structure* 1048 (2013) 64–68. [Impact factor: 1.73]
3. B. Venkatesh, S.V.Prabhakar Vattikuti, D.V. Ramanareddy, S. Naresh Kumar, V.Kamala, AMK Prasad "Effect of bending stress on steel alloy of Helical Gear for High Speed Applications" *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)*, 2013 ISSN : 2278-1684.
4. SV Prabhakar Vattikuti*, Hsi-Hsin Chien, Kung-Jeng Ma, Vardhaman College of Engineering, Shamshabad, India "Fabrication of Superhydrophobic Surface on PTFE/ePTFE Materials by Plasma Etching Process", *Int. Journal of Electrical, Electronics & Computing Technology*, Vol.1 (3), 2011 @ISSN 2229-3027,
5. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Chao "Tribological behaviour of MoS_2/Au coatings", *Journal of "Thin Solid Films"* 518 (2010) 7532–7534,.
6. Hsi Hsin Chien, Kung Jeng Ma, Yun Peng Yeh, SV. Prabhakar Vattikuti, Chien Hung Kuo, Choung Lii Chao. "Plastic Flow and Related Wear Mechanisms of CVD TiC Coatings "Advanced Materials Research, Vols. 126-128 (2010),
7. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Chao "High Temperature interfacial Reaction between Glass Gobs and Sol-Gel Coated Al_2O_3 films" *Advanced Materials Research*, Vols.76-78, *Advances in Abrasive Technology XII* (2009).
8. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Chao "Thermal Stability of Al_2O_3 Coated Low Transition Temperature Glass" *Defect and Diffusion Forum* (2009)

Conferences:

1. S V Prabhakar Vattikuti1, B Venkatesh, D V Ramanareddy, H H Chien and K J Ma "Wettability of Molten Glass on Water Based Sol-Gel Coatings", *Proceedings of International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICAN-MEET-2013)*, Sathyabama University, Chennai, 2013.
2. SV Prabhakar Vattikuti, N.Srinivasa Reddy, T.V.Seshaianaidu ,K.Mani Kumari, K.J.Ma and H.H.Chien "Nanostructured Coatings via Environment Friendly Deposition Technique for Demanding Tribological Applications", *Proceedings of 2nd world conference on Applied Science, Engineering and Technology* held on March 8-9, GITAMS University, Hyderabad, India, 2013.
3. Venkatesh B, S V Prabhakar Vattikuti, Ramana Reddy D V, Naresh Kumar S, Kamla V, Prasad A MK, "Effective of Bending Stress on Steel alloy of helical gear for high speed application", *MES Engineering College*, Pune, 2013.
4. SV Prabhakar Vattikuti, K.Mani Kumari, M.suresh Kumar, N.Sambashiva Rao, K.J.Ma and H.H.Chien, "Plastic Flow and Related Wear Mechanism of CVD Ceramic Coatings", *5th Bangalore Nano*, Dec 5-7, 2012, The Lalit ashok, Bangalore, India, 2012.
5. SV Prabhakar Vattikuti, N.Sambashiva Rao, G Naga Kumar Kakarla, K.J.Ma, H.H.Chien, "TiO₂ Sol-gel Thin Film for Biosensors Application" *world congress on Biotechnology-2012*, June6-8, Hyderabad, India, 2012.
6. SV Prabhakar Vattikuti, N.Sambashiva Rao, K.J.Ma, H.H.Chien, "Nano Pyramid Structure

Developed via Water Based Sol-gel Method: Al_2O_3 , SiO_2 ", Savior of Nano Science, Nano Engineering and Applications, (NCONSEA-2012), JNTUH, Hyderabad, India, 2012.

7. SV Prabhakar Vattikuti, N.Sambashiva Rao, "Nano Diffractive Structure Developed on Sol-Gel TiO_2 Thin Film for Sensors", Proceedings of Advances in Mechanical Engineering (AIME-2012), KITS, Singapur, Huzarabad, Andhra Pradesh, India, 2012.
8. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Cha "Thermal Stability of Al_2O_3 Coated Low Transition Temperature Glass" Submitted to DSL-(2009) International Conference in Rome, Italy.
9. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Chao "Effect of bias and Cr/N ratio on the Mechanical and Tribological Properties of Sputtered CrN Coatings" Submitted to Fifth international conference on surface engineering (ICSE 2007) Dalian, China.
10. Hsi-Hsin Chien, Kung-Jeng Ma, SV Prabhakar. Vattikuti, Chien-Huang Kuo, Cheng-Bang Huo, Choung-Lii Chao "Study of High Temperature Glass Wetting Behavior on various Coated Substrates" Submitted to Fifth international conference on surface engineering (ICSE 2007) Dalian, China.
11. SV Prabhakar. Vattikuti "An XAFS Analysis of Local Electronic Structure of HTSE MgB_2 " Submitted to the 3rd NCTP (2005), Goa University, Goa-India.
12. SV Prabhakar. Vattikuti "An XAFS and EBS Analysis of HTSCD MgB_2 in (Metal Heterostructures at the Atomic Limit) MEHAL" Submitted to DAE – SSPS (2004), C/O Technical Physics & Prototype Engineering Division, BARC, Mumbai-400085 India.

Books:

1. SV Prabhakar Vattikuti , Hsi-Hsin Chien, B.Venkatesh, "Wettability of Water Based Sol-Gel Coatings for optical Glass Preforms- Solutions for Glass Sticking Problems" ISBN: 978-3-659-39057-9, 2013.
2. B.Venkatesh, SV Prabhakar Vattikuti, "Design of High speed, High Quality Gears for Marine Applications" ISBN: 978-3-659-39888-9, 2013.(in Press)

Mr. N.Srinivasa Reddy

Journals:

1. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra "Experimental Investigation on the Performance Improvement of Biogas Plant" / International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 3, Issue 3, May-Jun 2013, pp.1218-1223.
1. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy "Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material" / Journal of Procedia Engineering , Elsevier , ISSN: 1877-7058. July 18-20, 2013.
2. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra "Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel" / Environmental Technology Journal by Taylor & Francis Online ISSN: 0959-3330, August 23-24, 2013.
3. Subbarao Chamarthi, N.Srinivasa Reddy, Ch Chandra Mouli "Investigation Analysis on Design and Modification of a Conventional Floating Dome Digester" / International Journal of Computational Engineering Research (IJCER), ISSN: 2250-3005, 25th June -2013.
4. Subbarao Chamarthi, Dr. Purnanand V Bhale, N.Srinivasa Reddy, Ch Chandra Mouli " Laboratory scale experiments for biogas production using gas chromatography analysis" / International organization of scientific research (IOSRJEN), ISSN: 2250-3021, 27th July - 2013.

Conferences:

1. N.Srinivasa Reddy, P.Srinivas Rao, T.Kishen Kumar Reddy, "Cfd Analysis on Hydro-Thermodynamic behaviour of Nano Fluid Flows" (Abstract no: NT2013-T010070349-379) accepted for the 3rd Nano Today Conference (December 8-11, 2013) in Biopolis, Singapore.
2. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy " Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material" / International Conference on Design and Manufacturing (IConDM2013), IIITD&M Kancheepuram, Chennai, INDIA, ISSN: 1877-7058. July 18-20,

2013. 3. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “ Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel” / 1st International Conference on Technologies for Sustainable Waste Management in Developing Countries –ICTW, Vignan University, Vadlamudi,Guntur(dist), Andhra Pradesh ,India,ISSN: 0959-3330, August 23-24, 2013. 4. Subbarao Chamarthi, N.Srinivasa Reddy, D V Ramana Reddy, Ch Chandra Mouli “Investigation Analysis on Different Operational Parameters of Solar Air Heaters- A Review”/ Conference on New & Renewable Energy Technologies held by PSG College of Coimbatore, 27th April,2013. 5. SV Prabhakar Vattikuti, N.Srinivasa Reddy, T.V.Seshaianaidu ,K.Mani Kumari, K.J.Ma and H.H.Chien “Nanostructured Coatings via Environment Friendly Deposition Technique for Demanding Tribological Applications”, Proceedings of 2nd world conference on Applied Science, Engineering and Technology held on March 8-9, GITAMS University, Hyderabad, India, 2013.
Mr. K.Deepak 1. K Deepak, A V S S K S Gupta, “Kalina Absorption Power Cycle Application as Bottoming Cycle in Low Grade Heat Recovery Systems” International Symposium on “Mechanical Engineering Emerging Trends” VCE, Hyderabad 2008. 2. K Deepak, A V S S K S Gupta, “Evaluation of Thermodynamic Properties of Ammonia-Water Mixture” International Symposium on “Recent Advances in Integrated Energy and Energy Conservation ” JNTU, Hyderabad, 2012.
Mr. T.V.Shesiah Naidu 1. SV Prabhakar Vattikuti, N.Srinivasa Reddy, T.V.Seshaianaidu ,K.Mani Kumari, K.J.Ma and H.H.Chien “Nanostructured Coatings via Environment Friendly Deposition Technique for Demanding Tribological Applications”, Proceedings of 2nd world conference on Applied Science, Engineering and Technology held on March 8-9, GITAMS University, Hyderabad, India, 2013. 2. Deva Prasad.S, TV Shesiah Naidu,V.Pandu Rangadu ”Multi objective optimization of In-verse Heat Conduction Problem using revolutionary Algorithms / 22nd National and 11th ISHMT-ASME Heat and Mass Transfer Conference Organized by IIT Kharagpur-India, December 28-31, 2013,Accepted.
Mr. V.Sreedhar 1. Sreedhar V , Nishanth M, Narendar Kumar D, Krishna Reddy K, “ Design of Flipping Four Blade Vertical Axis Wind Turbine”, 2nd World Conference on Applied Sciences, Engineering & Technology, Gitam University, Hyderabad, 2013. 2. V.Sreedhar, E.Manoj Kumar,M.Suresh Kumar, “Increasing the Drag Force of Vertical Axis Wind Turbine Blade By Changing the Position of Blade During its Operation”, Internal National conference organized by VIGNAN University, Guntur.
Mr. K. Mani Kumari 1. SV Prabhakar Vattikuti, N.Srinivasa Reddy, T.V.Seshaianaidu ,K.Mani Kumari, K.J.Ma and H.H.Chien “Nanostructured Coatings via Environment Friendly Deposition Technique for Demanding Tribological Applications”, Proceedings of 2nd world conference on Applied Science, Engineering and Technology held on March 8-9, GITAMS University, Hyderabad, India, 2013
Mr. E. Manoj Kumar Journals: 1. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy “Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material” / Journal of Procedia Engineering , Elsevier , ISSN: 1877-7058. July 18-20, 2013. Conferences: 1. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D V Ramana Reddy “ Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material” / International Conference on Design and Manufacturing (IConDM2013), IIITD&M, Kancheepuram,Chennai, INDIA, ISSN: 1877-7058. July 18-20, 2013.

