
HAND BOOK



2016-2017

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S. No.	ABBREVIATIONS	
1.	B.E	Bachelor of Engineering
2.	BME	Bio-Medical Engineering
3.	BoS	Board of Studies
4.	CCC	Central Computing Center
5.	CCT	Centre for Creative Technologies
6.	CDAAC	Curriculum development & accreditation audit cell
7.	CE/ CED	Civil Engineering Department
8.	CET	Centre for Energy Technology
9.	CEEP	Continuing Engineering Education Programmes
10.	CELT	Centre for English Language Training
11.	CFD	Computational fluid dynamics centre
12.	CSE	Computer Science & Engineering
13.	CPTIP	Center for Prototyping and Testing of Industrial Products
14.	ECE	Electronics & Communication Engineering
15.	ECTA	Engineering College Teachers Association
16.	EDC	Entrepreneurship Development Cell
17.	EE/ EED	Electrical Engineering Department
18.	IDC	Information Dissemination Centre
19.	IDIC	Industrial Development and Incubation Centre
20.	MCA	Master of Computer Application
21.	ME/ MED	Mechanical Engineering
22.	M.E./M.Tech	Master of Engineering/ Master of Technology
23.	MRE	Microwave and Radar Engineering
24.	NAAC	National Assessment and Accreditation Council
25.	NBA	National Board of Accreditation, New Delhi
26.	NERTU	Research & Training Unit for Navigational Electronics
27.	NSS	National Service Scheme
28.	PES	Power Electronic Systems
29.	PDS	Parallel and Distributed Systems
30.	PhD	Doctor of Philosophy
31.	PS	Power Systems
32.	PTPG	Part Time Post Graduate Courses
33.	R&D	Research & Development
34.	SSP	Systems and Signal Processing
35.	TDC	Technology Development Center
36.	TEQIP	Technical Education Quality Improvement Programme
37.	UCE	University College of Engineering
38.	UGC	University Grants Commission
39.	VLSI & ES	Very large scale integration & Embedded systems
40.	W.R.E	Water Resources Engineering



VISION & MISSION

Vision

The Vision of the Institute is to generate and disseminate knowledge through a harmonious blending of Science, Engineering and Technology. To serve the society by developing a modern technology in students' heightened intellectual, cultural, ethical and humane sensitivities, fostering a scientific temper and promoting professional and technological expertise.

Mission

- To achieve excellence in Teaching and Research.
- To generate, disseminate and preserve knowledge.
- To enable empowerment through knowledge and information.
- Advancement of knowledge in Engineering, Science and Technology.
- Promote learning in free thinking and innovative environment.
- Cultivate skills, attitudes to promote knowledge creation.
- Rendering socially relevant technical services for the community.
- To impart new skills of technology development.
- To inculcate entrepreneurial talents and technology appreciation programmes.
- Technology transfer and incubation.



ACADEMIC PROGRAMMES

The college presently offers six **undergraduate** courses and twenty five **postgraduate** courses which are aimed to inculcate a spirit of inquiry, stimulate the power of thinking, bestow both analytical and experimental abilities, and elicit interest in research. The courses offered to the students are focussed on encouraging spirit of entrepreneurship and self-employment apart from making them employable in any industry segment.

Doctoral programmes provide opportunities to pursue areas of research interest with a deep sense of satisfaction, to carry out independent investigations, to innovate and make a significant contribution to knowledge in specialized areas. Further, doctoral programmes synergetically promote intellectual and creative abilities to address fundamental and practical problems of regional and national relevance to enhance the quality of life.

Consultancy is an activity in which the college applies its specialized skills and expertise to solve industrial problems in specific areas. It represents not only a link between the academia and the local community, but is a response to the varying professional needs of the society at large. It is an affirmation of the resolve/commitment of the University to contribute to industrial growth, indigenous industrial development and quality of life in communities.

List of Courses Offered:

Under Graduate Programs: B.E (Full-Time)

S. No.	Course(s)	Duration (Yrs)	Year of Commencement	Sanctioned Intake*
1	Civil Engineering (CE)	4	1929	60
2	Mechanical Engineering (ME)	4	1939	60
3	Electrical Engineering (EE)	4	1949	60
4	Electronics & Communication Engineering (ECE)	4	1959	50
5	Bio-Medical Engineering(BME)	4	1982	30
6	Computer Science & Engineering(CSE)	4	1985	60

* An additional intake of 10 % of foreign students is offered in all courses.

* An additional intake of 10 % of lateral entry students into 2nd year is offered in all courses.



Post Graduate Programmes: M.E./M.Tech. (Full Time- 2 Years)

S.No.	Course(s)	Specialisations	Year of Commencement	Sanctioned Intake
1	Bio Medical Engineering	Bio Medical Electronics	2006	18
2	Civil Engineering	Structural Engineering	1961	25
		Water Resources Engineering	1961	10
		Geotechnical Engineering	1961	10
		Construction Engg. and Management	1961	15
		Infrastructure Engineering	2007	15
3	Computer Science & Engineering	Transportation Engineering	2008	15
		Computer Science & Engineering	1981	20
		Parallel and Distributed Systems	2007	15
4	Electronics & Communication Engineering	Embedded Computing Systems	2013	18
		Digital Systems	1964	13
		Microwave and Radar Engineering	1964	20
		Systems and Signal Processing	1964	13
		Embedded Systems & VLSI design	2006	13
5	Electrical Engineering	Railway Signalling and Telecommunication Engg.	2016	30
		Industrial Drives and Controls	1966	20
		Power Systems	1966	13
6	Mechanical Engineering	Power Electronics Systems.	2008	15
		Production Engg	1966	18
		Automation & Robotics	1998	13
		Turbo Machinery	1996	20
		CAD/CAM	2001	32
		Tool Design	2002	32
Design for Manufacture	2014	32		

Post Graduate Programmes: M.E./M.Tech. (Part Time – 3 Years)

S.No.	Course(s)	Specialisations	Year of Commencement	Sanctioned Intake
1	Civil Engineering	Structural Engineering	1966	15
		Transportation Engineering	2010	15
2	Computer Science & Engineering	Computer Science & Engineering	1991	25
3	Electronics & Communication Engineering	Digital Systems	1975	15
		Systems and Signal Processing	1975	15
4	Electrical Engineering	Industrial Drives and Controls	1971	15
		Power Systems	1971	15
5	Mechanical Engg.	Production Engineering	1994	15
		Automation & Robotics	1994	15
		Turbo Machinery.	1994	15



Post Graduate Program: MCA (Full Time- 3 Years)

S.No.	Course(s)	Specialisations	Year of Commencement	Sanctioned Intake
1	Computer Science & Engineering	Master of Computer Application	1990	60

Status of Ph.D. Research Scholars in Faculty of Engineering:

Year(batch)	BME		CSE		CE		ECE		EE		MED		Total at College level
	Part time	Full time											
2007-2008	-	-	11	1	4	-	9	1	5	-	9	-	40
2009-2010	-	-	19	3	22	1	7	-	15	-	34	2	103
2010-2011	65	-	35	3	34	2	38	2	10	2	46	-	177
2014				01				01		01			03
2015				01				05		01			07
2016				5+1				04					10
No. of guides	1		12		11		15		3		37		79
Ph.D's Awarded													
2012-2013	-		2		2		2		-		2		8
2013-2014	1		7		3		3		3		12		29
2014-2015	-		2		4		7		1		2		16
2015-2016				01			03				03		07

Note: Guides working only in Recognized Institutions has been shown.

NBA Accredited Programs

Under Graduate Programs: B.E (Full-Time)

S. No.	Course's	Accreditation
1	Bio-Medical Engineering	5Yrs (2013-18)
2	Civil Engineering	5Yrs (2013-18)
3	Computer Science & Engineering	5Yrs (2013-18)
4	Electronics & Communication Engineering	2Yrs (2013-15)
5	Electrical Engineering	5Yrs (2013-18)
6	Mechanical Engineering	5Yrs (2013-18)

Post Graduate Programs: M.E/M.Tech (Full-Time)

S. No.	Course's	Specializations	Accreditation
1	Civil Engineering	Structural Engg.	3Yrs (2013-16)
		Water Resources Engineering	3Yrs (2013-16)
2	Computer Science & Engg.	Computer Science & Engineering	3Yrs (2013-16)
3	Electrical Engineering	Power Systems	3Yrs (2014-17)
4	Mechanical Engineering	Production Engg	3Yrs (2013-16)
		Turbo Machinery	3Yrs (2013-16)



Academic Calendar



UNIVERSITY COLLEGE OF ENGINEERING (Autonomous)



OSMANIA UNIVERSITY, HYDERABAD

ACADEMIC CALENDAR for B.E.I & II SEMESTER (All Branches)2016-2017

S.No	B.E. I SEMESTER	
1	Commencement of Instruction	02 August 2016
2	Annual Academic Awards Function	02 September 2016
3	Engineers Day	15 September 2016
4	First Class Tests	19 to 21 September 2016
5	Submission of Test -I Marks on or before	28 September 2016
6	Dussara Vacation	10 to 15 October 2016
7	Recommencement of Instruction	17 October 2016
8	Second Class Tests	17 to 19 November 2016
9	Submission of Test -II Marks on or before	26 November 2016
10	Last Date of Instruction	26 November 2016
11	Submission of Sessional (CIE) Marks on or before	03 December 2016
12	Preparation Holidays and Practical Examinations	28 November to 10 December 2016
13	Theory Examinations (Main and Supplementary)	13 to 31 December 2016
B.E. II SEMESTER		
14	Commencement of Instruction	02 January 2017
15	Winter Vacation	09 to 16 January 2017
16	Recommencement of Instruction	17 January 2017
17	Parent-Teacher's Meet	27 January 2017
18	First Class Tests	27 & 28 February and 1 March 2017
19	Students Technical Symposia	03 & 4 March 2017
20	Submission of Test 1 Marks on or before	10 March 2017
21	Annual Sports Day	18 March 2017
22	Second Class Tests	20 to 22 April 2017
23	Submission of Test 2 Marks on or before	29 April 2017
24	Last Date of Instruction	29 April 2017
25	Submission of Sessional (CIE) Marks on or before	05 May 2017
26	Preparation Holidays, Practical Examinations & Project Viva-Voce	01 to 13 May 2017
27	Summer Vacation (Four Weeks)	15 May to 10 June 2017
28	Theory Examinations (Main and Supplementary)	15 to 31 May 2017
29	Commencement of Next Academic Year	03 July 2017