2. V.Sreedhar, E.Manoj Kumar, M.Suresh Kumar, "Increasing the Drag Force of Vertical Axis Wind Turbine Blade By Changing the Position of Blade During its Operation", a Internal National conference organized by VIGNAN University, Guntur 3. COMSOL Conference 2013 on 17-18th October, Bangalore.
Mr. M.Suresh Kumar Journals: 1. M Vishnu Vardhan, M Suresh Kumar, "Seismic Analysis of Electric Panel", International Journal of Mechanical Engineering Research, Vol 3, pp. 83-90, Issue 2, 2013. Conferences: 1. M Vishnu Vardhan, M Suresh Kumar, "Seismic Analysis of Electric Panel", 2nd World Conference on Applied sciences, Engineering and Technology, GITAM University, Hyderabad, March 2013. 2. V.Sreedhar, E.Manoj Kumar, M.Suresh Kumar, "Increasing the Drag Force of Vertical Axis Wind Turbine Blade By Changing the Position of Blade During its Operation", a Internal National conference organized by VIGNAN University, Guntur. Paper selected August 2013.
Mr. D.V. Ramana Reddy Journals: 1. B. Venkatesh, S.V.Prabhakar Vattikuti, D.V. Ramanareddy, S. Naresh Kumar, V.Kamala, AMK Prasad "Effect of bending stress on steel alloy of Helical Gear for High Speed Applications" IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2013 ISSN : 2278-1684. 2. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy "Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material" / Journal of Procedia Engineering , Elsevier , ISSN: 1877-7058. July 18-20, 2013. 3. S V Prabhakar Vattikuti1, B Venkatesh, D V Ramanareddy, H H Chien and K J Ma "Wettability of Molten Glass on Water Based Sol-Gel Coatings", Proceedings of International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICAN-MEET-2013), Sathyabama University, Chennai, 2013. Conferences: 1. D V Ramanareddy, P Srinivasa reddy , "Advanced trends in solar cells and wave energy Devices", National Conference of Mechanical Engineering Emerging trends, Vardhaman College of Engineering, Hyderabad, 2010. 2. Ramana Reddy D V, Subbaratnam B, G V Rao, "Dynamic instability analysis of thin square plates subjected to constant compressive and periodic including constant compressive loads on perpendicular edges", 2nd world Conference on Science, Engineering & Technology at Gitam University, Hyderabad, 2013. 3. Venaktesh B, Prabhakar V S V, Ramana Reddy D V, Naresh Kumar S, Kamla V, Prasad A MK, "Effective of Bending Stress on Steel alloy of helical gear for high speed application", National Conference on RDME, MES Engineering College, Pune, 2013. 4. Subbarao Chamarthi, N.Srinivasa Reddy, D v Ramana Reddy, Ch Chandra Mouli "Investigation Analysis on Different Operational Parameters of Solar Air Heaters- A Review"/ Conference on New & Renewable Energy Technologies held by PSG College of Coimbatore, 27th April, 2013. 5. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D V Ramana Reddy " Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material" / International Conference on Design and Manufacturing (IConDM2013), IIITD&M, Kancheepuram, Chennai, INDIA, ISSN: 1877-7058. July 18-20, 2013. 6. S V Prabhakar Vattikuti1, B Venkatesh, D V Ramanareddy, H H Chien and K J Ma "Wettability of Molten Glass on Water Based Sol-Gel Coatings", Proceedings of International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICAN-MEET-2013), Sathyabama University, Chennai, 2013.
Mr. G.Ravi Chandra Journals: 1. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra "Experimental Investigation on

the Performance Improvement of Biogas Plant” / International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 3, Issue 3, May-Jun 2013, pp.1218-1223. 2. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel” / Environmental Technology Journal by Taylor & Francis Online ISSN: 0959-3330, August 23-24, 2013. Conferences: 1. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “ Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel” / 1st International Conference on Technologies for Sustainable Waste Management in Developing Countries –ICTW, Vignan University, Vadlamudi,Guntur(dist), Andhra Pradesh ,India,ISSN: 0959-3330, August 23-24, 2013.
Mr. C. Subba Rao Journals: 1. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “Experimental Investigation on the Performance Improvement of Biogas Plant” / International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 3, Issue 3, May-Jun 2013, pp.1218-1223. 2. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy “Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material” / Journal of Procedia Engineering , Elsevier , ISSN: 1877-7058. July 18-20, 2013. 3. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel” / Environmental Technology Journal by Taylor & Francis Online ISSN: 0959-3330, August 23-24, 2013. 4. Subbarao Chamarthi, Praveen kumar Bannaravuri, Anil Elisa Chandra “Experimental Investigation on Design Parameters of Pneumatic Collapsible Steering” / IFToMM research journal, published by Elsevier, Impact Fcator-1.214, ISSN: 0094-114X. 5. Subbarao Chamarthi, N.Srinivasa Reddy, Ch Chandra Mouli “Investigation Analysis on Design and Modification of a Conventional Floating Dome Digester” / International Journal of Computational Engineering Research (IJCER), ISSN: 2250-3005, 25th June -2013. 6. Subbarao Chamarthi, Dr. Purnanand V Bhale, N.Srinivasa Reddy, Ch Chandra Mouli “ Laboratory scale experiments for biogas production using gas chromatography analysis” / International organization of scientific research (IOSRJEN), ISSN: 2250-3021, 27th July - 2013. Conferences: 1. Subbarao Chamarthi, N.Srinivasa Reddy, Manoj Kumar Elipey, D v Ramana Reddy “ Investigation Analysis of Plasma arc cutting Parameters on the Unevenness surface of Hardox-400 material” / International Conference on Design and Manufacturing (IConDM2013), IIITD&M Kancheepuram,Chennai, INDIA, ISSN: 1877-7058. July 18-20, 2013. 2. Subbarao Chamarthi, N.Srinivasa Reddy, G Ravi Chandra “ Experimental Analysis on long term storage issues of vegetable oil and biodiesel fuel” / 1st International Conference on Technologies for Sustainable Waste Management in Developing Countries –ICTW, Vignan University, Vadlamudi,Guntur(dist), Andhra Pradesh ,India,ISSN: 0959-3330, August 23-24, 2013. 3. Subbarao Chamarthi, Praveen kumar Bannaravuri, Anil Elisa Chandra “Experimental Investigation on Design Parameters of Pneumatic Collapsible Steering” / 1st International Conference and 16th National Conference on Machines and Mechanisms- iNaCoMM-2013, IIT Roorkee between December 18 to December 20, 2013. 4. Subbarao Chamarthi,Ch Chandra Mouli, Greeshma Reddy, Manikanth Reddy “Performance characteristics of “Vapour compression refrigeration system” using R-22 and R-407 Refrigerants”/ 22nd National and 11th ISHMT-ASME Heat and Mass Transfer Conference Organized by IIT Kharagpur-India, December 28-31, 2013. 5. Subbarao Chamarthi, N.Srinivasa Reddy, D v Ramana Reddy, Ch Chandra Mouli “Investigation Analysis on Different Operational Parameters of Solar Air Heaters- A Review”/ Conference on New & Renewable Energy Technologies held by PSG College of

Coimbatore, 27 th April, 2013.
6. Subbarao chamarthi, Tarun Mandarapu "Design of Shape Memory Alloys –Smart materials"/ National Conference connaissance '08 organized by JNTU – Hyderabad.
Mr. S. Naresh Kumar Journals: 1. B. Venkatesh, S.V.Prabhakar Vattikuti, D.V. Ramanareddy, S. Naresh Kumar, V.Kamala, AMK Prasad "Effect of bending stress on steel alloy of Helical Gear for High Speed Applications" IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2013 ISSN : 2278-1684.
Mr. M.Vishnu Vardhan Journals: 1. M Vishnu Vardhan, M Suresh Kumar, "Seismic Analysis of Electric Panel", International Journal of Mechanical Engineering Research, Vol 3, pp. 83-90, Issue 2, 2013, ISSN:2249-0019. Conferences: 1. M Vishnu Vardhan, M Suresh Kumar, "Seismic Analysis of Electric Panel", 2 nd World Conference on Applied sciences, Engineering and Technology, GITAM University, Hyderabad, March 2013

- * Number of papers published in peer reviewed journals (national / international) by faculty and students **48**
- * 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.) **48**

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:
90 of the students have done their projects in-house
 - b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:
10 % of the students have done their project at DLRL / HAL / BDL / other.

23. Awards/ Recognitions received by faculty and students:
Faculty: **NIL**

Students:

GOLD MEDAL

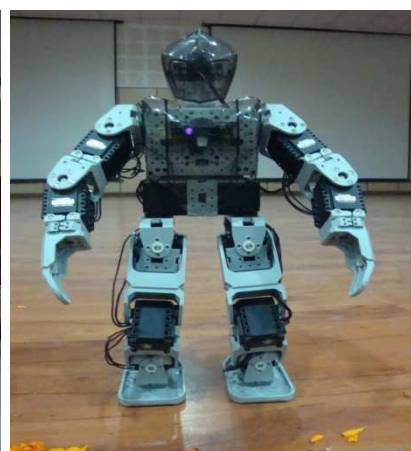
Ms. A. N.S. Aparna (07881A0306) all JNTUH Affiliated Engineering Colleges (Mechanical Engineering Branch Topper)

Special Student Awards

S. No	Name of the Student	Roll No	Patent Number	Patent Title
1	K. Prudhvi Kumar Reddy	09881A0361	10,562,764	O Fuel Car
2	K. Prudhvi Kumar Reddy	09881A0361	10,548,644	Behaviour of Halgones in Vaccum
3	K. Prudhvi Kumar Reddy	09881A0361	10,563,984	Solar Degradation
4	K. Prudhvi Kumar Reddy	09881A0361	10,548,698	Effect of Earths Magnetic Poles on Electric Discharge
5	K. Prudhvi Kumar Reddy	09881A0361	10,548,685	B.H.A.S.K.A.R
6	K. Prudhvi Kumar Reddy	09881A0361	9,599,164	Super Hallow Inducto Laminatory Device
7	K. Prudhvi Kumar Reddy	09881A0361	10,591,502	Anti Gravitation Shoes
8	K. Prudhvi Kumar Reddy	09881A0361	10,562,211	Ethical Hacking
9	K. Prudhvi Kumar Reddy	09881A0361	10,548,852	Strato Energy
10	K. Prudhvi Kumar Reddy	09881A0361	10,592,325	Electricity from Sound
11	K. Prudhvi Kumar Reddy	09881A0361	78788622	Prediction of Rainfall Using Pressure Points, Image Processing and Data Mining

Participated in different events

- Third mechanical students Rama Ashwin, Navya Sahithi, K Swetha Reddy and S.Rajendra Reddy has coordinated EYEBOLT - ROBO GENESIS work shop - TECHNOLOITES 2K12



- Mr. Saaju bhargav of third Year Mechanical Engineering Department has played in HYDERABAD CRICKET ASSOCIATION(HCA) League matches on 1&2 August 2012 and 102 runs and team has won the Match.



6 క్యాచ్లు, 1 స్టంపింగ్

హైదరాబాద్, న్యూస్ టైమ్స్: ఆరు క్యాచ్లు... ఓ స్టంపింగ్... బ్యాటింగ్లో (77) అర్ధసంపరీ... ఎ-2 డివిజన్ వన్ క్రికెట్లో బ్యాట్స్ మన్, కీపర్ భార్గవ్ అద్భుతమైన ప్రదర్శన చూపడంతో సీసీ అవర్స్ జట్టు చక్కని విజయాన్ని అందుకుంది. బుధవారం ఇక్కడ జరిగిన మ్యాచ్లో 12 పరుగుల స్వల్ప తేడాతో బారాజ్ కోట్స్ను ఓడించింది. తొలుత బ్యాటింగ్ చేసిన అవర్స్ సీసీ 50 ఓవర్లలో 200 పరుగులకు ఆలౌట్ అయింది. తర్వాత బ్యాటింగ్లోకి దిగిన బారాజ్ కోట్స్ 50 ఓవర్లలో 188 పరుగులకు మాత్రమే పరిమితమైంది. శ్రీస్ కళ్యాణ్ (5/42), రణ దీర్ కుమార్ (3/70)లు క్రమం తప్పకుండా వికెట్లు తీశారు. ప్రదీప్ (84), శ్రీకాంత్ (40 నాటౌట్) మెరుగ్గా ఆడారు.

- Mr. Saaju bhargav, Mr. Vamshi Krishna, Mr. Prathap singh students of third year mechanical Engineering Department have been participates in BSIT Cricket tourney during academic year 2012-13.