**UNIVERSITY COLLEGE OF
ENGINEERING
(Autonomous)**



**OSMANIA UNIVERSITY, HYDERABAD
ACADEMIC CALENDAR for B.E III & IV Sem and B.E.3/4 & 4/4
years (All Branches) 2016-2017**

S.No	B.E III-SEMESTER & B.E. 3/4 & 4/4 I-SEMESTER	
1	Commencement of Instruction	11 July-2016
2	First Class Tests	29, 30 & 31 August-2016
3	Annual Academic Awards Function	2 September-2016
4	Submission of Test -1 Marks on or before	9 September-2016
5	Engineers Day	15 September-2016
6	Dussara Vacation	8 to 15 October-2016
7	Second Class Tests	27, 28 & 29 October-2016
8	Submission of Test 2 Marks on or before	5 November-2016
9	Last Date of Instruction	5 November-2016
10	Submission of Sessional (CIE) Marks on or before	11 November-2016
11	Preparation Holidays and Practical Examinations	7 to 19 November-2016
12	Theory Examinations (Main and Supplementary)	21 November to 16 December-2016
B.E IV-SEMESTER & B.E. 3/4 & 4/4 II-SEMESTER		
13	Commencement of Instruction	19 December-2016
14	Winter Vacation	9 to 16 January-2017
15	Recommencement of Instruction	17 January-2017
16	Parent-Teacher's Meet	27 January-2017
17	First Class Tests	13, 14 & 15 February-2017
18	Submission of Test 1 Marks on or before	25 February-2017
19	Students Technical Symposia	3& 4 March-2017
20	Annual Sports Day	18 March-2017
21	Second Class Tests	6,7 & 8 April-2017
22	Submission of Test 2 Marks on or before	15 April-2017
23	Last Date of Instruction	15 April-2017
24	Submission of Sessional (CIE) Marks on or before	22 April-2017
25	Preparation Holidays, Practical Examinations & Project Viva-Voce	17 to 29 April-2017
26	Theory Examinations (Main and Supplementary)	1 to 27 May-2017
27	Summer Vacation (Four Weeks)	1 to 27 May-2017
28	Commencement of Next Academic Year	03 July 2017



**Almanac for ME/M.Tech for the Academic
year 2016-2017 (Regular-Time and Part-
Time)**



**UNIVERSITY COLLEGE OF ENGINEERING (Autonomous)
OSMANIA UNIVERSITY, HYDERABAD-500007**

S.No	Particulars	I - SEMESTER(Reg & PTPG), II - SEMESTER (PTPG)
1	Registration of Subjects and Commencement of Instruction	19 September-2016
2	Dussara Vacation	8 to 15, October-2016
3	Recommencement of Instruction	17 October-2016
4	First Class Test	9 to 11, November-2016
5	Submission of Test-1 Marks on or before	18 November-2016
6	Second Class Test	5 to 7, January-2017
7	Winter Vacation	9 to 16, January-2017
8	Submission of Test-2 Marks on or before	18 January-2017
9	Last Date of Instruction	21 January-2017
10	Display of Attendance and Sessional Marks	23 January-2017
11	Theory Examinations	30-January-2017 to 18-February-2017
12	Declaration of results	11 March-2017
13	Make- up Examinations	20-March -2017 to 8-April-2017
II -SEMESTER (Reg & PTPG), IV -SEMESTER (PTPG)		
14	Registration of Subjects and Commencement of Instruction	27 February-2017
15	First Class Test	20 to 22, April-2017
16	Submission of Test-1 Marks on or before	29 April-2017
17	Summer Vacation	1 to 27, May-2017
18	Recommencement of Instruction	29 May-2017
19	Second Class Test	6 to 8, July-2017
20	Submission of Test-2 Marks on or before	13 July-2017
21	Last Date of Instruction	15 July-2017
22	Display of Attendance and Sessional Marks	19 July-2017
23	Theory Examinations	24-July-2017 to 12-August-2017
24	Declaration of results	28-August-2017
25	Make- up Examinations	4 to 23-September-2017



**Almanac for ME/M.Tech Project Evaluation
& Submission for the Academic year 2016-
2017**



(Regular-Time and Part-Time)

**UNIVERSITY COLLEGE OF ENGINEERING (Autonomous)
OSMANIA UNIVERSITY, HYDERABAD-500007**

Sl. No.	Particulars	III-Semester (Reg) and V-Semester (PTPG)	IV-Semester (Reg) and VI-Semester (PTPG)
1.	Registration	19 September-2016	30 January-2017
2.	Project Seminar & (Presentation & Evaluation)	23 to 28 January-2017	--
3.	Last date of submission of Draft Dissertation & Internal Viva-Voce Examination	--	5 June-2017
4.	Internal Viva-Voce Examination	--	12 to 17 June-2017
5.	Submission of approved thesis by all students for External Evaluation	--	26 June-2017
6.	Conduct of External Viva-Voce Examination	--	3 to 8 July-2017
7.	Late Submission & Internal Viva-Voce Examination	--	10 to 15 July-2017
8.	Conduct of External Viva-Voce Examination (for Late Submission)	--	24 to 29 July-2017



INTRODUCTION

The University College of Engineering (UCE) has the distinction of being the oldest and the biggest among the Engineering Colleges of the State of Telangana. It was established in the year 1929, eleven years after the formation of Osmania University. The College was the sixth Engineering College to be established in the whole of British India. The College moved to its present permanent building in the year 1947. Today it is the biggest among the campus colleges of Osmania University. The Golden Jubilee of the College was celebrated in 1979, the Diamond Jubilee in 1989 and the Platinum Jubilee in 2004. The College was made autonomous in 1994. University Grants Commission of India conferred Autonomy status to the college for a period of 6 years (2010-11 to 2015-16).

The UG Programs offered by the departments of BME,CE,CSE,EE,ME have been Accredited by the National Board of Accreditation New Delhi for a period of 5 years and UG programme offered by ECE Department is Accredited by the NBA Accreditation New Delhi for a period of 2 years w.e.f. 05.08.2013. The University is accredited by NAAC with “A” Grade. University College of Engineering, O.U is the first Engineering College to get ISO 9001 Certification in Telangana State. University College of Engineering was awarded the best Engineering College by Indian Society for Technical Education (Telangana section) in the year 2010. University College of Engineering was adjudged as the Best Engineering College in the country for the academic year 2003-04 by Indian Society for Technical Education, New Delhi and by Star News for the years 2010-11 and 2011-12.

The college has successfully completed the Technical Education Quality Improvement Programme (TEQIP-I) under the World Bank financial assistance of Rs. 15.48 Crores during the period 2003-2008. The outcome of the project has resulted in: i) increase in pass percentage of UG/PG students, ii) enhancement of research publications of staff by three folds, iii) Introduction of Six PG programs in niche areas, iv) introduction of credit based system, and v) substantial increase in internal revenue generation.

The college has also been selected for the phase-II of TEQIP program for financial assistance of Rs. 12.5 Crores and additional grant of 5 Crores for best performance institution category. The emphasis is on strengthening PG and Research activities. A detailed plan is drawn for strengthening the existing PG programs and initiating new PG courses in the thrust areas. Also, a plan is drawn for augmenting research activities. Recently the institute has been approved as a minor center under QIP for full time PhD programs.



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 UGC Nominnee
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 Telangana State Government Nominee

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VICE-PRINCIPAL

Prof. M. Kumar

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Director of CELT	Dr. J. Savithri
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Teaching Staff Representative	Prof. A. Krishnaiah
Placement Officer	Mr. V. Uma Maheshwar
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Mechanical Engineering	Prof. A. Krishnaiah (ME)
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Chemistry	Prof. A. Panasa Reddy
English	Mr. C. Venkata Subba Rao



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 Mr. C. Venkata Subba Rao (English)

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 Prof. M.Kumar (Vice Principal)
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Secretary

Mr. K. Yadagiri (Asst. Registrar, Ex-Officio)

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 Prof. M. Kumar (Vice Principal)
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 Mr. V. Uma Maheshwar (ME)
 Prof. A. Panasa Reddy (Chem.)
 Prof. S. Narender Reddy (Phy.)
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 Mr. C.Venkata Subba Rao (Eng.)
 Dr. B. Sunil Kumar (Phy.Edu.)