S. No.	Name of the Program	Venue	Date(s)	Name of Student	Recognition/Awards
1	Paper Presentation	Vijaya Krishna College of Technology	10-03-2012	K. Prateek	2 nd Prize
2	Paper Presentation	Vijaya Krishna College of Technology	10-03-2012	Y. Murali Mohan	2 nd Prize
3	Paper Presentation	Aurora's Seethaiah Engineering College	14-03-2012	Virat Sharma and P. Abhilash	2nd Prize
4	Poster Presentation	College of Aeronautical Engineering	15-03-2012 to 16-03-2012	P. Abhilash	1st Prize
5	Minute to Win	Vasavi College of Engineering	16-03-2012	S Ragavendra Reddy	1st Prize
6	Auto Crat	Vasavi College of Engineering	16-03-2012	A Suraj Kumar	1st Prize
7	Suspension Bridge	Vasavi Engineering College	16-03-2012 to 17-03-2012	M Navya Tejaswini and Adithya	1 st Prize
8	Catapult Making	Vasavi College of Engineering	16-03-2012 to 17-03-2012	G. Naveen Kumar	1st Prize
9	Paper Presentation	Bandari's Group of Institutions`	17-03-2012 to 18-03-2012	Virat Sharma	1st Prize
10	Paper Presentation	Bandari's Group of Institutions`	17-03-2012 to 18-03-2012	P. Abhilash	1st Prize
11	Paper Presentation	J.B College of Engineering & Technology	28-03-2012 to 29-03-2012	P. Abhilash	2nd Prize
12	Paper Presentation	J.B College of Engineering & Technology	28-03-2012 to 29-03-2012	Virat Sharma	2nd Prize
13	Robotics	TKR College of Engineering & Technology	21-03-2012	S Ragavendra Reddy and T Raghu Vishnu	2nd Prize
14	Paper Presentation	Padmasri Dr. B.V. Raju College of Technology	03-03-2011 to 04-03-2011	D. Narendra Kumar	1 st Prize
15	Paper Presentation	Padmasri Dr. B.V. Raju College of Technology	03-03-2011 to 04-03-2011	G. Anil Kumar	1 st Prize
16	Paper Presentation	JNTU Hyderabad	2011	D. Narendra Kumar	1 st Prize
17	Robo Zenith	Mahatma Gandhi College of Technology	17-03-2011 to 18-03-2011	Virat Sharma	1 st Prize
18	Robo Zenith	Mahatma Gandhi College of Technology	17-03-2011 to 18-03-2011	Sidharth Banda	1 st Prize
19	Mock Placements	Mahatma Gandhi College of Technology	17-03-2011 to 18-03-2011	Virat Sharma	1 st Prize
20	Where the mind is without fear	VNR Vignana Jyothi College of Engineering & Technology	14-02-2011 to 16-02-2011	N. Venkath Aditya	1 st Prize

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

S. No.	Name	Organization	Designation
1.	Dr .Sridhar Condoor	Saint Louis University, Texas	Professor
2.	Dr. T.Kishen Kumar Reddy	JNTU, Hyderabad	OSD to VC
3.	Dr. K. Hemachandra Reddy	JNTU, Annapur	Registrar
4.	Dr. B. Anjaneya Prasad	JNTU, Hyderabad	Professor

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National **MEET – 10**

b) International **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Tech (Mechanical)	-	-	-	-	NA
M. Tech – ED	-	-	-	-	NA

*M=Male *F=Female, NA = Not Applicable

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech (Mechanical)	100%	0%	0%
M. Tech – ED	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

GATE

2010 – 2011	2011- 2012	2012 -2013
2	2	3

GRE

2010 – 2011	2011- 2012	2012 -2013
6	8	10

Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	80 %	65 %	35 %
PG to M. Phil	0 %	0 %	0 %
PG to Ph.D.	1%	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL
Employed:			
• Campus selection	25%	80%	90%
• Other than campus recruitment	60%	12%	8%
Entrepreneurship/Self-employment	15%	8%	2%

29. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 53722 number of titles, 9851 number of volumes exclusively for MECH students and staff out of 866 number of total titles, 4738 number of total volumes.

A part from the above facility Department is having a separate departmental library facility for staff with 224 number of titles, 224 number of volumes. including scholarly journals with fully automation. Digital Library is also equipped with Internet facility. The College library being a member of the Developing Library Network (DELNET) has access to the vast resources of the latter and also it is a member of British Council and American Library.

Apart from the above facility Department is having a separate departmental library facility for staff.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that each faculty can conduct ICT Lectures in class room with the exclusive LCD Projectors and Laptops available in the department.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
Engineering Workshop Practice	Exclusive	203.3 Sq. M 45 Students /slot Experimental setup	18+2*	Good	Available
Mechanics of Solids Lab	Exclusive	134.8 Sq. M 36 Students /slot Experimental setup	10+2*	Good	Available
Machine Tools Lab	Exclusive	134.8 Sq. M 36 Students / slot 1 student per Machine	10+2*	Good	Available
Thermal Engineering Lab	Exclusive	134.8 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Heat Transfer Lab	Exclusive	159.6 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Production Technology Lab	Exclusive	159.6 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Metrology Lab	Exclusive	67.4 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Metallurgy and Material Science Lab	Exclusive	67.4 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Production Drawing and Instrumentation Lab	Exclusive	67.4 Sq. M 36 Students / slot 1 student per Equipment	10+2*	Good	Available
Mechanics of Fluids Lab	Exclusive	77.8Sq. M 36 Students / slot	10+2*	Good	Available

		1 student per Equipment			
Theory of Machines Lab	Exclusive	78.8 Sq. M 36 Students / slot 1 student per Experimental Setup	10+2*	Good	Available
CAD/CAM Lab	Exclusive	159.6 Sq. M 60 Students / slot 1 student per System	24 +2*	Good	Available
Research Lab	Exclusive	85.5 Sq. M Students & Faculty	-	Good	Available

* Additional Experiments

30. Number of students receiving financial assistance from college, university, government or other agencies:

of other agencies:

S No.	Name of the Course/ programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	B. Tech (Mechanical)	1 st	30	0
		2 nd	47	0
		3 rd	49	0
		4 th	52	0
	Total No. of B. Tech students		178	0
2	M. Tech – ED	1 st	05	0
	Total No. of M. Tech students		05	0
Total number of Students enjoying financial assistance			183	

31. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S No	Event
2012 – 2013	
1.	Two day IUCEE workshop on “IUCEE_PLM workshops_Phase-1” conducted by TCS technologies at Vardhaman College of Engineering from 21 st to 22 nd September, 2012.
2.	Two day NOX Technologies workshop on “ Design Criteria for manufacturing Products through softwares at Vardhaman College of Engineering 8 th to 9 th February, 2013.
3.	Two day workshop on ROBOTICS by EYEBOLT –ROBO GENSIS on image reorganization on 29 th to 30 th September, 2012.
2011 – 2012	
1.	Organized an ‘Industrial Setup Awareness Programme’ at Vardhaman College of Engineering, from 15 th July 2011 to 17 th July 2011.
2.	Two day National Seminar on Transformation of Students into industry –Suitable Work force at Vardhaman College Of Engineering, from 25 th November 2011 to 26 th November 2011.
3.	Organized an ‘Business Skill Development Programme’ at Vardhaman College Of Engineering, from 15 th July 2011 to 17 th July 2011.
2010 – 2011	
1.	Organized a ‘Motivation Campaign Towards Self Employment Program’ at Vardhaman College of Engineering on 11 th August 2010-14 th August 2010
2.	Organized a ‘Entrepreneur Development Program’ at Vardhaman College of Engineering on 13 th December 2010-17 th December 2010
3.	Program For Faculty Under NEN(National Entrepreneurship Network)at Vardhaman College of Engineering on 08 th September 2010- 11 th September 2010

2009 – 2010	
1.	One day Work Shop For students on 'The Entrepreneur spirit Get the Winning Edge ' at Vardhaman College Of Engineering on 4 th January 2010- 7 th January 2010
2.	Organized the 'Documentary Screening Activity on Team Building ' at Vardhaman College of Engineering on 9 th November 2009 to 14 th November 2009
3.	Organized a ' Household Electrical Wiring Practice' program at Vardhaman College of Engineering on 12 th October 2009-14 th October 2009

32. Teaching methods adopted to improve student learning
Group Discussions, Tutorials Classes, Student Seminars, Workshops and Industrial Visits, Role Playing, Model Making, Simulation, Brain Storming, Quizzes, Lecture Notes, Videos and Audios, Assignments etc..
33. Participation in Institutional Social Responsibility (ISR) and Extension activities

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 600 volunteers is actively engaged in service oriented activities along with an adopting the new village every year. NSS unit organizes Plantation, Conducting Women Welfare Programmes, Child Education and Providing Resources to Government Schools, Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. And also Participates in the Campaigns of Promoting the Importance of Literacy, Health , Indian Traditional Values through Media or Campaign Walks.

34. SWOC analysis of the department and Future plans

SWOC Analysis for the Organizational Structure of ME Department:

In carrying out the SWOT analysis for the ME Program, a balanced approach has been adopted which views all facilities in each section. The assessment of strengths and weaknesses are facilitated through surveys and information gathering activities of the committees and documentation in the department, and the evidence provided by the faculty and associates. The external look to identify opportunities and threats is considered complimentary to the internal self-study in the SWOT analysis. National and regional influences and concerns are of paramount importance when deciding about the strategies and actions to address the weaknesses. Furthermore, any strategic planning should also address the local and regional threats. Though no formal survey has been conducted to identify the opportunities and threats, group brainstorming, extensive consultations with knowledgeable faculty, review of local, regional and international developments, a thorough review of existing literature on engineering education, lead to the identification of the most relevant opportunities and threats. Table (1) shows the SWOT analysis for the organizational structure of the ME department.

Strategic Objectives:

A closer examination of the SWOT analysis reveals that college strategic plan, including ME Program, should focus on the improvements that are related to students, teaching methods, faculty, and facilities. Therefore, the following strategic objectives have been developed to address the weaknesses and threats related to various aspects of those issues...

1. Recruit, nurture and retain outstanding students.
2. Honoring, caring and retain outstanding faculty and staff.

3. Promote a strong sense of community and collegiality among the students, faculty, staff and alumni.
4. Improve teaching and learning through continuous assessment.
5. Promote research and consultation that address the immediate and long-term needs of the society.
6. Create a strong relationship with society in particular with industry to cooperate in the advancement of the country's economy.
7. Continue to develop and maintain an adequate infrastructure.

STRENGTHS (INTERNAL)	WEAKNESSES (INTERNAL)
1. Faculty a. A very good experience in academic education for the faculty members b. A very good number of young and dynamic faculty members c. Sufficient number of faculty members d. Excellent and versatile academic backgrounds. e. Great loyalty and affiliation to the department, college and university for most faculty members. f. Good salaries and wages. 2. Curriculum a. Designed to meet both local needs and International Standards. b. Strong engineering science components. c. Availability of a good variety of general education subjects. d. A well structured laboratory experience e. A strong Professional Component. f. There is constancy throughout the years of study in the process of "pumping" subjects from the specialties of the department, so that there is no gap in the four years of study where the student does not take a subject from one of these specialties. 3. Acceptable equipped laboratory, library and Computer facilities. 4. A Very well Specifically defined responsibilities and authorities for all committees of the department. 5. The long and rich history, as well as good reputation of the department. 6. Large and continuous desire for development, and strong motivation for service for most employees of the department. 7. Good social relationships between employees of the department. 8. Good relationships between employees and students of the department.	1. Deficiencies in certain outcomes in graduating Students a. Communication skills. b. Design / real world applications. c. Contemporary technical and economic issues. d. Impact of engineering solutions in a global and societal context. 2. Quality and quantity of current students. a. The lack of motivation to excel. b. The culture of being "spoon-fed". c. Inadequate language preparation. d. Inadequate training in critical or analytical thinking. 3. Inappropriate mode of teaching. a. Inadequate classroom assessment. b. Increasing proportion of new faculty with limited teaching experience due to inadequate training programs for development. 4. Large proportion of faculty with limited industrial and research experience. a. Poor rehabilitation programs for faculty members. b. Poor relationship with international research centers and academic institutions. 5. Inconsistencies in the quality of supporting staff. a. Engineers (Teaching Assistants). b. Technicians. c. Secretarial and administrative staff. 6. Insufficient space for expansion. a. Limited extension and expansion of the department, allowing being productive. b. Limited excellence for scientific research locally and regionally. 7. Complicated decision-making process at the College level. a. Complicated and restrictive purchasing procedures. b. Complicated and restrictive hiring procedures. 8. Insufficient funding for; a. Research. b. Teaching improvement. c. Hiring adequate human resources. d. Maintaining and upgrading facilities.

	9. Weak contact and weak alumni relations.
OPPORTUNITIES (INTERNAL)	CHALLENGES (INTERNAL)
- Available faculty development opportunities. - Institutional support for sabbaticals travels. - Availability of international conferences, workshops, seminars etc. - Possibility of utilizing local talent for teaching and research. - Emerging technologies. - Technologies that does not require extensive industrial infrastructure. - Information based technologies. - New trends in multi-disciplinary professional education and new teaching methods. - Possibility of re-designing curriculum and by-laws to allow multi-disciplinary teaching and learning. - Possibility of utilizing e-learning and distance education. - Young and dynamic society. - A good pool for potential students. - Readiness to accept changes. - Good case for the security of the local community and environment. - High proportion of demand for higher education in Iraq. - High rate of population growth in Iraq. - The presence of government financial support for official universities - Similar programs and study areas with those in other Universities within and outside of Iraq. - Developing good relationships with alumni. - Interdisciplinary teaching.	- Competition (local, regional and global). - Emerging local and regional private colleges. - Accessibility of international schools via distance education. - Fast pace of developments in technology (e.g. IT, emerging new fields). - Start the establishment of private universities in neighboring countries and the opening of branches in Iraq. - Weaknesses in general level of scientific awareness in the community. - Declining interest in engineering. - Lack of sufficient number of quality students with strong interest in engineering. - Inadequate public awareness for engineering profession and job opportunities. - Quality of incoming students (language analytical thinking, motivation). - Instability of the country situation (political, security, economic... etc.

STRENGTHS (EXTERNAL)	WEAKNESSES (EXTERNAL)
- A very good experience in academic education for a good number of the faculty members. - A very good number of young and dynamic faculty members. - Sufficient number of faculty members. - The long and rich history, as well as the good reputation of the department.	- Deficiencies in certain outcomes in graduating students. - Communication skills. - Design / real world applications. - Contemporary technical and economic issues. - Impact of engineering solutions in a global and societal context. - Quality and quantity of current students. - The lack of motivation to excel. - The culture of being "spoon-fed".

5. Good relationships between employees and students of the department.	c. Inadequate language preparation. d. Inadequate training in critical or analytical thinking. 3. Inappropriate mode of teaching. a. Inadequate classroom assessment. 4. Weak contact and weak alumni relations.
OPPORTUNITIES (EXTERNAL)	CHALLENGES (EXTERNAL)
1. Emerging technologies. a. Technologies that does not require extensive industrial infrastructure. b. Information based technologies. 2. New trends in multi-disciplinary professional education and new teaching methods. a. Possibility of re-designing curriculum and by-laws to allow multi-disciplinary teaching and learning. b. Possibility of utilizing e-learning and distance education. 3. Young and dynamic society. a. A good pool for potential students. b. Readiness to accept changes. 4. Good case for the security of the local community and environment. a. High proportion of demand for higher education in Iraq. b. High rate of population growth in Iraq. 5. The presence of government financial support for official universities 6. Developing good relationships with alumni. 7. Interdisciplinary teaching. 8. Good opportunities for investment in Iraq.	1. Competition (local, regional and global). a. Emerging local and regional private colleges. b. Accessibility of international schools via distance education. c. Fast pace of developments in technology (e.g. IT, emerging new fields). d. Start the establishment of private universities in neighboring countries and the opening of branches in Iraq. e. Weaknesses in general level of scientific awareness of society. 2. Declining interest in engineering. a. Lack of sufficient number of quality students with strong interest in engineering. b. Inadequate public awareness for engineering profession and job opportunities. 3. Quality of incoming students (language, analytical thinking, motivation). 4. Instability of the country situation (political, security, economic... etc.)

Evaluative Report of the Aeronautical Engineering

1. Name of the department : **Aeronautical Engineering**
2. Year of Establishment : **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
B. Tech : Aeronautical Engineering	Nil

4. Names of Interdisciplinary courses and the departments/units involved: **NIL**
5. Annual/ semester/choice based credit system (programme wise): **UG Semester Based**
6. Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.
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	1	1
Associate Professors	3	0
Assistant Professors	8	11

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

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. P Srinivas Rao	Ph.D	Professor	CFD	15
2	A Amala	B.TECH	Assistant Professor	Aeronautical Engineering	2
3	G Shivakrishna	B.TECH	Assistant Professor	Aeronautical Engineering	2
4	V Raghavender	B.TECH	Assistant Professor	Aeronautical Engineering	2
5	A Bhargav	B.TECH	Assistant Professor	Aeronautical Engineering	1
6	H Jeevan Rao	B.TECH	Assistant Professor	Aeronautical Engineering	1
7	P Krupakar	B.TECH	Assistant Professor	Aeronautical Engineering	1
8	V Anil kumar	M.TECH	Assistant Professor	Aeronautical Engineering	1

9	V Varun	M.TECH	Assistant Professor	Cryogenic Engineering	1
10	M Rambabu	B.TECH	Assistant Professor	Aeronautical Engineering	1
11	G Rajesh	B.TECH	Assistant Professor	Aeronautical Engineering	2
12	A Bhargava Chary	B.TECH	Assistant Professor	Aeronautical Engineering	2

11. List of senior visiting faculty: **Nil**

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **No temporary faculty are in rolls**

13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	16	240	1:15

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

	Sanctioned	Filled
Academic Support Staff	9	9
Administrative Staff	1	1

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

Qualification	No. of faculty
PG (ME / M. Tech)	3
Ph. D	1

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

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

18. Research Centre / facility recognized by the University: **Dr S. Deva Prasad**
Block – 3, 1st Floor, Vardhaman College of Engineering

19. Publications:

* a) Publication per faculty

Dr. P Srinivas Rao International Journals 1. Apparao K, Srinivasa Rao P and Rajagopal K, "Modelling of Multiple Injections of HCCI Engine Using Computational Fluid Dynamics" International Journal of Theoretical and Applied Mechanics, ISSN 0973-6085, Vol 5, Issue 2, pp.191-200, 2010. 2. Apparao K, Srinivasa Rao P and Rajagopal K, "Study of multiple injections in HCCI engine using computational fluid dynamics", Journal of Mechanical Engineering Research, Vol 2, Issue 2, pp.91-99, March, 2010 3. Srinivasa Rao P, Rajagopal K, "A CFD analysis on stratified scavenging system with EGR in two stroke internal combustion engines", International Journal of Computational and Applied Mathematics, ISSN 0101-8205, vol 112, 2008 4. Srinivasa Rao P, Rajagopal K, "A CFD analysis on stratified scavenging system of medium capacity two stroke Internal Combustion Engines", Thermal Science, Vol 12, Issue 1, pp.33 - 42, 2008. 5. Srinivasa Rao P, Rajagopal K, "Stratified Scavenging System for Higher CC engine
--

using CFD”, International Journal of Computations and Applied Mathematics SBMAC -Sociedade Brasileira de Matemática Aplicadae Computacional Av. Trabalhador São Carlense, 400-Caixa Postal 668-São Carlos/SP-13560-970.

National Journals

1. P Srinivasa Rao and K Rajagopal, “CFD Analysis on stratified scavenging system in two stroke IC engines” Indian Journal of Environment and Eco planning, Vol 14, Issue 2, 2007(0.156).

International Conferences

1. Appa Rao K, Srinivasa Rao P, RajaGopal K, and Subbaiah G V, “Modelling of Homogeneous Charge Compression Ignition Engines” Computational Methods in Engineering and Sciences IC-CMES’ 09 8-10 Jan 2009.
2. P Srinivasa Rao and K Rajagopal, “A new type of stratified scavenging system for the two stroke IC engines” 7th ACFD Conference, NAL and IISc Bangalore, December 2007.
3. Srinivasa Rao P, “Numerical Methods for the Stochastic Landau-Lifshitz Navier-StokesEquations”, Symposium on Novel Ideas in CFD (SONIC-07) held on 14th and 15th Nov. 2007 at I2IT campus.
4. P Srinivasa Rao and K Rajagopal, “Study of stratified Scavenging in Two Stroke IC engines using CFD” ICONICE-2007 International Conference on Internal combustion Engines.
5. P Srinivasa Rao and K Rajagopal, “Study of charge short circuiting Stratified scavenging in two stroke IC engines”, ASME Conference on IC engines ICEM 2005 Canada-2005.

BOOKS

CFD Analysis of stratified Scavenging In Two Stroke IC Engines Computational Fluid Dynamics Analysis Of Stratified Scavenging Of Two Stroke Internal Combustion Engines

A Bhargav

International Journals

Bhargav A, Janaiah Naidu M, "Computational study on effects of shockwave on combustion and injected fuel by unconventional positioning of injectors" International Journal of Engineering Science and Invention, ISSN(Online):2319-6734, pp. 51-56, 2013.

International /National conferences

1. Bhargav A, Janaiah Naidu M, "Computational study on effects of shockwave on combustion and injected fuel by unconventional positioning of injectors", National Conference on Advances in Modelling and Analysis of Aerodynamic Systems (AMAAS), National College of Technology(NIT), Rourkela, India, 2013.
2. Bhargav A, Janaiah Naidu M, "Computational study on effects of shockwave on combustion and injected fuel by unconventional positioning of ramp", World Conference on Applied Sciences Engineering and Technology in GITAM, Hyderabad, India, 2013.

V.Raghavender

International Journals

V Raghavender, “Computational Aerodynamic Analysis on Store Separation from Aircraft using Pylon”, International Journal of Engineering Science and Invention, ISSN(Online):2319-6734, pp. 27-31, 2013

International /National conferences

1. V Raghavender, “Computational Aerodynamic Analysis on Store Separation from Aircraft using Pylon”, National Conference on Advances in Modeling and Analysis of Aerodynamic Systems (AMAAS-2013), National College of Technology, Rourkela, Odisha, 1-2nd March, 2013.
2. V Raghavender, “Computational Aerodynamic Analysis on Store Separation”, 2nd

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

a) National committees : **NIL**

b) International Committees : **NIL**

c) Editorial Boards....

1. Dr. P.Srinivas Rao is Chief Editor of "International Journal of Fluid dynamics and Aerospace Engineering".
2. Dr. P.Srinivas Rao is Editorial Board member of "British Journal of Applied Science and Technology".
3. Dr. P.Srinivas Rao is Editorial Board member of "British Journal of Engineering and Technology".

22. Student projects

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

88 % of the students have done their projects in-house

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

12% of the students have done their project at DLRL, HAL, RCI, BDL.

23. Awards/ Recognitions received by faculty and students:

Faculty: Nil

Students:

S.No	Name of the Candidate	Name of event	Host Organization	Prize
1	K. Chandrakanth	Paper Presentation	NRI College of Technology	1 st
2	Mr.R. Bharat	Powered Gliders	Vardhaman College of Engineering.	2 nd
3	Mr. Naveen	Powered Gliders	Vardhaman College of Engineering.	2 nd

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

S. No.	Name	Organization	Designation
1.	Dr.K.Rajagopal	JNTU Hyderabad	Professor
2	Dr. Ramjee	JNTU Hyderabad	Associate Professor
3	Dr. Swamy Naidu	GITAM, Hyd Campus	Professor

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National

S.No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
1	ISTE CHAPTER	Technolites 2k12	13-14 October 2012	--	41
2011– 2012					
1	ISTE CHAPTER	Technolites 2K11	29-30 October 2011	7	48
2	ISTE CHAPTER	Technolites 2K10	08-09 October 2010	8	20

b) International : **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M *F	Pass percentage
B. Tech First year	60	43	32 11	100
B. Tech Second Year	60	44	33 11	100
B. Tech Third Year	60	52	39 13	100
B. Tech Fourth Year	60	48	36 12	100

*M=Male F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech First year	100%	NIL	NIL
B. Tech Second Year	95%	5%	NIL
B. Tech Third Year	100%	NIL	NIL
B. Tech Fourth Year	98%	2%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket No	Examination	Rank or Score Secured
1	P.Venkatesh	08881A2121	Gate - 2012	2000
2	P.Shashider	08881A2106	Gate- 2012	346
3	Y.Madhu	09881A2113	Gate-2013	465
4	Zakariah.T	09881A2149	Gate-2013	1500
5	Shukur	09881A2101	Gate-2013	847
6	Arjun vyas	09881A2102	Gate-2013	463

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	10%	10%	10%
PG to M. Phil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	10%	40%	Nil
• Other than campus recruitment	30%	30%	Nil
Entrepreneurship/Self-employment			

*N/A: Not Applicable

30. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 53722 number of titles, 9851 number of volumes exclusively for Aero students and staff out of 356 number of total titles, 2213 number of total volumes.