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Convenor	Prof. P. Usha Sri (MED)
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Member	Dr. P. Satish Kumar Mrs. P. V.Sudha Dr. B. Rajendra Naik Mr. D. Suman Mr. E. Madhusudhan Raju

STUDENT ACTIVITIES BOARD

Student Advisor	Dr. Narsimhulu Sanke
------------------------	----------------------

a. Games and Sports

Chairperson	Prof. M.Kumar (Vice Principal)
Convener	Dr. B. Sunil Kumar
Members	All the Heads of Dept. & Leading Sportspersons of the College.



b. Cultural Activities

**Chairperson & Convener
Members**

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Dr. M.V.S. Sreedhar
Mrs. N. Srilatha
Mr. V. Uma Maheshwar
Mrs. P.V. Sudha
Dr. R. Hemalatha

DIAMOND JUBILEE LIBRARY

**Chairperson
Vice Chairperson
Members**

Prof. S. Sameen Fatima (Principal)
Prof. N. Suresh Kumar
Dr. M. Malini (BME)
Mrs. K.L. Radhika (CE)
Dr. P. Srinivas (EE)
Dr. P. Chandra Sekhar (ECE)
Mr. V. Nageswara Rao (ME)
Dr. P.Damodar (Librarian)

Convener

CANTEEN COMMITTEE

**Chairperson
Members**

Prof. Sriram Venkatesh
Prof. M. Gopal Naik
Dr. Rajendra Naik
Dr. K. Shyamal
Mr. K.Yadagiri (Asst. Registrar)

TEQIP-II

**Project Coordinator
Nodal Officer, M & E
Nodal Officer, Academic
Nodal Officer, Finance
Nodal Officer, Procurement**

Prof. Sriram Venkatesh
Prof. A. Krishnaiah
Prof. M. Gopal Naik
Dr. K. Shyamala
Dr. E. Vidyasagar

EXAMINATION CELL (UCE)

**Director of Evaluation
Joint Director of Evaluation (P.G)
Joint Director of Evaluation (UG)**

Prof. N. Suresh Kumar
Dr. P. Raja Sekhar
Dr. L. Siva Rama Krishna

HOSTEL COMMITTEE

**Chairperson
Vice Chairperson
Members**

Asst. Chief Warden
Addl. Chief Warden Girls Hostel & Mess
General Warden Girls Hostel

Prof. S. Sameen Fatima (Principal)
Prof. M. Kumar (Vice Principal)

Dr. B. Rajendra Naik
Dr. M. Manjula
Dr. L. Nirmala Devi



Mess Warden Girls Hostel	Smt. G.V. Nagalakshmi
Hostel Warden Kinnera Hostel	Mr. D. Rajashekar Reddy
Mess Warden Kinnera Hostel (ECH-I)	Dr. B. Hadya
Hostel Warden Ganga Hostel	Mr. Md. Misbahuddin
Mess Warden Ganga Hostel	Mr. M.Srinivas
Hostel Warden Swarnamukhi Hostel	Dr.V.B.Narasimaha

STUDENT'S GRIEVANCES REDRESSAL COMMITTEE (SGRC)

Vice – Principal, UCE (A), OU	Chairperson
Addl. Chief warden, (Boys)	Member
Addl. Chief warden, (Girls)	Member
HoD concerned	Coopted Member
Coordinator, 1 st year class room complex	Coopted Member

EMPLOYEES' GRIEVANCE COMMITTEE

Chairperson	Prof. M.Kumar (Vice Principal)
Senior Teacher Nominated	Prof. Premchand
Convener	Mr. K. Yadagiri (Asst. Registrar, Ex-Officio)
Representative of Employees of the College	Mr. C.Upender

TEACHER GRIEVANCES COMMITTEE

Chairperson	Prof. S. Sameen Fatima (Principal)
Convener	Prof. M.Kumar (Vice Principal)
Representatives of Teachers Association	Dr.P.Ramesh Babu, President, ECTA Dr. E.Vidya Sagar, Secretary, ECTA

OTHER ADMINISTRATIVE OFFICERS - UCE(A)

- Dr. S. Narendra Reddy
Coordinator,
Science & Humanities Class Room Complex.
- Dr. E. Vidyasagar
Co-ordinator TDC Building-UCE.
- Mrs. K. L. Radhika
Special Officer (IS) UCE
- Mrs. N. Srilatha
Lady Student Advisor
- Mr. M. A. Hameed
Mentor, Foreign Students &
Coordinator, Remedial Classes.
- Dr. L. Siva Rama Krishna
NSS Program officer-Unit-I
- Dr. E. Vidyasagar
NSS Program officer-Unit-II
- Mr. K. Yadagiri
Assistant Registrar, Ex-Officio

OTHER ADMINISTRATIVE OFFICERS - OU

- Prof. S. Sameen Fatima (Principal) Director, Center for women studies, OU
- Prof. P Laxminarayana Dean, Students Affairs, OU.
- Prof. Sriram Venkatesh Director, University Guest House, OU
- Prof.A.Krishnaiah Director, EDC, OU
- Prof. P. Usha Sri Spl. Officer, Foreign Students Counselling
- Prof. M. Gopal Naik Director, Infrastructure, OU



7. Dr. P. Ramesh Babu Special Officer, Automation, OU
 8. Dr. P. Raja Sekhar Joint Director,
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 9. Dr. Narsimhulu Sanke Asst. Controller of Examinations, EDP, OU
 10. Dr. P. Sateesh Kumar Asst. Controller of Examinations, OU
 11. Dr. P. Naveen Kumar Asst. Controller of Examinations, OU

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4	Prof. V. Bhikshma	Member	Head, Dept. of Civil	9949638885
5	Mr. S. Ram Babu	Member	Head, Dept. of CSE	9908573867
6	Dr. B. Mangu (EE)	Member	Head, Dept. of EE	9849794210
7	Dr. B. Rajendra Naik	Member	Head, Dept. of ECE, Addl. Chief Warden	9441222226
8	Prof. A. Krishnaiah	Member	Head, Dept. of ME	9440834065
9	Dr. S. Narender Reddy	Member	Co-ordinator H & S Block	9949055469
10	Mr.V. Uma Maheswar	Member	Placement Officer	9885085670
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12	Dr. B. Sunil Kumar	Member	Physical Director	9391608054
13	Dr. Narsimhulu Sanke	Coordinator	Student Advisor	9885415325
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15	Dr. B. Hadya	Member	Kinnera Hostel Mess Warden	9440349195
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17	Dr.E. Vidya Sagar	Member	NSS PO Unit-II	9985256268
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20	Dr. L. Nirmala Devi	Member	General warden, Girls Hostel, UCE	9949513490
21	Mr. Md. Misbahuddin	Member	Ganga Hostel Warden	9247184538
22	Mr. M. Srinivas	Member	Ganga Hostel Mess Warden	9703063245



23	Mr. K.Yadagiri	Member	Asst.Registrar	9866769884
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118.	Dr. K. Buchaiah	Scientist	9440873690	bkarolla@gmail.com
119.	Mr. G. Venkateshwarulu	Asst.Prof(C)	9440154984	gadadasu_venkat@yahoo.co.in
120.	Mr. K.L. Uday Kiran	Asst.Prof(C)	9959738537	ukiran-7@yahoo.co.in
121.	Mr. K. Venkateshwarulu	Asst.Prof(C)	9490219028	katarapu_v@yahoo.com
122.	Mr. U. Ashok Kumar	Asst.Prof(C)	9966036324	uak.mech.osmania@gmail.com
123.	Mr. M.Prakash	Asst.Prof(C)	7799999595	
Physics				
124.	Dr. S. Narender Reddy (Head)	Assoc. Prof.	9949055469	snreddy_sattineni2000@yahoo.com
125.	Dr.N.Narasimlu	Asst. Prof	9949617555	narsimluou@gmail.com nnluou@gmail.com
126.	Ms. R. Swarna Latha	Asst.Prof(C)	9949744133	swarnalatha424@gmail.com



S.No	Name	Designation	Mobile No.	E-mail ID
127.	Mr. K. Krishna Murthy Goud	Asst.Prof(C)	9494227476	ou.kkphysics@gmail.com
128.	Dr. B.Ashok	Asst.Prof.(C)	8520051056	Log4ashok@gmail.com
Chemistry				
129.	Prof. A. Panasa Reddy (Head)	Professor	9849957268	reddypanasa@gmail.com
130.	Mrs. V. Vani	Asst. Prof(C)	7893855746	vani.lns@gmail.com
131.	Mrs. G. Sujatha	Asst. Prof(C)	9490255819	g Sujatha@gmail.com
132.	Mrs. V.Sreedevi	Asst. Prof(C)	9885292810	vsdevi15@gmail.com
133.	Mrs. P. Reshma	Asst. Prof(C)	9052499330	reshma.reddy860@gmail.com
English				
134.	Mr. C. Venkata Subba Rao (Head)	Asst. Prof.	9440474457	cvenkatasubbarao@gmail.com
135.	Dr.J.Savithri	Asst. Prof.	8500349999	savijandh@yahoo.com
136.	Dr. Lakshmi Mantha	Asst. Prof(C)	9849752655	laksrimantha@yahoo.co.in
137.	Mrs. Suma Bindu Pothuri	Asst. Prof(C)	9985856507	sumabindutrainee@gmail.com
Mathematics				
138.	Dr. V. Naga Raju (Head)	Asst. Prof.	9440496134	viswanag2007@gmail.com
139.	Mr. V.Kiran	Asst. Prof.	9912959615	kiranmathsOU@gmail.com
140.	Dr. Y.Rameshwar	Asst. Prof.	8332969458	rameshwar@osmania.ac.in
141.	Mr. B. Balaswamy	Asst. Prof.	9948604358	Balu_19812002@yahoo.co.in
142.	Dr. Pothu Thirupathi	Asst. Prof(C)	9949325015	thrupathi@gmail.com
143.	Mr. K. Ramalingaiah	Asst. Prof(C)	9010015790	Kadarirama2@gmail.com
Dept. of Physical Education				
144.	Dr. B. Sunil Kumar (Head)	Assoc. Prof.	9391608054	drbsk.sport@gmail.com
Library				
145.	Dr. P. Damodhar	Library Asst.	9059405311	pdamodhar@yahoo.com
146.	Mr. B. Kumar	Library Asst.	9391130091	boyakumar123@yahoo.com

Awards received by the College/Faculty

S.No.	Nature of Award	Person/Institute Received	Year of Award
1.	IETE-IRSI Award	Mr. N. Diwakar, Chairperson, BoG	1999
2.	Scientist of the Year award of DRDO	Mr. N. Diwakar, Chairperson, BoG	2000
3.	Best Teacher Award by Government	Prof. Shanta Ram, Dept. of Civil Engg.	2000
4.	Best Teacher Award by Government	Prof. D. C. Reddy, Dept. of ECE	2000
5.	Best Teacher Award by Government	Prof. D. Babu Rao, Dept. of Civil Engg.	2001
6.	Performance Excellence award	Mr. N. Diwakar, Chairperson, BoG	2002
7.	Best Teacher Award by Government of AP	Prof. Pandari Pande, Dept. of ECE	2002



S.No.	Nature of Award	Person/Institute Received	Year of Award
8.	Best Engg. College Award in the Country by the ISTE	UCE, OU	2003
9.	Sir M.Vishweshvaraiiah Award for outstanding Engineer	Prof. Pandari Pande, Dept. of ECE	2003
10.	Prof. K. Sreenivasan Memorial IETE award	Prof. Pandari Pande, Dept. of ECE	2003
11.	Padmasri	Mr. N. Diwakar, Chairperson, BoG	2004
12.	Best Teacher Award by Government	Prof. K. V. Chalapati Rao, Dept. of CSE	2005
13.	Best Teacher Award by Government	Prof. A. D. Rajkumar, EED	2007
14.	Prof.S.C.Aiya Memorial IETE Award	Prof. Pandari Pande, Dept. of ECE	2007
15.	ICI: Altra-tech endowment award for outstanding concrete Technologist	Prof. P. Rao, Civil Engineering Dept.	2007
16.	ISTE Anna university National Award	Prof. Pandari Pande, Dept. of ECE	2009
17.	Vishwakarma Award by CIDC, Planning Commission, Govt. of India	Prof VSS Kumar	2011
18.	M.S.Jain memorial National Award(Best paper) by IGC, India	Prof.M.Kumar	2012
19.	Best Teacher Award by Government of AP	Prof.E. Suresh Kumar	2012
20.	Best Teacher Award by Government of AP	Prof. S. Ramachandram	2013
21.	Indian Concrete Institute(APHC)- Ultratech Endowment Award for Outstanding Concrete Engineer of A. P.	Prof. Ravande Kishore	2013
22.	POSO Power System Award	Dr. G. Mallesham	2013
23.	ISCA Young Engineer Award	Dr. G. Mallesham	2013
24.	Academic Research Award of excellence by AMSI	CPTIP, MED, UCE, OU	2014
25.	Best Teacher Award- 2014 by Government of Telangana	Dr. P. Satish Kumar	2014
26.	Award for Research Excellence, From Indo-Global Education Expo & Summit 2014	Dr. P. Satish Kumar	2014



S.No.	Nature of Award	Person/Institute Received	Year of Award
27.	Best research paper award in Internation conference ACSME-2014, Bangkok	Prof. M. Kumar	2014
28.	Global Teacher Role Model Award-2015	Dr. P. Satish Kumar	2015

List of Ph.Ds Awarded by UCE, OU for the year 2015-2016

STUDENT NAME/ GUIDE	TITLE
ECE	
Mr. Mustafa Osman Ali Osman GUIDE : Prof. Rameshwar Rao	Invisible Watermarking Algorithm Embedded in VLSI Chip for Authenticating Digital Image
EEE	
One research scholar was awarded PhD	
MED	
Mr. Satyanarayana Reddy GUIDE : Prof. A M K Prasad	Design optimization, analysis and experimental validation of Electric transformer cooling system.
Mr. B.Hadya GUIDE : Prof. A M K Prasad	Experimental Investigations and performance comparison of Zero ODP HFC group refrigerants in an air condition system.
Mr Rajkumar Patil GUIDE1 : Prof . P. Ravinder Reddy GUIDE 2 : Prof. P. Laxminarayana	Analysis of buckling of helical compression springs over the different range of parameters.
Physics	
Mr.T.Vijay Kumar GUIDE : Dr.S.NarenderReddy	Studies on enhanced ionic transportin $\text{NaNO}_3 - \text{Sr}(\text{NO}_3)_2$ mixed and nano dispersed multiphase solid electrolyte systems

Ph.Ds Awarded to the Faculty of UCE in the year 2015-2016

STUDENT NAME /GUIDE	TITLE
MED	
Mr. M Chandrasekhar Reddy, IIT Madras GUIDE : Prof. Sheshadri Sekhar	Detection of misalignment and crack in rotor systems using torque and strain measurements.
Mrs. K Saraswathamma IIT Delhi GUIDE 1 : Prof. P.V.Rao and GUIDE 2 : Dr. Sunil Jha	Synthesis and Characterisation of MR polishing fluid and MR finishing of Silicon
Mr. B.Hadya, UCE, OU GUIDE : Prof. A M K Prasad	Experimental Investigations and performance comparison of Zero ODP HFC group refrigerants in an air condition system.



DEPARTMENT OF BIOMEDICAL ENGINEERING





TEACHING FACULTY

Associate Professors



Mr.M.Venkateswara Rao



Dr.M.Malini

Assistant Professors



Mr. D. Suman



Mr.M.Srinivas



Ms G.Shravanya



Mr.K.E.Ch.Vidyasagar

Assistant Professors (Contract)



Kiran Kore



K Harish



B. Gayatri



DEPARTMENT OF BIOMEDICAL ENGINEERING

Fax & Phone No: 040-27090083, 27682233

<http://www.uceou.edu/bme/bme.html>

1. Profile

Biomedical Engineering (BME) constitutes human beings earliest efforts to understand the living world in terms of the basic sciences and to comprehend the body mechanism in terms of their technological creations. Biomedical Engineering involves the study and application of engineering processes for diagnosis and therapy. It is a rapidly changing interdisciplinary domain, in which each branch of engineering interacts with a number of other disciplines to yield a fundamental understanding of health maintenance processes for improved diagnosis and optimal interventional (surgical, therapeutic & rehabilitative) procedures.

Osmania University is the first University to start Biomedical Engineering at undergraduate level in the country. The course was started in the year 1982 with an intake of 10 students in the Department of Electronics and Communications Engineering. An exclusive Biomedical Engineering Department was formed in the year 1993 to give the much needed thrust to Programme. The student intake was enhanced to 30 in the year 1996. The Department moved to its present premises in the year 1997. The Department has also started Post Graduate program in Biomedical Electronics in the academic year 2006-2007. The total floor space of 10800 sft. houses class rooms, laboratories and other amenities. The B.E (BME) programme of the department has been accredited by the NBA for five years with effect from August 2013. A special appreciation was given by the visiting expert team

Academic Programs:

Undergraduate	B.E (Biomedical Engineering)
Post Graduate	M.E (Biomedical Electronics)
Doctoral Programs	Ph.D. (Biomedical Engineering)

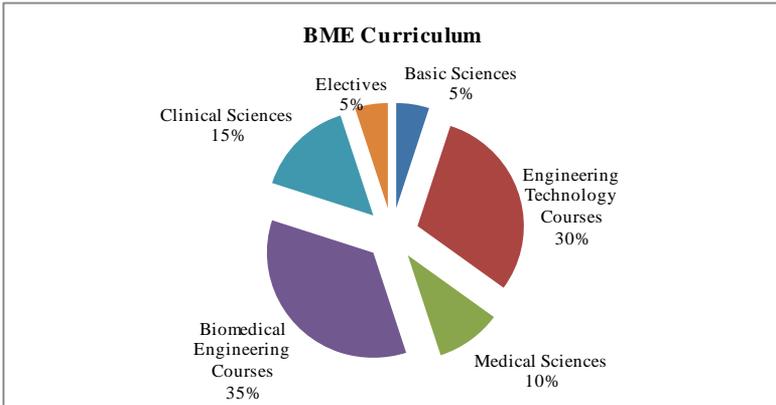
Our Mission

- To produce Biomedical Engineering graduates who can understand and apply the basic engineering principles in the medical field.
- To produce the Biomedical Engineers who can serve the medical fraternity in design and development of Medical Equipments, implants, and other devices this is in immense use by the society.



Curriculum:

The BME curriculum is a perfect blend of basic sciences, Engineering and medical courses.



Pie Chart of the B.E (BME) Curriculum

2. Faculty details :

Name and Designation	Areas of Specialization
Prof. T.Anjaneyelu, Visiting professor Retd Prof. IIT, Bombay	Hyperthermia, Control systems, Medical Sensors
Prof.A.K.Tiwari Adjunct Professor Director, CARE Foundation	Bio Nano technology Nano Materials for Medical Applications
Mr.M.Venkateswara Rao, (Ph.D),MBMESI, MISOI Associate Professor & Chairperson BOS.	Medical Embedded Systems, Deep Brain Stimulation, Biomedical Instrumentation, Bio Nano technology
Dr.M.Malini, Ph.D., MIE., MISTE, LMISOI, MBMESI Associate Professor & Head	Biomedical Signal Processing, Embedded Medical Instrumentation, Biomechanics.
Mr.D.Suman, (Ph.D) MIACSIT, MBMESI Assistant Professor	Biomedical Instrumentation, Biomedical Signal Processing, Telemedicine
Mr.M.Srinivas M.E Assistant Professor	BioMedical Equipment, Instrumentation, Hospital Administration & Management
Ms G.Shravanya M.S,(Ph.D) Assistant Professor	Medical Sensors, Biomaterials
Mr.K.E.Ch.Vidyasagar M.Tech, (Ph.D) Assistant Professor	Brain Signal Processing, Brain machine Interfacing, Rehabilitation Engineering

Apart from these permanent faculty members, class work is also handled by Assistant Professors (C) and faculty from Osmania Medical College and Durgabai Deshmukh Hospital & Research Center.