A part from the above facility Department is having a separate departmental library facility for staff with 64 number of titles, 64 number of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department. Also all the laboratories are equipped with LCD projects.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
Engineering Work-shop	shared	230.3 Sq. M 36 Students /slot Experimental setup	12+2*	Good	Available
Engineering Drawing lab	shared	230.3 Sq. M 36 Students /slot Experimental setup	12+2*	Good	Available
Mechanics of solids lab	shared	230.3Sq. M 36 Students / slot Experimental setup	12+2*	Good	Available
Mechanics of fluids lab	shared	230.3Sq. M 36 Students / slot Experimental setup	12+2*	Good	Available
Computer aided Aircraft Engineering drawing lab	Shared	79.8Sq. M 36 Students / slot 1 student per system	25+4*	Good	Available
Aircraft production Technology lab	Shared	230.3Sq. M 36 Students / slot Experimental setup	25+4*	Good	Available
Aerospace vehicle Structures lab	Shared	230.3 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Flight vehicle design and Simulation lab	Shared	79.8 Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Aerodynamics and propulsion lab	Shared	230.3Sq. M 36 Students / slot 1 student per Experimental Setup	12+2*	Good	Available
Computer aided aircraft modeling and assembly lab	Shared	79.8 Sq. M 36 Students / slot 1 student per system	12+2*	Good	Available
Heat Transfer and CFD lab	Shared	79.8 Sq. M 36 Students / slot 1 student per system	12+2*	Good	Available
Computational Analysis of aircraft structures lab	Shared	79.8 Sq. M 36 Students / slot 1 student per system	12+2*	Good	Available

31. Number of students receiving financial assistance from college, university, government or other agencies:

S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	B. Tech (AERO)	1 st	38	0
		2 nd	32	0
		3 rd	27	0
		4 th	35	0

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

33. Teaching methods adopted to improve student learning

1. Higher usage of ICT: LCD/Web usage etc.,
2. Critical thinking assignments
3. Demonstration of mini and main projects
4. Expert lectures from industry professionals
5. Adoption of mentorship for overall development of students
6. Participation in Institutional Social Responsibility (ISR) and Extension activities

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

7. SWOC analysis of the department and Future plans

STRENGTHS;

- S1 The college is 10 years old with 7 UG and 7PG programmes out of which 4 programmes are accredited by NBA.
- S2 Located in good clean, open and safe environment away from residential and commercial areas.
- S3 Good civil infrastructure for classrooms, labs, library, lecture halls, seminar rooms, administrative blocks etc.
- S4 Reputed among top colleges in the list of 350 engineering colleges affiliated with JNTU, Hyderabad.
- S5 Qualified and well educated management that has broad outlook for academic endeavour and excellence.
- S6 Robust financial base with all student seats filled.
- S7 Provides friendly working environment.
- S8 Committed faculty with good retention ratio and team spirit.
- S9 R&D centre headed with budgeted fund allocation.
- S10 Good Training & Placement centre with TCS accreditation.
- S11 Air Conditioned labs with modern equipment and facilities.
- S12 Good library with digital facility and e- journals.

- S13 Availability of Wi Fi enabled networking and e- classrooms.
- S14 High Student discipline.
- S15 Produces Rank holders at university level.
- S16 Pass percentage is high with good overall results at university level.
- S17 Good Proctorial (Teacher- Protégé) relation for teaching- learning process.
- S18 There is a system of counseling and remedial classes for weak students.
- S19 Provides free transport facility to faculty.
- S20 Cordial teacher- student relationship.
- S21 Pay scales above standard AICTE norms and paid timely.
- S22 Alumni- College relationship exists. (loyal and committed in EEE)

WEAKNESSES:

- W1 No networking with other colleges and Colleges for resource optimization.
- W2 Fewer faculties with engineering Ph. D's.
- W3 No financial authority and delegation at faculty level.
- W4 Poor R&D output and project consultancy.
- W5 Few motivational incentives for faculty.
- W6 Weak Research and Industrial experience in faculty content.
- W7 Less than adequate research paper presentation by faculty.
- W8 No staff quarters on campus.

OPPORTUNITIES

- O1 Engineering consultancy to local industry.
- O2 Faculty pursuit for Ph.D's with local universities without academic and family disruption.
- O3 College- industry tie-ups for project work, consultancy, training and placements.
- O4 Develop technical and academic expertise in new fields.
- O5 R & D projects for market and industry.
- O6 Training hub for other Colleges.
- O7 Exchange programmes for faculty and students with other Colleges.
- O8 Institutional collaboration for academic and research engagements.
- O9 Develop trained and qualified faculty as industry trainers.

CHALLENGES

- C1 Present political scene in the state.
- C2 Mushroom growth of engineering colleges in the local environment.
- C3 Inability to meet industry demand and market challenge.
- C4 Insufficient external support and for learning training programmes.
- C5 Entry of foreign and other universities can lead to unequal competition. (viz: resource and reputation)
- C6 Diminishing availability of academicians to maintain faculty quality.
- C7 Low employability of pass-outs can influence less number of future students opting for engineering career.

EVALUATIVE REPORT OF CIVIL ENGINEERING

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

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

UG	PG
B. Tech : Civil Engineering	M. Tech: Structural Engineering

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

5. Annual/ semester/choice based credit system (programme wise):

UG	PG
Semester Based	Semester Based

6. Participation of the department in the courses offered by other departments:
Department doesn't offer interdepartmental services.
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :
Department doesn't have collaboration with other institutions.
8. Details of courses/programmes discontinued (if any) with reasons:

Nil

9. Number of Teaching posts:

Designation	Sanctioned	Filled
Professors	1	1
Associate Professors	3	5
Assistant Professors	8	6

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

S No.	Name	Qualification	Designation	Specialization
1.	Dr P. Janaki Ramulu	M. Tech., Ph. D	Professor	Engineering Design
2.	Mr. N. Venkat Rao	M. Tech.	Associate Professor	Structural Engineering
3.	Mr. S. S. Phani	M. Tech.	Associate Professor	Structural Engineering
4.	Ms. Y. RAGHAVA RANI	M. Tech.	Associate Professor	Structural Engineering
5.	Mrs. G. Hemalatha	M. Tech.	Associate Professor	Structural Engineering
6.	Mr. N. H. Maharaju	M. Tech.	Associate Professor	Structural Engineering
7.	Mr. M. Rajasekhar	M. Tech.	Assistant Professor	Environmental Engineering
8.	Mr. M. Siva Prasad	M. Tech.	Assistant Professor	Structural Engineering
9.	Mr. MA. Basheer	M. Tech.	Assistant Professor	Structural Engineering
10.	Mr. B. Ambalal	B. Tech.	Assistant Professor	Civil Engineering
11.	Mr. R. Udaya Naga Rajesh	B. Tech	Assistant Professor	Civil Engineering
12.	Mr. Mohammad Mu-zeeb	M.Tech	Assistant Professor	Structural Engineering

11. List of senior visiting faculty:
 - i. Dr. J.V. Gurusurthy, Professor, GPREC, Kurnool.
 - ii. Prof. NPN. Murthy, Professor, SSN, Ongole.
 - iii. Prof.P.Subba Rao, Professor, JNTU, Kakinada.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

No temporary faculty on roll

13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
B. Tech	8 + 4 (S&H)	240	1:15
M. Tech – ST	3	18	1:12

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

	Sanctioned	Filled
Academic Support Staff	3	3
Administrative Staff	2	2

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

Qualification	No. of faculty
PG (ME / M. Tech)	8
Ph. D	1

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

No on hand projects

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

S No.	Name of the faculty	Scheme	Funding agency	Sanctioned amount	Received amount
-	-	-	-	-	-

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

19. Publications:

* a) Publication per faculty

Dr. P.Janaki Ramulu

Journals:

- Perumalla Janaki Ramulu, A. Satish Babu, R. Ganesh Narayanan, S. Deva Prasad, P. Srinivasa Rao, "The behavior of Friction Stir Welded (FSW) sheets of AA6061-T6 during in-plane stretching test". Procedia Engineering (2013). (Accepted).
- S. Ravinder, S. Prakash, S. V. Vijay Kumar Raju, S. Raju, P. Janaki Ramulu, S. Narendar, "Design and analysis of pressure vessel assembly for testing of missile canister sections under differential pressures". Procedia Engineering (2013). (Accepted).
- P. Janaki Ramulu, R. Ganesh Narayanan, "Experimental evaluation and prediction of forming limit of FSW blanks made of AA 6061 T6 sheets at different weld orientations and weld locations". Materials Science and Engineering Technology (2013) 44, 527–540, DOI: 10.1002 /mawe.201300078.
- P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, "Influence of shoulder diameter and plunge depth on forming limit of friction stir welded sheets". International Journal of Advanced Manufacturing Technology, (2013), (Accepted).
- P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, "Influence of tool rotation speed and welding speed on forming limit of friction stir welded sheets". Proceedings of IMechE Part C: Journal of Mechanical Engineering Science (2012), DOI: 10.1177/0954406212463996.
- P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, Jayachandra Reddy, "Internal defect and process parameter analysis during friction stir welding of Al

6061 sheets". International Journal of Advanced Manufacturing Technology, (2012), DOI: 10.1007/S00170-012-4276-Z.

7. Perumalla Janaki Ramulu and R. Ganesh Narayanan 2012, "Weld zone representation during the formability prediction of friction stir welded blanks with dissimilar thickness", Materials Science and Engineering Technology, Volume 43: 241-252. DOI 10.1002/mawe.201200826.
8. P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, Jayachandra Reddy, 2012, "Formability evaluation of FSW blanks made of aluminum sheet: Influence of welding speed and tool rotation speed" Advanced Materials Research Vol. 410:287-290. DOI:10.4028 /www.scientific.net /AMR.410.287
9. Perumalla Janaki Ramulu and R. Ganesh Narayanan, 2011, "Comparing the weld zone representation methods during the formability prediction of friction stir welded blanks", AIP Conf. Proc. 1353, 213-218. DOI: 10.1063/1.3589517
10. Perumalla Janaki Ramulu and R. Ganesh Narayanan, 2011, "Predicting the forming limit of friction stir welded blanks". AIP Conf. Proc. 1353, 219-223. DOI: 10.1063/1.3589518.
11. Perumalla Janaki Ramulu and R. Ganesh Narayanan 2011, "Weld zone representation during the formability prediction of friction stir welded blanks with similar thickness". The Journal of Strain Analysis for Engineering Design, Volume 46: 456-478. DOI: 10.1177/0309 32471 140 44 73 .
12. B. Srinivas Naik, P. Janaki Ramulu and R. Ganesh Narayanan, 2010, "Application of a few necking criteria in predicting the forming limit of unwelded and tailor-welded blanks", The Journal of Strain Analysis for Engineering Design, Volume 45: 79-96. DOI: 10.1243/03093247JSA562

Conferences:

1. Perumalla Janaki Ramulu, A. Satish Babu, S. Deva Prasad, P. Srinivasa Rao, "The behavior of Friction Stir Welded (FSW) sheets of AA6061-T6 during in-plane stretching test". International Conference on Design and Manufacturing, IConDM 2013.
2. S. Ravinder, S. Prakash, S. V. Vijay Kumar Raju, S. Raju, P. Janaki Ramulu, S. Narendar, "Design and analysis of pressure vessel assembly for testing of missile canister sections under differential pressures". International Conference on Design and Manufacturing, IConDM 2013.
3. C. Labesh Kumar, S. Ravinder Reddy, K. Sai Ram, P. Janaki Ramulu, "A statistical study on supply chain in iron foundry", 1st KIIT International symposium on Advances in Automotive Technology, pp 33-35, 2013.
4. S. Ravinder Reddy, N. Jeevan Kumar, C. Labesh Kumar, P. Janaki Ramulu, "High velocity impact on composite panels made of Fiber Reinforced Plastics using FEM analysis", 1st KIIT International symposium on Advances in Automotive Technology, pp 36-41, 2013.
5. P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, "Influence of weld location and orientation on the formability of friction stir welded sheets made of Al 6061 alloy", International deep drawing research group (IDDRG), pp 668-672, 2012.
6. P. Janaki Ramulu, R. Ganesh Narayanan, "Sensitivity analysis of mechanical and geometric properties for weld zone representation of friction stir welded blanks during formability prediction, International Conference on Computational Methods in Manufacturing (ICMM), December 15-16, 2011, IIT Guwahati, India.
7. P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, Jayachandra Reddy, "Formability evaluation of FSW blanks made of aluminum sheet: Influence of welding speed and tool rotation speed", Twentieth International Symposium on Processing and Fabrication of Advanced Materials (PFAM XX) December 15-18, 2011, Hong Kong.
8. P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, Jayachandra Reddy, "Tensile behavior of FSW blanks made of aluminum sheet: Influence of welding speed and rotation speed. International conference on advances in materials and materials processing (ICAMMP-2011) pp.193, 2011. Kharagpur, India.
9. P. Janaki Ramulu, R. Ganesh Narayanan, Satish V. Kailas, Jayachandra Reddy,

“Formability evaluation of FSW blanks made of aluminum sheet: Influence of shoulder diameter and plunge depth” 49th National Metallurgists’ day and 65th annual technical meeting of the Indian College of Metals, 13-16 November 2011. 10. Perumalla Janaki Ramulu and R. Ganesh Narayanan, “Comparing the weld zone representation methods during the formability prediction of friction stir welded blanks”, The 14th International ESAFORM Conference on Material Forming AIP Conf. Proc. 1353, 213-218 (2011) 11. Perumalla Janaki Ramulu and R. Ganesh Narayanan, “Predicting the forming limit of friction stir welded blanks”, The 14th International ESAFORM Conference on Material Forming AIP Conf. Proc. 1353, 219-223 (2011) 12. Perumalla Janaki Ramulu, Nilesh Bondre and R Ganesh Narayanan, 2010, “Weld zone representation during the formability prediction of friction stir welded blanks with equal thickness”, 3rd International & 24th National conference All India Manufacturing Technology, Design and Research (AIMTDR) 2010, Volume 2: 989-994. 13. Perumalla Janaki Ramulu and R Ganesh Narayanan, 2009, “Representing weld zone during friction stir welded blank formability prediction”, 3rd International Congress on Computational Mechanics and Simulation (ICCMS-09), pp. 231-232. 14. Perumalla Janaki Ramulu and R Ganesh Narayanan, 2009, “Forming limit prediction of friction stir welded blanks”, 3rd International Congress on Computational Mechanics and Simulation (ICCMS-09), pp. 233-234. 15. Perumalla Janaki Ramulu, D. V. Ravi Shankar, C. V. S. Pavan Kumar Rao, SK. Salman Jani, 2008, “An investigation and co-relating the effect of retained austenite on impact properties of EN-19 steel subjected to thermo-mechanical treatments.” International conference on Emerging Technologies and applications in Engineering, Technology and Sciences (ICETAETS-08), pp. 1134-1136. 16. Perumalla Janaki Ramulu, D. V. Ravi Shankar, C. V. S. Pavan Kumar Rao, SK. Salman Jani, 2008, “The effect of retained austenite on fracture toughness of EN-19 steel subjected to thermo-mechanical treatments (An experimentation)” International conference on Emerging Technologies and applications in Engineering, Technology and Sciences (ICETAETS-08), pp. 1851-1855. Books: 1. Perumalla Janaki Ramulu, R. Ganesh Narayanan, Forming behavior of FSW sheets made of AA6061-T6 sheets, ISBN 978-3-659-43254-5, Lambert Academic Publications, 2013.	Mr N. Venkat Rao 1. “High Volume Fly Ash (HVFA) – a boon for preventing reinforcement corrosion” (2013), International Journal of Civil Engineering and Applications (IJCEA), Vol. 3 (7), ISSN No: 2249-426X. 2. “Performance Evaluation and Efficiency Assessment of a waste water treatment plant – a case study” (2013), International Journal of Engineering Research and Technology (IJERT), Vol. 2 (6), ISSN: 2278 – 0181. 3. “Tie Confined Glass Fiber Reinforced Self Compacting Recycled Aggregate concrete” (2013), IOSR-JMCE, Vol 7 (2), ISSN: 2320-334X. 4. Workers participation in management – Indian Economic Panorama, New Delhi. 5. Government – a Custodian or a spectator in corporate governance – Indian Economic Panorama, New Delhi. 6. Industrial Relations in Indian Industries in the present scenario, Indian Economic Panorama, New Delhi. S. S. S. Phani Journals: 1. Studies on High Strength Self Compacting Concrete Mixes Using mineral Admixtures, i-manager’s journal on Civil Engineering, Vol 2, Issue 3, pp. 22-27, June-August, 2012. 2. Effect Of Mineral Admixtures On The Behavior Of High Strength Self Compact-
---	---

ing Concrete Under Acid And Sulphate Attacks, Global J. of Engg. & Appl. Sciences, Rising Research Journal Publication, Vol 3, Issue 1, pp. 4-7, 2013. 3. High strength self compacting concrete using mineral admixtures, Indian concrete Journal proceedings, pp.42-47, March, 2013. 4. Evaluation of Relationship between mechanical properties of High Strength Self Compacting Concrete, American Journal of Engineering Research, 2013.
Mr M. Rajasekhar Papers Published: 1. "Performance Evaluation and Efficiency Assessment of a waste water treatment plant – a case study" (2013), International Journal of Engineering Research and Technology (IJERT), Vol. 2 (6), ISSN: 2278 – 0181. 2. "High Volume Fly Ash (HVFA) – a boon for preventing reinforcement corrosion" (2013), International Journal of Civil Engineering and Applications (IJCEA), Vol. 3 (7), ISSN No: 2249-426X.

- * Number of papers published in peer reviewed journals (national / international) by faculty and students **8**
- * 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.) **8**
- * Books with ISBN/ISSN numbers with details of publishers

Mr. N. Venkat Rao Books Published: 1. N. Venkata Rao, Consumer Behavior, Student helpline Publishing House Pvt. Ltd., ISBN: 978-93-80831-01-5.
--

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

d) National committees : **NIL**

e) International Committees : **NIL**

f) Editorial Boards....

22. Student projects

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

60 % of the students have done their projects in-house

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

40 % of the students have done their projects outside the institution

23. Awards/ Recognitions received by faculty and students:

Faculty: NIL

Students:

S.No	Name of The Candidate	Name of event	Host Organization	Prize
1	N.Chandra Sekhar	CINFRA-13	MGIT, Hyderabad	1 st
2	Chandra Sekhar	CONCREATORS	GITAM, Hyderabad	2 nd
3	Chaneskar	PRAMANA 2K13	GITAM, Hyderabad	2 nd
4	N. Chandra Sekhar	BATON FLO	Gokaraju Engg. College	appreciation

5	Chaneskar	ATMOS 2012	BITSP, Hyderabad	1 st
6	Tirupathi	CINFRA – 13	MGIT, Hyderabad	1 st
7	DT. Shashank	AAGMA 2K13	CBSR, Hyderabad	2 nd
8	K. Himabindu	SADQUESP-12	VNRVJIET, Hyderabad	2 nd

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

S. No	Title of the Programme	Resource Persons	Date of the Event	Target Audience	No. of students attended
2012 – 2013					
1.	Non-conventional Materials for Concreting	Dr.J.V.Gurumurthy	13 th Aug,2012	180	160
2.	Impact of Air Pollution on Historical Monuments	Dr.M.Viswanatham	8 th Feb,2013	180	175
2011 – 2012					
3.	Geo-Synthetics	Dr.P.John Victor	22 nd Sep,2011	180	178
4.	Fracture Parameters of Fiber reinforced concrete	Dr.P.Subba Rao	15 th Mar,2012	180	174
2010 – 2011					
5.	Affect of Expansive soils on Foundations	Dr.P.V.Satyanarayana	20 th July,2010	180	170
6.	Role of Civil Engineers in Building the Nation	Dr.Krishnamurthy	11 th Apl,2011	180	169

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National

S.No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
1	ISTE CHAPTER	Technolites 2k12	13-14 October 2012	--	180
2	ISTE CHAPTER	Seminar on Role of Civil Engineers in building the nation.	Sep 15	10	180
2011– 2012					
2	ISTE CHAPTER	Technolites 2K11	29-30 October 2011	10	120
2010 – 2011					
2	ISTE CHAPTER	Technolites 2K10	08-09 October 2010	4	60

b) International : **NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Tech (CE)					Not applicable
M. Tech – ST					Not applicable

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Tech (CE)	Admissions through Convener - EAMCET		
M. Tech – ST	Admissions through GATE/PGECE		

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket No	Examination	Rank or Score Secured
1	K. Shankar	09881A0136	Gate - 2013	260
2	M. Naveen Kumar	09881A0117	Gate - 2013	315
3	M. Anushaw Raghav	09881A0105	Gate - 2013	280
4	Shilpi Jha	09881A0138	Gate – 2013	300
5	P. Shiva Kumar	09881A0140	Gate – 2013	320

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	25 %	N / A*	N / A*
PG to M. Phil	N / A*	N / A*	N / A*
PG to Ph.D.	N / A*	N / A*	N / A*
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	-	*N/A	*N/A
• Other than campus recruitment	-	*N/A	*N/A
Entrepreneurship/Self-employment	-	*N/A	*N/A

*N/A: Not Applicable

30. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 312 number of titles, 1936 number of volumes exclusively for CE students and staff out of 9851 number of total titles, 53722 numbers of total volumes.

Apart from the above facility, Department is having a separate departmental library facility for staff with 82 numbers of titles, 82 numbers of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department. Also all the laboratories are equipped with LCD projects.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
Surveying lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	22*	Good	Available
Strength of Materials lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	12*	Good	Available
Fluid Mechanics and Hydraulics Machinery lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	12*	Good	Available
Engineering Geology lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	8*	Good	Available
Geo technical Engineering lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	11*	Good	Available
Environmental Engineering lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	14*	Good	Available
Concrete and Highway Materials lab	Exclusive	66 Sq. M 36 Students /slot Experimental setup	18*	Good	Available

31. Number of students receiving financial assistance from college, university, government or other agencies:

of Other Agencies:				
S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	B. Tech (CE)	1 st	30	0
		2 nd	24	0
		3 rd	34	0
		4 th	31	0
	Total No. of B. Tech students			0
2	M. Tech – ST	1 st	-	NA*
		2 nd	NA*	NA*
	Total No. of M. Tech students		-	N / A*
Total number of Students enjoying financial assistance				

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

The students are actively involved in all activities conducted by Technical Forums of the respective Departments besides participating in extra-curricular activities organized by NSS such as Blood Donation Camps, AIDS awareness programmes, Rural Health, Sanitation and Medical Camps. Also students enthusiastically participate in cultural events organized on important occasions like Freshers' Day, Graduation Day and Annual Day.

Students who have demonstrated their skills in Sports and Games are deputed to participate in Inter-collegiate and Inter-university tournaments.

Institutional Memberships

- Indian Society for Technical Education (ISTE)
- College of Electrical and Electronics Engineers (IEEE)
- College of Engineers (India) - Life member
- Computer Society of India (CSI)
- The Institution of Electronics & Telecommunication Engineers (IETE)
- Association for Computing Machinery (ACM)

Students Chapters of Professional Bodies

- Indian Society for Technical Education (ISTE)
- College of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

Technical Associations

The College has the following Technical Associations which conduct various co-curricular activities:

- CETA – Computer Engineers Technical Association (CSE)
- ETA – Electrical Technical Association (EEE)
- VIVECA – Viable Innovators of Vardhaman Electronics and Communication Engineers Association (ECE)
- TAIT – Technical Association of Information Technology (IT)
- MACHINE – **Mechanical Association for Creating Highly Innovative Engineers**
- VARADI – Vardhaman Association of Royal Architect Designers and Innovators

National Level Student Technical Paper Contest relating to all branches, “**TECHNO-LITES**”, is organized every year.