Career Options: After completion of the course, the students may find place in

Field	Organizations
Higher Education	India(IITs', IISc, NIT's, Central Universities, State Universities, Deemed Universities like MIT, SRM, VIT, etc.,) & Abroad (Most of the universities in USA, Germany, Sweden, Netherlands, UK, Switzerland offers MS in Biomedical Engineering.)
Research Opportunities	IISC, IIT's, CSIR institutes, CCMB, IICT, NIMHANS DRDO, Universities, DEBEL, Many of the universities in abroad are offering research positions in Biomedical Engineering.
Medical Device companies	Siemens Medical Ltd., GE healthcare, L & T medical, Philips medical, BPL medical, Novartis healthcare, Medisun, Pricol medical systems, Covedien - Delhi, Medtronic, Baxter, Boston scientific, Veol Medical Technologies, vTitan Corporation Pvt. Ltd, Relisys Medical Devices Limited , MediVed Innovations Etc.
Hospitals	Gandhi hospital, Kamineni hospital, Global hospital Apollo, CARE hospital, Medicit, , NIMS, Yashoda hospital, Vasana Eye care, Oxygen hospital, rainbow children's hospital, innova hospitals, Galaxy hospital etc.
Public Sector in India	HSCC, NIMHANS, HILL, DEBEL, ESI Govt. Hospitals, etc
Knowledge Process Outsourcing based companies & IPR related field	Evaluate Serve-Delhi, CPA Global- Delhi, Scitech - Hyderabad, Pangea3 - Mumbai, Dolcera - Hyderabad, Deloitte healthcare consultancy
Software	Infosys, CTS, Wipro, Deloitte, Intergraph, TCS, Etc.

3. Research Activities:

The faculty of the department is actively involving in research activities in collaboration with various organizations such as EMRI, and hospitals like DDH & RC, NIMS, CARE, Apollo etc. for the development of a number of medical instruments for immediate use of doctors such as bedside monitors, blood-gas analyzers and auto analyzers. The staff has designed and developed computer-assisted prescription system (CAPS) that caters to the needs of doctors at primary health centers and district hospitals, helping them in the diagnosis and treatment of about 100 common diseases that afflict the national populace. The faculty applied for patents on cryoshoe syncope detection.

The Department has been engaged in research and consultancy projects. It received research grants from various government agencies such as AICTE; UGC, DST, TEQIP (Phase I & II) etc., The Department established a Biomedical Instrumentation centre (BMIC) to cater to the needs of medical profession. The faculty members of the department are also active, effective and acknowledged contributors to UPE project of the UGC.



The faculty members of the department are working in the following areas of research.

1. GPS-GPRS based emergency patient transportation system and evaluation of physiological parameters.
2. Deep Brain Stimulation as a therapy of Parkinson's disease.
3. EOG signal analysis for the diagnosis of neurological disorders.
4. Analysis of Sleep EEG, ECG analysis.
5. FDTD analysis of Medical Images.
6. Hyperthermia application of Nano materials for cancer therapy.
7. Non invasive beat to beat BP monitoring system by using PWTT.
8. Wireless Sensor Network.
9. Brain Computer Interfacing.
10. Gait Analysis of Parkinson's patients.

The research contribution made by the faculty has been commendable in terms of the publications and patents applied.

4. Research/Consultancy Projects:

S.No	Title of the Project	From	To	Funding Agency	Quantum of Funds
1	Hyperthermia application of Nano materials for cancer Therapy	2013	2018	(UPE status) UGC	70(Lakhs)

5. Laboratories of the department:

The department has well equipped Laboratories

1. Biomedical Equipment Lab/Medical Instrumentation Lab
2. Medical Sensors Lab
3. Biomedical Signal Processing Lab
4. Electronics Lab
5. Medical Embedded systems Lab
6. Computer Programming Lab
7. Microprocessors and Microcontrollers Lab
8. Virtual Instrumentation Lab

6. Infrastructure:

Software: Turbo C, MATLAB 7.0, NI Lab view, Auto CAD, ORCAD, PCB Prototype software, Proteas.

Hard ware: Major Equipment in the Laboratories

S.No	Equipment
1.	EEG 10-20 Electrode cap
2.	Calibration Equipment



S.No	Equipment
3.	Driving simulator
4.	Motorized Wheel Chair
5.	1 GHz Spectrum Analyzer & Fourier Synthesis Trainer
6.	Clinical Analyzer
7.	Driving simulator
8.	Motorized Wheel Chair
9.	Sensor Development Boards
10.	Calibration Equipment
11.	100MHz Digital Storage Oscilloscope
12.	Medi Embedded Systems with 37 Sensors
13.	DSP 2X, 6X processors
14.	Microprocessors (8085,8086) and Microcontrollers Boards (PIC,8051) and their interfacing kits.
15.	PCB prototype machine
16.	Instrumentation Design Boards
17.	National Instruments ELVIS II+ Development board
18.	TMT Machine
19.	AD Instruments Computerized Data Acquisition System
20.	Ultra sound Color Doppler

Library facility:

1. Well established Seminar Library with around 2000 books.
2. ISOI Journal.
3. PCs with internet connectivity having UPS facility.

7. Achievements:

The department of BME in collaboration with Care hospitals has started an “Advanced PG fellowship in cardiac electrophysiology” on 30th July, 2013 at Rajbhavan. It was launched by Honorable former president of India Bharat Ratna Dr. A.P.J.Abdul Kalam in the presence of vice chancellor, Osmania University. As part of this, 5 M.E. students were selected for the project internship at Care hospitals under well-known cardiologist Dr.Narshiman and Prof. A.K.Tiwari which resulted with one patent filing.

The B.E (BME) programme of the department has been accredited by the NBA for the five years with effect from August 2013. A special appreciation was given by the visiting expert team. The faculty members of the department are also active, effective and acknowledged contributors to UPE project of the UGC.

Honorable former president of India, Bharat Ratna Dr. APJ Abdul Kalam visited the department on 1st August 2014 and gave an inspirational speech on Biomedical Innovations and the role of Biomedical Engineers and their impact on the society.

Dr. M. Malini has been recognized as a Doctoral Committee member for Dr.Rammohan a Ph.D. Candidate in KIMS Foundation & Research Centre under NTR University of Health Sciences



Distinguished Alumni:

1	Ravi Bellamkonda	Professor at Georgia Institute of Technology, Associate Vice President for Research at Georgia Institute of Technology, Carol Ann and David D. Flanagan Chair in Biomedical Engineering.
2	Surekha Palreddy	President at Bio Algorithms, Inc., St. Paul, MN
3	Shailendra M	Sr.DGM at Larsen & Toubro Limited
4	Rajesh K Rapolu	MRI/CT Field Engineer at Radiographic Equipment Services
5	Raghuvender	IP Division , Phillips, Ltd.
6	Sridhar Narayan Porindla	Consultant at SNC, Hyderabad
7	Pramod Reddy By reka	Founder & CEO, Allatus Techno-Legal Solutions Pvt. Ltd
8	Vasanth Kumar	Service Specialist at GE Healthcare Pvt. Ltd
9	Chaithanya Krishna Mummidisetty	Quality Engineer Internship Boston Scientific Corporation Miami, Fl.
10	Mallikarjun	Head, Biomedical Engineering division, NIMS, Hyderabad.

8. Publications:

1. M. Venkateshwara Rao, Dr. M. Malini, Armava Munazza, B. Sailalitha “ Design of Multipoint Ablation switch for Renal Artery Denervation” International Journal of Engineering Research and Technology, Organized by MIT, Anna University, Chennai, NCAMS-2016.
2. Dr. M. Malini, K.E.Ch. Vidyasagar, D. Savita, B. Sailalitha “Offline Analysis of Motor Imagery EEG signals for brain computer interface” ” International Journal of Engineering Research and Technology, Organized by MIT, Anna University, Chennai, NCAMS-2016.
3. V. Y. S. Reddy, P. S. Akanksha, D. Suman and M. Mudigonda, "Discrete Wavelet Transform based statistical features for the diagnosis of epilepsy," *2015 Annual IEEE India Conference (INDICON)*, New Delhi, 2015, pp. 1-6.doi:10.1109/INDICON.2015.7443494.
4. O.M. Sumathi and Malini Mudigonda “A Research Review on Multisensor Data Techniques in Intelligent Health Care Monitoring.” International Journal of advanced Engineering research and Applications (IJAERA) Vol-1 Issue-4, August-2015.
5. D. Suman, M. Malini and S. Anchuri, "EOG based vigilance monitoring system," *2015 Annual IEEE India Conference (INDICON)*, New Delhi, 2015, pp. 1-6.doi: 10.1109/INDICON.2015.7443210.
6. O. M. Sumathi and Malini Mudigonda “Wireless Non-invasive Vital Sign Sensors and Multisensory Data Fusion Techniques” Journal of Instrumentation Technology & Innovation, ISSN: 2249-4731 (online), ISSN: 2347-7261 (print) Volume 4, Issue- 2, www.stmjournals.com.