The Institution regularly organizes guest lectures by eminent academicians on emerging areas in Engineering and Technology and personality development. Students and faculty are encouraged to attend seminars, symposia and present papers for which the management extends financial support. Each Department conducts meetings of Technical Associations regularly and encourages students’ participation.

Orientation Day

At the time of admissions, orientation classes are arranged wherein the freshers and their accompanying parents are briefed about the College, facilities available and academic requirements. Matters pertaining to discipline, dress code, and regularity are highlighted and parents are invited to interact.

An exclusive Parents meet is arranged where in the Chairman of the Society and eminent personalities from different walks of life address the gathering. The parents interact with the faculty and Management on the occasion.

Fresher’s Day

After completion of the admissions and soon after commencement of class work, senior students arrange “Get-together” and welcome the Fresher’s to the campus.

Annual Day

The College Annual Day is celebrated in March every year on a grand scale. The colorful cultural activities are organized on that day.

Graduation Day

The college Graduation day is conducted in June every year. **Graduation** is the action of receiving or conferring an academic degree or the ceremony, where students become Graduates. The date of graduation is often called **degree day**.

Literary and Cultural Activities:

2012 – 2013			
S. No	Event	Venue	Date
1	ORTUS'13, Annual Day Celebrations	Vardhaman College of Engineering	02-03-13
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	01-03-13
3	Engineers Day Celebrations	Vardhaman College of Engineering	15-09-12
4	Teachers Day Celebrations	Vardhaman College of Engineering	05-09-12
2011 – 2012			
1	ORTUS'12, Annual Day Celebrations	Vardhaman College of Engineering	31-03-12
2	Traditional Day Celebrations	Open Auditorium, Vardhaman College of Engineering	30-03-12
3	Dandiya Celebrations	Vardhaman College of Engineering	01-10-11
4	E-Clats-2k11 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	12-08-11
2010 – 2011			
1	ORTUS'11, Annual Day Celebrations	Vardhaman College of Engineering	19-03-11
2	Traditional Day Celebrations	Vardhaman College of Engineering	18-03-11
3	Dandiya Celebrations	Vardhaman College of Engineering	14-10-10
4	E-Clats-2k10 – Interdepartmental Cultural Fest	Auditorium, Vardhaman College of Engineering	21-08-10

33. Teaching methods adopted to improve student learning

To enhance the learning ability of the students, the following strategies are adopted:

- Imparting substantial and valuable information by exposing them to practical case studies.
- Providing them abundant information on relevant topics of the subject concerned through power point presentations.
- Imparting additional knowledge to the students in E-class room through video lectures of experts in the relevant field.
- Providing real time experience by visiting project sites like flyovers, express ways and high rise structures.

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

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

35. SWOC analysis of the department and Future plans

Strengths • Trust • A professional and competent team • Industry Expertise • Online journals subscription	Weaknesses • Lack of sophisticated equipment
Opportunities • Faculty expertise to secure funding. • Awareness in on-going research works • Geographic location to develop consultancy	Challenges • Getting qualified faculty • Retention of faculty

EVALUATIVE REPORT OF MASTER OF BUSINESS ADMINISTRATION

1. Name of the department : **Master Of Business Administration**
2. Year of Establishment : **2006**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG	PG
Nil	MBA

4. Names of Interdisciplinary courses and the departments/units involved: **NIL**
5. Annual/ semester/choice based credit system (programme wise): **PG-Semester based**
6. Participation of the department in the courses offered by other departments:
Faculty will cater their services to other departments to satisfy the academic requirements of department specific subjects.
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	1	Nil
Associate Professors	2	Nil
Assistant Professors	5	9

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

S. No.	Name	Qualification	Designation	Specilization	No. of Years of Experience
1	K.JAAHNAVI	MBA(Ph.D)	Assistant Professor	Finance	7
2	G.RAMESH	M.Phil	Assistant Professor	Finance	8
3	K.SANTOSH KUMAR	MBA	Assistant Professor	Marketing	5
4	G.VINESH KUMAR	MBA	Assistant Professor	Finance	3
5	Y.PRAKASH	MBA	Assistant Professor	HR	2
6	K.SANDEEP KUMAR	MBA	Assistant Professor	HR	4
7	M.SUKADHAYINI	MBA	Assistant Professor	HR	2
8	B.SHEERISHA REDDY	MBA	Assistant Professor	Finance	1
9	P.RAVI SHANKAR RAM MANOHAR	MBA	Assistant Professor	Marketing	2

11. List of senior visiting faculty:
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **No temporary faculties are in rolls**
13. Student -Teacher Ratio (programme wise):

Program/Course	Total faculty members	Students	Faculty : Student
MBA	9	100	1:12

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

	Sanctioned	Filled
Academic Support Staff	NIL	NIL
Administrative Staff	NIL	NIL

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

Qualification	No. of faculty
PG (MBA)	8
MPhil	1

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

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

18. Research Centre / facility recognized by the University:

Dr. S. Deva Prasad

Block – 3, 1st Floor, Vardhaman College of Engineering

19. Publications:

* a) Publication per faculty

K.JAAHNAVI International Journals 1. Kola Jaahnavi <i>et al.</i> "Impact of Non-monetary Motivation on Employees with reference to Private Banks", IRACST- International Journal of Research in Management & Technology (IJRMT), ISSN: 2249-9563, Vol. 3, No.2, April 2013. pp. 71 - 73.
G.VINESH KUMAR International Journals 1. N. Vekat Rao, J. Mounika Reddy, G. Vineesh Kumar, B.Sheerisha Reddy"India the Land of Retailing", International Journal of Scientific Research and Management (IJRSM), Vol 1 Issue 3, pp. 150-156, 2013.
Y.PRAKASH National Journals 1. Y. Prakash, G Sandeep "Knowledge and Skill Key to Economic Growth", Indian Journal of Management Science, Vol III, pp. 28-37, April 2013.
K.SANTOSH KUMAR International Journal 1. Kushini Prasad, K.Santosh kumar" The impact of online marketing in India" Volume No.3(2013), Issue No.08(August) ISSN 2231-5756 2. B.SHEERISHA REDDY
International Journals 1. N. Vekat Rao, J. Mounika Reddy, G. Vineesh Kumar, B.Sheerisha Reddy"India the Land of Retailing", International Journal of Scientific Research and Management (IJRSM), Vol 1 Issue 3, pp. 150-156, 2013.

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: **NIL**

b) Percentage of students placed for projects in organizations outside the institution

i.e.in Research laboratories/Industry/other agencies:

100% of the students have done their project at ECIL, HBL, NATCO, ICICI, HDFC, Etc.

23. Awards/ Recognitions received by faculty and students:

Faculty: NIL

Students:

S.No	Name of The Candidate	Name of event	Host Organization	Prize
1	K. Hari krishna	Paper Presentation	CVSR COLLEGE	2 nd
2	K.Tanmai	Paper Presentation	Avanthi engg.college	2 nd

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

S. No.	Name	Organization	Designation
1.	Dr. AR.ARYASRI	JNTU Hyderabad	Professor
2.	Dr. B.SUDHIR	SVU TIRUPATHI	Professor
3.	Dr. RAMANENDAR LAL	SIDDARTH INSTITUTIONS	Professor
4.	Dr. SABITHA SRINIVAS	CVSR ENGG.COLLEGE	Professor

25. Seminars/ Conferences/Workshops organized & the source of funding:

a)National

S.No	Name of Professional Society / Chapter	Nature of Activity	Date	Participation Details (Number)	
				Faculty	Students
2012 – 2013					
a.					

b) International

Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M *F	Pass percentage
MBA First year	60	41	24 17	100
MBA Second Year	60	49	38 11	100

*M=Male F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MBA First year	100%	NIL	NIL
MBA Second Year	100%	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

S. No.	Name of the Student	Hall Ticket No	Examination	Rank or Score Secured
--	--	--	--	--

29. Student progression:

Student progression	Against % enrolled		
	2013	2012	2011
UG to PG	Nil	Nil	Nil
PG to M. Phil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil
Ph.D. to Post-Doctoral	N / A*	N / A*	N / A*
Employed:			
• Campus selection	Nil	12%	25%
• Other than campus recruitment	20%	60%	50%
Entrepreneurship/Self-employment	2%	5%	5%

*N/A: Not Applicable

30. Details of Infrastructural facilities :

a) Library

Vardhaman central library is having 559 titles, 4420 volumes exclusively for MBA students and staff out of 560 number of total titles, 4500 number of total volumes.

Apart from the above facility Department is having a separate departmental library facility for staff with 10 number of titles, 15 number of volumes.

b) Internet facilities for Staff & Students

Each faculty room is equipped with computers and internet connections. All systems in Labs and Department are provided with internet facility.

c) Class rooms with ICT facility

An exclusive fully equipped E-class room is available to conduct ICT lectures. Apart from that any class room can be provided with ICT facility with the exclusive LCD projects and Laptops available in the department. Also all the laboratories are equipped with LCD projects.

d) Laboratories

Curriculum Laboratory Description	Exclusive / Shared	Space, Number of Students	Number of Experiments	Quality of instruments	Laboratory manuals
NIL					

31. Number of students receiving financial assistance from college, university, government or other agencies:

S No.	Name of the Course/programme	Year	No. of students receiving financial assistance from state government (Fee Reimbursement / Scholarship)	No. of students receiving financial assistance from central government (Scholarship / Stipend)
1	MBA	1 st		0
		2 nd		0

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

33. Teaching methods adopted to improve student learning

PARTICIPATIVE LEARNING, CASE STUDY ANALYSIS, GROUP DISCUSSIONS

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

National Service Scheme (NSS) Unit:

Started in July 2000, now with strength of 110 volunteers is actively engaged in service oriented activities. NSS unit organizes Blood Donation camps, Free Medical Camps (including distribution of medicines) in surrounding villages and Fruit Distribution Camps for patients (Government General Hospital) on various occasions every year. Also Blood Donation Camp is organized on 19th March every year on the College premises with the cooperation of Government Medical College and Niloufer Hospital, Hyderabad.

35. SWOC analysis of the department and Future plans

The Department of MBA was established in the year 2006 with the aim of training competent business executives through its popular MBA programme. The department is endowed with highly qualified and experienced faculty drawn from industry and academic who have made significant contribution in their areas of expertise.

Today's world is evolving at the speed of light with advances in technology and global competition. Every student faced with the dilemma of 'what next', so we help the students in recognizing and identifying their latest potential and help them on the road to success. The students are taught to recognize critical concepts, identify risk situations and are encouraged to solve them. Students at VCE are to go through the journey of collaborating, sharing, practicing and learning together. In VCE the department of MBA promises an atmosphere of excellence which will take the students through the process of building individual competencies that are required for taking up professional and career related challenges. Students are provided with platform to work effectively as a team. All the learning activities incorporated within the college are largely and naturally and participative.

Mission:

- To impart management education synchronized with the needs of the Industry.
- To strengthen leadership qualities.
- To enhance the analytical and problem solving abilities.

Annexures

UGC 2(f) & 12(B) Recognition Letter

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

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in
F. No. 8-215/2012 (CPP-I/C)



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

August, 2012

The Registrar,
J.N. Technological University,
Hyderabad, Kukatpally,
Hyderabad – 500 085,
Andhra Pradesh.

L 4 SEP 2012

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

Sir,

I am directed to refer to the letter No. NIL dated 19.05.2012 received from the Principal, **Vardhaman College of Engineering, Shamshabad – 502 218, Hyderabad, Andhra Pradesh** on the above subject and to say that it is noted that the following college is **un-aided/self financed** and **permanently** affiliated to **J.N. Technological University, Hyderabad**. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head '**Non-Government, self financed** Colleges teaching upto **Master's Degree**' to make it eligible to receive Central assistance from sources other than UGC:-

Name of the College	Year of Establishment	Remarks
Vardhaman College of Engineering, Shamshabad – 502 218, Hyderabad, Andhra Pradesh.	1999	As the College is charging fee as per State/University norms and a certificate in this regard has been received in UGC. The College would also be eligible to get grant for all UGC schemes related to teachers and students only as per the decision of the Commission dated 8 th July 2011.