9. Conferences/Workshops/Seminars/Guest Lecturers Organized:

Events Organized:

Event name	Topic
Workshop on Convergence of NBIC for Medical Innovations	Chief Guest Honorable Former President of India Dr.APJ Abdul Kalam speech on Biomedical Field
Faculty Development Program	5-day program on Microcontrollers and their applications with hands on training.
Workshop on Cognitive Sciences & Neuro Signal Processing	2-Day workshop on Cognitive science and signal processing by eminent speakers.
Workshop on NI Lab View for Instrumentation	Demonstration of Lab view applications by Trident Tech Labs and eminent speakers.
Medical Expo	Exhibition of the Medical Equipment by various medical Industries
Health Camp	Camp of Cardiac checkup, Dental checkup, Eye checkup and Fat checkup.
Hands on Training program on MATLAB for Engineers	Exposure to MATLAB software

Guest Lectures:

Guest Speaker	Topic
Dr. Pari Plavi Professor & HOD of Anatomy(Retd.), Osmania Medical College	Harnessing the Heart for Excellence
Dr. N. Venkateshwar Rao Associate Professor in Nano Technology, JNTUH, Hyderabad.	Nano Structured Materials for Energy and Sensor applications
Mr. Tejas Bengali Technology Innovation Programmer, Skanray Technologies.	Technology Innovation Programs in the critical care segment
Mr. P. Srinivas Reddy HOD- Biomedical Department, Continental Hospitals, Hyderabad.	Laposcopic vessel Sealing Devices

Technical Symposia-Meditech-2016:

The students of the Department have organized the National Level Technical Symposium **MEDITECH 2016** during -04th & 5th March, 2016. The Chief guest was **Dr. Boora Narsaiah Goud**, Honorable Member of Parliament, Telangana. The chief Sponsors were Alliance Medical Systems, Continental Hospitals and Scientech Technologies.

10. Workshops attended by the Faculty:

1. Mr. K. Harish has attended Five day workshop on “Machine Learning for Medical Image Analysis” at IIT Mandi during June 18-22, 2016.



2. Mrs. G. Shravanya has attended one day workshop on “How to Write Research Proposal” held on September 18th, 2015.
3. Ms. G. Shravanya has participated in the Five Day Short Term Training Program (STTP) on 3D Printing Experience Conducted by NIT, Warangal during May 05-09 2015.
4. MS. G. Shravanya has attended one month Orientation Program Organized by UGC, Academic Staff College, O.U. Hyderabad during Dec 12th 2015- Jan 07th 2016.
5. Mr. M. Srinivas has attended one month Orientation Program Organized by UGC, Academic Staff College, O.U. Hyderabad during Dec 12th 2015- Jan 07th 2016.
6. Mr. K. Harish has attended Two weeks workshop winter school on “Soft Computing approaches in pattern recognition, Image processing & Matlab” sponsored by AICTE during 8th Jan -20th Jan 2015.

11. Guest Lecturers delivered by our faculty:

1. Mr.M.Venkateswara Rao delivered a guest lecture on “**MEMS-Biomedical Applications**”. at D. Y. Patil Institute of Engineering & Technology, 2016.
2. Mr.M.Venkateswara Rao, M. Malini, B. saillitha, Akitha has participated in “ Indian Medical Device Empo-2016”, 4th Innovative Medical Dvices were exhibited in the expo and won third prize for “cryoshoe” organized by IIT Bombay , VNIT Nagpur, Engineering College of Pune.
3. Mr.M.Venkateswara Rao delivered a guest lecture on “**Industrial Instrumentation**” at GITAM University, Hyderabad Campus. 19th February -2015.
4. M.Venkateswara Rao, “Nanoparticles for Cancer Treatment” at NCCFM Organized by Department of Physics, Osmania University-2015.

12. Any future plans:

The department has identified several research areas such as biomedical signal & image processing, Nano technology, and Medical Instrumentation to achieve affordable and effective health care delivery. The department is about to establish a centre for calibration to facilitate hospitals to calibrate their medical equipment for the effective operation



Electronics Engineering Lab



Computer Programming Lab



Electronics Engineering Lab



Audiometer



Operational Microscope



X-Ray unit for Demonstration



Electroporesis unit





A motivational Speech by Honorable APJ Abdul Kalam on 1st Aug 2014



Dr. Boora Narsaiah Goud, Honorable Member of Parliament, Telangana on MEDITECH 2016





DEPARTMENT OF CIVIL ENGINEERING





TEACHING FACULTY

Professors



Prof. V. Bhikshma



Prof. Ravande Kishore



Prof. V. S. S. Kumar



Prof. M. Kumar



Prof. N. Suresh Kumar



Prof. M. Gopal Naik



Prof. M. A. Prasad

Associate Professors



Dr. T. Sambaiah



Dr. P. Raja Sekhar

Assistant Professors



Mrs. K. L. Radhika



Dr. M. V. S. Sreedhar

Assistant Professors



Dr. R. Srinivasa Kumar



Mr. D. Rajashekar Reddy



Mr. K. Shashikanth



Mrs. D. Annapurna



Mrs. S. V. S. N. D. L. Prasanna



Dr. D. Rupesh Kumar



Mrs. P. Anuradha



Mr. R. Rajender

Assistant Professors (Contract)



Mrs. A. Usha Sri



Mr. L. Ajay Kumar



GROUND WATER MODEL



BASIC HYDROLOGY SYSTEM



Department of Civil Engineering

Tel: 040-27097125

Email-id: headcivil29@gmail.com

1. Profile

Department of Civil Engineering was established in the year 1929 with an intake of 15 students. It was the first Department to commence the undergraduate programme at University college of Engineering, Osmania University. Initially, the Department and the College started functioning from a building as make shift arrangement and later in the year 1947, they moved into the present majestic building. Over the years, the Department grew from strength to strength in terms of its academic achievements and infrastructure development.

Currently, the Department admits 60 students for the Under-Graduate programme and 90 for the Post-Graduate Courses each year. It also offers part time Post-Graduate courses for the benefit of working Engineers of the twin cities, admitting 45 candidates annually. The Post-Graduate programmes are offered in the field of Structural Engineering, Geotechnical Engineering, Water Resources Engineering, Infrastructure Engineering, Transportation Engineering, and Construction Engineering & Management. The Department has doctoral programmes as well, and has over 25 candidates enrolled for their PhD programme. The Department also has the distinction of enrolling large number of foreign students both at UG and PG level.

The Department provides research and consultancy services to various public and private sector organizations, and thus earns substantial amount of revenue for developmental activities. Further, the Department receives research and modernization grants from UGC, DST, MHRD, and AICTE for carrying out research and developing the laboratories. The Department has celebrated its Golden Jubilee in 1979 and Diamond Jubilee in 1989. The key milestone in the history of the Department is the Platinum Jubilee celebrations held in the year 2004.

The Department has developed expertise over the years in the fields of Concrete technology, Recycled aggregate concrete, Civil engineering materials for sustainable development, Finite element analysis, Bridge engineering, Earthquake resistance structures including tall structures, Foundation engineering, Environmental engineering, Integrated expert systems, GIS and GPS , Water resources engineering, Transportation Systems Engineering and Fuzzy logic applications. The Department has received research funding for carrying out research projects in the field of Recycled aggregate concrete, Temperature distribution in concrete railway bridges, Water and air quality studies, Water management, Wind tunnel



studies, Construction engineering and management, Geo-textiles, Seismic resistant structures, Bridges, and Computer applications.

Several faculty members have received prestigious awards including the Best Teacher awards of the State Government and the Best Publication awards reflecting their teaching abilities and the research contribution. Many of the faculty members are listed in several national and international biographical directories. The faculty has published over 1500 papers in various international and national journals and conferences besides text books and professional books.

2. Faculty Details

Faculty member	Areas of Teaching and Research
PROFESSOR AND HEAD	
Dr. V. Bhikshma B.E.(OU), M.Tech (JNTU), Ph. D(O.U)	Structural analysis and design, Concrete composites, Bridge engineering, Reinforced cement concrete, Prestressed concrete, Concrete technology, Earth quake engineering. Repair and Rehabilitation of structures
PROFESSORS	
Dr. Ravande Kishore B.E (OU), M. E.(OU), Ph. D. (IIT B) MIE (India), MICI, MMICACI, MISTE, FIIBE	Structural analysis and design, , Shells and folded plates, Concrete technology, Recycled aggregate concrete, Construction material for sustainable development, Low cost housing, Repairs, and rehabilitation and retrofitting of structures, Non-destructive testing.
Dr. V. S. S. Kumar B.E(OU), M.Tech.(IIT D) Ph. D (IIT D) Post-Doc (USA), FIE, MASCE, MISTE, FIV	Fuzzy logic, Neuro - Fuzzy systems, Construction Engineering & Management, and safety management, Sustainability, Project management, Operations research, Fuzzy Linear programming, Value Engineering, Project Scheduling.
Dr. Kumar Molugaram B. E. (OU), M. Tech(JNTU), Ph.D(IITB) FIE, MISTE, MIRC, MIIBE, MIUT, MISR, MWCTR, MASCE, MTRB	Land-use transportation integration, Urban transportation planning, Behavioral modeling. Micro-simulation, Optimization techniques, Traffic Engineering, Rural roads planning and development, Highway material testing, Pavement systems design and Evaluation
Dr. N. Suresh Kumar B. Tech. (KU) M.E. (Anna U), Ph. D. (IIT B) MISTE, MISH	Free surface flows, Water management, Rural and urban water supply systems and Environmental hydraulics
Dr. M. Gopal Naik, B.E. (OU), M.E. (OU), Ph.D. (IIT-B), FIE, MASCE, IWRS, ISRS, ISH, ISG	Watershed Modeling, Integrated Watershed Management Systems, Hydrology and Water Resources Engg., FEM application to Water Resources Engineering, Remote Sensing and Geographical Information Systems & Global Positioning System, Applications of Geospatial Technologies and Soft computing Techniques to Construction Engg. and Project Management
Dr. M. Anjaneya Prasad B. E. (OU),M. Tech (REC-S), PhD(IITM)	Hydraulics, Water Management Systems, Fuzzy logic applications to water resources, Optimization application in water resources



ASSOCIATE PROFESSORS	
Dr. T. Sambaiah B.E.(OU), M.E.(OU), PhD(OU)	Geotechnical engineering and Geo-textiles
Dr. P. Raja Sekhar B.E.(OU), M.E.(OU), Ph.D (IITB)	Water resources engineering, Hydrology and water management, Ground water hydrology, Ground water pollution studies at normal gravities (1g) and enhanced gravities (Ng-centrifuge modeling studies)
ASSISTANT PROFESSORS	
Mrs. K. L. Radhika B. Tech (JNTU),M. E. (OU)	Structural analysis and design, and Concrete Technology
Dr. M. V. S. Sreedhar B.Tech (JNTU),M. Tech (IITB),Ph.D(OU)	Geotechnical engineering, Ground improvement techniques, Geo-Synthetics, Soil dynamics and machine foundations, Geotechnical investigations.
Dr. R. Srinivasa Kumar BE(OU), ME(MSU), Ph.D(IITKGP)	Transportation engineering, Highway planning, Pavement design, Evaluation and maintenance, Pavement material characterization and Statistical analysis of data.
Mr. D. Rajashekar Reddy BE (OU), M.Tech (JNTU)	Transportation Engineering, Traffic Engineering, Pavement analysis, Pavement Construction
Mr. K. Shashikanth B. Tech (SVU) ME-CE (UVCE-B), M.Tech- CS (JNTU)	Surface water hydrology, Mathematical modeling to water resources, ANN and GIS applications.
Mrs. D. Annapurna B. Tech (SKU), ME(OU)	Structural analysis and design. Computer aided analysis & design of structures.
Mrs. S. V. S. N. D. L. Prasanna BE(OU), ME(OU)	Water Resources Engineering, Ground water hydrology and Environmental Engineering.
Dr. D. Rupesh Kumar B. Tech (NU), M.Tech (JNTU), Ph.D (JNTU).	Design of RCC & steel structures, Finite element analysis, Earthquake resistant design of structures, Design of bridges, Structural shape optimization
Mrs. P. Anuradha B. Tech (JNTU),M. Tech (JNTU)	Structural analysis and Earthquake analysis
Mr. R. Rajender B.E (OU), M.E (IISc)	Design of Machine Foundations, Structural Dynamics, Finite Element Methods, Structural Analysis and Design, Earthquake Resistant Design
ASSISTANT PROFESSORS (CONTRACT)	
Mrs. A. Usha Sri B.E (OU), M.E (IITD)	Structural analysis and Structural Dynamics
Mr. L. Ajay Kumar B.E (OU), M.E (OU)	Structural analysis, Design of RCC & Concrete Technology

3. Laboratories of the Department

1. Materials Testing Lab.
2. Concrete and Structures Lab.
3. Transportation Engineering Lab.
4. Geo-Technical Engineering Lab.



5. Fluid Mechanics Lab.
6. Environmental Engineering Lab.
7. Surveying Lab.
8. Computer Lab.
9. Geology Lab.

The laboratories are upgraded periodically with the state of the art equipment with the help of research and development grants received from the University Grants Commission (UGC), Ministry for Human Resource Development (MHRD), All India Council for Technical Education (AICTE) and other agencies.

4. Major Equipment available in the Department

1. Universal Testing Machines of 1000 kN and 2000 kN capacity
2. Torsion, Shear, Tension, Compression and Flexural Testing Equipments
3. 1000 kN & 150 kN loading frames.
4. Impact Testing Machine
5. Vibration monitoring systems
6. Large Scale Direct Shear Box Testing Unit
7. Triaxial Testing Machine with pore pressure measurement facility
8. Low-Speed short Wind Tunnel (0. 61m X 0. 61 m) with two component strain gauge balance.
9. Tilting frame (12.0 m length)
10. Dual frequency Doppler Flow Meter
11. Nephelometer
12. Portable Spectrophotometer
13. Total station
14. Automatic Level
15. Latest Software Packages like ANSYS, NISA, NASTRAN, AutoCAD, STAAD.PRO, SAP, ETABS, ArcGIS, InfoSWMM, Symantic Antivirus Endpoint Protection, etc.
16. NDT Equipments like Corrosion analyzer, Profometer, Schimdt Rebound hammer and Ultrasonic test apparatus.
17. Infrared camera
18. Ground Penetrating Radar (GPR)
19. Asphalt Testing System
20. BOD equipment with dissolved oxygen probe
21. Fluoride Electrode

TEQIP Phase-II Impact: Procurements

The following equipments were procured, installed and being used

1. Relative density apparatus
2. Automatic compactor



3. Block resonance test facility
4. Electrodes for ions
5. Discharge measuring system
6. Total station
7. Longitudinal Compressometer
8. Humidity Chamber
9. Fatigue Testing Machine 200kg
10. Drying Shrinkage and Moisture movement
11. Groundwater model
12. Basic hydrology system
13. Accelerated polishing machine

The following software were procured, installed and being used

1. MATLAB
2. STAAD
3. B_est
4. MD FEA
5. CARD / 1 (Transportation Engineering Software)
6. CUBE 6.0 (Traffic Planning Software / Academic version)
7. Geo-Slope (Geo5) (Geotechnical Engineering Slope Stability Software)

5. Library

The following books are available in the department library

- | | |
|--|-------|
| 1. Reference Books | -761 |
| 2. Text Books | -1599 |
| 3. General Books | -200 |
| 4. Journals (ACI, National, International) | -688 |
| 5. Code Books | -200 |

6. Membership of Professional Bodies

The Department acquired the organizational membership of

- Association of Consulting Civil Engineers (ACCE-India), Bangalore
- Indian Concrete Institute (ICI), Chennai
- Indian Society For Technical Education (ISTE), New Delhi

7. Research Activities

The Faculty of the Department is actively involved in the research and development activities in the following areas of civil engineering.

- ❖ Concrete technology including Recycled aggregate concrete, Fly ash concrete, Geo-polymer concrete, High performance concrete and Sustainable materials



- ❖ Bridges, Shells, Folded plates and multi- storied buildings
- ❖ FEM, Expert system, ANN, and Fuzzy Logic applications
- ❖ Geotechnical engineering and geo-textiles
- ❖ Planning and design of lift irrigation systems
- ❖ Planning and design of storm water drainage systems
- ❖ Optimization of reservoir releases through fuzzy logic approach
- ❖ Remote sensing ,GIS and GPS application in Hydrology
- ❖ Ground water pollution studies
- ❖ Transportation Planning and Modeling, Micro- simulation and GPS applications
- ❖ Pavement systems engineering
- ❖ Construction Engineering and management, Environmental hydraulics, cost-effective technologies for water and waste water treatment

8. Research Projects

Name of Faculty	Name of sponsored R & D project	Amount (Rs. in lakhs) & Duration	Name of the Sponsored Agency
Prof. V. Bhikshma (Head)	Seed Money, TEQIP-II	1 Lakh & 1 Year	UCE (A), OU
Prof. M. Kumar	Identification of Block spots and Accident analysis Using GIS and GPS technology	Rs. 04.00 lakhs 2014-2016	UGC, Govt. of India
Prof. M. Gopal Naik	Unban Watershed Rainfall-Runoff Modeling using Geospatial Techniques	Rs. 15.15 lakh & 2012-2015	DST, Govt. of India
	Surface Flow Measurement using PIV Techniques	Rs. 05.00 lakh & 2014-2016	UGC, Govt. of India
Dr. M. V. S. Sreedhar	Investigations on effectiveness of commercial stabilizers in stabilization of soft clay	1 Lakh & 1 Year	Seed Money, TEQIP-II
Mr. D. Rajashekar Reddy	Seed Money, TEQIP-II	1 Lakh & 1 Year	UCE (A), OU
Mr. K. Shasikanth	Extreme Rainfall Projections of Indian summer monsoon under climate change	Rs. 80, 000/-	TEQIP-II
Mrs. D. Annapurna	Seed Money, TEQIP-II	1 Lakh & 1 Year	UCE (A), OU
Mrs. S. V. S. N. D. L. Prasanna	Seed Money, TEQIP-II	1 Lakh & 1 Year	UCE (A), OU
Mrs. P. Anuradha	Seed Money, TEQIP-II	1 Lakh & 1 Year	UCE (A), OU



9. Summary of Publications by Faculty

Faculty Name	International / National Journals	International / National Conferences
Prof. V. Bhikshma (Head)	-	6
Prof. M. Kumar (Vice Principal)	6	6
Prof. M. Gopal Naik	2	3
Prof. M. A. Prasad	2	-
Dr. P. Raja Sekhar	-	2
Mrs. K. L. Radhika	-	2
Dr. M. V. S. Sreedhar	1	-
Dr. R. Srinivasa Kumar	3	1
Mr. K. Shasikanth	-	3
Mrs. D. Annapurna	2	-
Mrs. S. V. S. N. D. L. Prasanna	-	2
Dr. D. Rupesh Kumar	-	1
Mrs. A. Usha Sri	-	1
Total	16	27

10. List of Publications in International / National Journals by Faculty

Faculty Name	Paper Title	Journal Name	Volume No. & Year
Prof. M. Kumar (Vice Principal)	Laboratory investigation of warm mix asphalt with inclusion of recycled aggregate.	i-managers, national journal on civil engineering, india	Vol 5, no-1, 2015, pp 1-7.
	Improvements in delay and queue length on selected intersection of Hyderabad city using microscopic simulation technique.	i-managers, national journal on civil engineering, india	Vol 6, no-3, 2015
	Black-spot identification using accident severity approach for Cyberabad region of Hyderabad city, a case study.	i-managers, national journal on civil engineering, india	Vol 5, no-4, 2015
	Black-spot identification and audit analysis for heterogeneous traffic conditions in Hyderabad city	i-managers, national journal on civil engineering, india	Vol -5, no-4, 2015
	Development of regression models for crash prediction and collision type estimation in Hyderabad city, a case study	Institute of urban transport	Vol 14, no-1, 2015, pp 65-74
	Development of mode choice models using multinomial logit approach in Hyderabad city	International journal of research in engineering and technology	Vol 4, issue 13, pp 311-314.
Prof. M. Gopal Naik	Experimental Study on Characterization and Pollution Potential of Contaminated	International Journal of Research in Engineering and	Vol.4(11), Pp.93-99, 2015