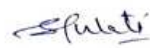
The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(M.K. Rewari)
Under Secretary

Copy to:-

- ✓ The Principal, Vardhaman College of Engineering, Shamshabad – 502 218, Hyderabad, Andhra Pradesh.
- The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
- The Secretary (Higher Education), Government of Andhra Pradesh, Secretariat Building, J-Block, 4th Floor, Hyderabad – 500 022, (Andhra Pradesh).
- The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Andhra Pradesh).
- Publication Officer (UGC-Website), New Delhi.
- Section Officer (FD-III Section), UGC, New Delhi.
- Guard file.


(Sunita Gulati)
Section Officer

AICTE First Approval Letter: 1999



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

Prof. B.G. Sangameshwara
Adviser(E&T)

F.No.730-50-298(E)/ET/99

August 5, 1999

To
The Principal Secretary to Government,
(Higher Education Department)
Govt. of Andhra Pradesh
407 'J' Block
Secretariat, Hyderabad - 500 022.

Sub: Corrigendum to AICTE approval to YARDHAMAN EDUCATIONAL SOCIETY, #103, BLUE CHIP ARCADE, 3-6-111, HIMAYATH NAGAR, HYDERABAD 500 029 for establishment of YARDHAMAN COLLEGE OF ENGINEERING, PARMALA, GADWAL, MAHABOONNAGAR DIST., ANDHRA PRADESH.

Sir,

In partial modification to this Council's approval letter of even file number dated July 28, 1999, I am to state that the course Mechanical Engineering may be read as Information Technology with an intake of 60.

Thus this makes the total courses and intake conducted by the institution for the year 1999-2000 as follows :

COURSE(S)	INTAKE	LEVEL	DURATION (YEARS)
COMPUTER SCIENCE & ENGINEERING	60	DEGREE	4
ELECTRONICS & COMMUNICATION ENGINEERING	60	DEGREE	4
INFORMATION TECHNOLOGY	60	DEGREE	4
Total	180		

All other conditions as communicated in our earlier letter dated 28.7.99 remain unchanged.

Inconvenience caused is highly regretted.

Ns...
PRINCIPAL
Yardhaman College of Engineering
Kacharam(V), Sirmansahad, R.R. Dist.



Yours faithfully,

Sangameshwara
(B.G. Sangameshwara)

इंदिरा गांधी खेल परिसर, इन्दौर एस्टेट, नई दिल्ली - 110 002
Indira Gandhi Sports Complex, I.P. Estate, New Delhi - 110 002
Phone : 3379010/11/12/13/15/16/17/18. Fax : 011-3379002



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

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

F.No. South-Central/1-1415111932/2013/EOA

Date: 19-Mar-2013

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

Sub: Extension of approval for the academic year 2013-14

Ref: Application of the Institution for Extension of approval for the academic year 2013-14

Sir/Madam,

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

Regional Office	South-Central	Application Id	1-1415111932
		Permanent Id	1-4904307
Name of the Institute	VARDHAMAN COLLEGE OF ENGINEERING	Institute Address	KACHARAM(VILLAGE), SHAMSHABAD(MANDAL), HYDERABAD, R.R.DISTRICT - 501218 ANDHRA PRADESH, HYDERABAD, RANGAREDDI, Andhra Pradesh, 501218
Name of the Society/Trust	VARDHAMAN COLLEGE OF ENGINEERING	Society/Trust Address	KACHARAM(VILLAGE), SHAMSHABAD(MANDAL), HYDERABAD, RANGAREDDI, Andhra Pradesh, 501218
Institute Type	Unaided - Private		

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

to conduct following courses with the intake indicated below for the academic year 2013-14

N. Subramanian



Application Number: 1-1415111932*

Page 1 of 4

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 4 April 2013.

Printed By : AE130687

PRINCIPAL
Vardhaman College of Engineering
Kacharam(V), Shamshabad, R.R. Dist.



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

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724163 www.aicte-india.org

Application Id: 1-1415111932			Course	FullTime	Affiliating Body	Intake 2013-13	Intake Approved for 13-14	No	No	Foreign Collaboration
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	36	36	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	36	36	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	EMBEDDED SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	24	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENGINEERING DESIGN	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS AND ELECTRICAL DRIVES	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	0	18	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	WIRELESS AND MOBILE COMMUNICATIONS	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	18	18	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AERONAUTICAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Kukatpally	60	60	No	No	No

Application Number: 1-1415111932*

Page 2 of 4

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 4 April 2013.

Printed By : AE130687

N. S. Sathish
PRINCIPAL
Vandana College of Engineering
Kukatpally, Hyderabad, A.P. 500 072





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

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

Application No: 1-1415111982			Course		Affiliating Body	Intake 2012-13	Intake Approved for 13-14	MOU	PIO	Foreign Collaboration
Program	Shift	Level		Full/Part Time						
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	60	60	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	180	240	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	90	90	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	240	240	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	120	120	No	No	No
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	90	120	No	No	No
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	60	60	No	No	No
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Jawaharal Nehru Technological University, Kukatpally	60	60	No	No	No

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

The above mentioned approval is subject to the condition that YARDHAMAN COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution

Application Number: 1-1415111982

Page 3 of 4

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 4 April 2013.

Printed By: AE130687

N. Sathya
PRINCIPAL
Yardhaman College of Engineering
Kacharam(V), Shamshabad, R.R. Dist.





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

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

along with the application submitted by the institution on portal.

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

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

(Dr. Kuncheria P. Isaac)

Member Secretary, AICTE

Copy to:

1. The Regional Officer,
All India Council for Technical Education
First Floor, old BICARD Building
Jawaharlal Nehru Technological University
Masab Tank, Hyderabad-500076
2. The Director Of Technical Education,
Andhra Pradesh
3. The Registrar,
Jawaharlal Nehru Technological University, Kukatpally
4. The Principal / Director,
VARDHAMAN COLLEGE OF ENGINEERING
KACHARAM(VILLAGE), SHAMSHABAD(MANDAL), HYDERABAD, R.R.DISTRICT - 501218 ANDHRA PRADESH,
HYDERABAD,RANGAREDDI,
Andhra Pradesh,501218
5. The Secretary / Chairman,
VARDHAMAN COLLEGE OF ENGINEERING
KACHARAM (VILLAGE), SHAMSHABAD (MANDAL),
HYDERABAD,RANGAREDDI,
Andhra Pradesh,501218
6. Guard File(AICTE)

Application Number: 1-1415111932

Page 4 of 4

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 4 April 2013.

Printed By : AE130687

N. S. S. S.
PRINCIPAL
Vardhaman College of Engineering
Kacharam(V), Shamshabad, R.R. Dist.



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



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

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

Procds. No.AAC/Permanent Affiliation/Vardhaman CE/2011.

Date: 02/08/2011

Sub: JNT University, Hyderabad – Academic Audit Cell – Grant of Permanent Affiliation to **"Vardhaman College of Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M), Ranga Reddy Dist"** from the Academic Year 2009-10 -Orders Issued.

Read: Letter No: Nil, dated: 27-04-2011 received from the Principal, Vardhaman College of Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M), Ranga Reddy Dist.

ORDER:

1. The Principal, **"Vardhaman College of Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M), Ranga Reddy Dist"** has submitted an application for grant of Permanent Affiliation under JNTUH. The University has examined the proposal on the basis of Fact Finding Committee Reports of the past three years and found no major deficiencies and the college has fulfilled all the conditions as laid out as per JNTUH norms.
2. Under the circumstances as stated above, the Vice-Chancellor is pleased to Grant Permanent Affiliation to **"Vardhaman College of Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M), Ranga Reddy Dist"** sponsored by "Vardhaman Educational Society, Kacharam (V), Nanajipur Post, Shamshabad, Ranga Reddy Dist." to offer UG/PG Degree Courses in the following disciplines with the intake shown against each from the Academic Year 2009-10.

SNo.	Name of the Course(s)	EXISTING INTAKE
1.	Computer Science & Engineering	120
2.	Information Technology	60
3.	Electronics & Communication Engineering	120
4.	Electrical & Electronics Engineering	90
5.	Mechanical Engineering	90
6.	Aeronautical Engineering	60
7.	Civil Engineering	60
8.	MCA	60
9.	MBA	60
10.	M.Tech-Wireless & Mobile Communication	18
11.	M.Tech-Power Electronics & Electrical Drives	18
12.	M.Tech-Computer Science & Engineering	18
13.	M.Tech-Digital Electronic & Communication Systems	36
14.	M.Tech-Software Engineering	18

Contd..2

The Permanent Affiliation shall be subject to the following conditions:

1. The Management shall follow the norms of AICTE and the rules of the affiliation of JNT University Hyderabad in all aspects.
2. The Management shall follow the Academic Regulations and examination schedule of JNT University Hyderabad.


REGISTRAR I/c

To
The Principal,
Vardhaman College of Engineering,
Kacharam Vil, Nanajipur Post,
Shamshabad (M), Ranga Reddy Dist -501 218.

Copy to:
The Chairman/Secretary, Vardhaman Educational Society, Kacharam (V), Nanajipur Post,
Shamshabad, Ranga Reddy Dist.
The Principal Secretary to Government Higher Education (EC-1) Dept, Govt. of Andhra Pradesh,
Secretariat, Hyderabad.
The P.A. to Chairman, Andhra Pradesh State Council of Higher Education, JNTU Old Campus, Masab
Tank, Hyderabad-500 028.
The Secretary, A.P. State Council of Higher Education, JNTU Old Campus, Masab Tank, Hyderabad-28.
The Commissioner of Technical Education, BRKR Govt. Office Complex, Hyderabad.
The Member Secretary, All India Council for Technical Education, New Delhi - 110002.
The Regional Officer, South Central Regional Office, AICTE, Masab Tank, Hyderabad - 500 028.
The Asst. Educational Advisor (T), Southern Regional Committee, AICTE, Ministry of Human Resource
Development (Dept. of Education), Shastry Bhavan 26, Haddous Road, Chennai-600 006.
Copy to the Director of Evaluation, JNTU, Hyderabad.
Copy to the PA to the Vice-Chancellor.
Copy to the PA to the Rector.
Copy to the PA to the Registrar.

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



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

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

Procds. No.AAC/Autonomous Status/Vardhaman CE-88/2011,

Date: 08/08/2011

Sub: JNT University, Hyderabad – Academic Audit Cell – Grant of Autonomous Status to
"Vardhaman College of Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M),
Ranga Reddy Dist" from the academic year 2011-12 to 2013-14 - Orders Issued.

Read: 1. Letter No: Nil, dated: 27-04-2011 received from the Principal, Vardhaman College of
Engineering, Kacharam Vil, Nanajipur Post, Shamshabad (M), Ranga Reddy Dist.
2. Univ.Procds No: AAC/Aff/Inspection-Autonomous Status/2011-12, dated: 07-07-2011,
3. FFC Report dated: 20-07-2011.
4. University Order No: JNTUH/63/2010, dated: 24-07-2010 for Guidelines and eligibility
criteria for grant of Autonomous Status.

ORDER:

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

SNo.	Name of the Course	EXISTING INTAKE
1.	B.Tech-Computer Science & Engineering	120
2.	B.Tech-Information Technology	60
3.	B.Tech-Electronics & Communication Engineering	180
4.	B.Tech-Electrical & Electronics Engineering	90
5.	B.Tech-Mechanical Engineering	90
6.	B.Tech-Aeronautical Engineering	60
7.	B.Tech-Civil Engineering	60
8.	MBA	60
9.	MCA	60
10.	M.Tech-Wireless & Mobile Communication	18
11.	M.Tech-Power Electronics & Electrical Drives	18
12.	M.Tech-Computer Science & Engineering	36
13.	M.Tech-Digital Electronics & Communication Systems	36
14.	M.Tech-Software Engineering	18

The Autonomous Status shall be subject to the following conditions:

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


REGISTRAR I/c

To
The Director / Principal,
Vardhaman College of Engineering,
Kacharam Vil, Nanajipur Post,
Shamshabad (M), Ranga Reddy Dist -501 218.

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