Faculty Name	Paper Title	Journal Name	Volume No. & Year
	Chromium Hazardous Waste	Technology	
	Estimation of Trap Efficiency of Sriramsagar Reservoir		Vol.4(11), Pp.116-122, 2015
Prof. M. A. Prasad	Rainfall-Runoff Modelling using Modified NRCS-CN,RS and GIS -A Case Study	International Journal of Engg.Research	6(3) March 2016 pp.54-58.
	Artificial Neural Network Model for Rainfall-Runoff -A Case Study	International Journal of Hybrid Information Technology	9(3) 2016, pp. 263-272
Dr. M. V. S. Sreedhar	Prefabricated Vertical Drains - Recent Developments	Journal of The Bridge & Structural Engineers, ING-IABSE Publication	Vol. 45, Number-4, Dec-2015, pp.54-63
Dr. R. Srinivasa Kumar	Comparative study of sub grade soil strength estimation models developed based on CBR, DCP and FWD Test Results	International Advanced Research Journal in Science, Engineering and Technology	Vol.2, Issue 8, August 2015
	Pavement Distress Condition Evaluation using Rolling Straight Edge	International Journal of Advance Research in Science and Engineering	Vol.05, Issue S-I(01), February 2016
	Two-way Signal Coordination by Using Simple Progressive Systems for Three-Signalized Intersections	American International Journal of Research in Science, Tech., Engg., Mathematics	Vol.13, Issue 1, December 2015
Mrs. D. Annapurna & Prof. Ravande Kishore	Comparative study of experimental and analytical results of geo polymer concrete	International Journal of Civil Engineering and Tech.	Vol. 7, Jan-Feb-2016
Mrs. D. Annapurna	Comparative study of seismic analysis of a normal building and building with floating columns	International Journal of Research in Engineering and Technology	Vol. 4, Special issue-13, Dec-2015

11. List of Publications in International / National Conferences by Faculty

Faculty Name	Paper Title	Conference Name	Volume No. & Year
Prof. V. Bhikshma (Head)	Study on flexural behaviour of recycled aggregate concrete beams using glass fibers	ISEC 8	2015
	Strength characteristics of recycle coarse aggregate bacteria concrete	Three-Day International Conference on Innovations in Structural Engineering (IC-ISE-2015)	2016
	Experimental study on flexural behavior of recycled aggregate concrete with addition of		



Faculty Name	Paper Title	Conference Name	Volume No. & Year
	Recron fibre		
	Durability and strength aspects of recycled aggregate concrete		
	Strength characteristics of HDPE concrete		
	Studies on fibrous recycled aggregate triple blended high strength concrete		
Prof. M. Kumar	Development of Mode Choice Models using Multinomial Logit Approach in Hyderabad City	IC-ISE-2015	2015/ 2016
	Trip Generation Model for a Sub Urban Region in Hyderabad City		
	Development of Speed-Flow Models for Analysis of On-Street Parking in Hyderabad City – A Case Study		
	Appraisal of Indirect Tensile Strength in Identification of RAP Concrete Mix	3 rd conference on transport research group, Kolkatta, Dec-2015	
	Development of model for tyre pavement noise interaction		
	Estimation oh highways & los on selected urban intersections in Hyderabad city, india		
Prof. M. Gopal Naik	Experimental Study on Characterization and Pollution Potential of Contaminated Chromium Hazardous Water	National Conference on Climate Change and Sustainable Water Resources Management (CSWM-2015)	2015
	Estimation of Trap Efficiency of Sriramsagar Reservoir	2 nd National Conference on Water, Environment and Society (NCWES-2015)	Pp.580-586, 2015
	Estimation of Sediment Retained in Sriramsagar Reservoir using Artificial Neural Network Techniques and Conventional Method		
Dr. P. Raja Sekhar	Impact of Climate Change on Stream Flows in Manair Basin using SWOT Model	IC-ISE-2015	2016
	Future temperature Projections for India for climate change studies		
Mrs. K. L. Radhika	A Study on the Influence of Grade of Concrete on the Pull out Behaviour of Self Compacting Concrete	UKIERI Concrete Congress; Concrete Research Driving Profit and Sustainability	2015



Faculty Name	Paper Title	Conference Name	Volume No. & Year
	A Study on Bond Slip Mechanism in Glass Fiber Reinforced Self Compacting Concrete		
Dr. R. Srinivasa Kumar	Pavement Distress Condition Evaluation using Rolling Straight Edge	3 rd International Conference on Recent Innovations in Science, Engineering and Management (ICRISEM-16)	2016
Mr. K. Shashikanth	Future temperature Projections for India for climate change studies	IC-ISE-2015	2016
	Simulation of Indian monsoon rainfall for future using GCM model outputs		
	High resolution modeling of extremes projections of ISMR under climate change	Dam Rehabilitation and Improvement Project	2016
Mrs. S. V. S. N. D. L. Prasanna	Estimation and simulation of Minor losses for flow through pipes using CFD	IC-ISE-2015	2016
	Effect Of Wind Incidence Angles On Wind Pressure Distribution for Square Tall Buildings Using CFD		
Dr. D. Rupesh Kumar	A Study on 42 Storey RCC Building with different Shear Walls	IC-ISE-2015	2016
Mrs. A. Usha Sri & Prof. N. Murali Krishna	Optimal Structural System for Efficient Lateral Performance of High Rise Buildings	IC-ISE-2015	2016

12. International Conferences attended by Faculty in Abroad

Faculty Name	Name of the Conference / Training	Duration	Country / Venue
Prof. M. Kumar	Global conference on logistics, transportataion, traffic (LTT-2015) at Waseda university	22-24, July, 2015	Tokya, Japan

13. List of Books / Proceedings Published by Faculty

Faculty Name	Title	Publisher Name	Pages	Year of Pub
Prof. M. Kumar	Statistical Techniques for Transportation Engineering	BS Publications	517	2015
Prof. M. Kumar,	Innovations in Structural Engineering - Proceedings of	Universities Press (India)	1933	2015



Faculty Name	Title	Publisher Name	Pages	Year of Pub
Prof. V. Bhikshma & Dr. D. Rupesh Kumar	Three-day International Conference on Innovations in Structural Engineering (IC-ISE-2015)	Private Limited, Hyderabad		

14. Guest Lectures delivered by Faculty

Faculty Name	Name of the organization	No. of guest lectures
Prof. V. Bhikshma (Head)	Engineering Staff College of India, Hyderabad	2
	at various institutions	25
Prof. M. Kumar (Vice Principal)	VNRVJIT	2
	ICFAI Hyderabad	2
	Avanthi Engineering College	2
	ERM, CED, UCE (A), OU	1
	Malla Reddy Engineering College	2
	VBIT	2
	Panchayat Raj Department	4
	NAC	2
	RJKUT	5
ESCI	1	
Prof. M. Gopal Naik	Institute of Engineers India (IEI), Hyderabad	1
Prof. M. A. Prasad	Chirala Engineering College, Chirala, Andhra Pradesh	1
Mrs. K. L. Radhika	RGUKT, Basar	5
Dr. M. V. S. Sreedhar	Engineering Staff College of India, Hyderabad	2
Dr. R. Srinivasa Kumar	Department of Civil Engineering, Malla Reddy Engineering College, Dhulapally, Hyderabad	1
	Engineering Staff College of India, Hyderabad	4
	Engineering Staff College of India, Guwahati	4
Mrs. S. V. S. N. D. L. Prasanna	RGUKT, Basar	5
Dr. D. Rupesh Kumar	Malla Reddy Institute of Technology & Science, Maisammaguda, Dhulapally, Secunderabad	1
Mrs. P. Anuradha	RGUKT, Basar	5
Mr. R. Rajender	RGUKT, Basar	10
Mr. L. Ajay Kumar	RGUKT, Basar	5



15. Conferences / Workshops / Seminars / Trainings organized by Faculty

Faculty Name	Title	Dates	Sponsored by
Prof. M. Kumar, Prof. V. Bhikshma & Dr. D. Rupesh Kumar	Three-Day International Conference on Innovations in Structural Engineering (IC-ISE-2015)	14-16 December 2015	TEQIP-II
Dr. P. Raja Sekhar & Mr. K. Shashikanth	Engineering Research Methodology - 2016	29-31, January, 2016	TEQIP-II
Dr. M. V. S. Sreedhar	Laboratory demonstration for ESCI Trainees	14.02.16	ESCI, Hyderabad
	NIRMAAN-2016	4-5, March-2016	CED, UCE (A), OU.
Dr. R. Srinivasa Kumar	Land Surveying using Auto Level, GPS & Total Station	6-7, Nov 2015	CED, UCE (A), OU.
Mr. K. Shashikanth	Engineering Graphics using Auto CAD	9, October, 2015	TEQIP-II
Mr. R. Rajender	Training programme on "LaTeX - A Document Preparation System"	4th April, 2015	UCE, OU

16. Workshops / Seminars / Trainings / Courses attended by Faculty

Faculty Name	Title	Dates	Sponsored by
Prof. V. Bhikshma (Head)	Training programme on Management capacity enhancement for effectiveness for administrative heads of institutions	25 - 29 May, 2015	-
Dr. M. V. S. Sreedhar	Workshop on "How to write Research Proposal"	18.09.2015	TEQIP-II
	Indian Geotechnical Conference, IGC-2015	17-19, December-2015	Self
	Geosynthetics in Infrastructure	29, January - 2016	Self
Mrs. S. V. S. N. D. L. Prasanna	Urban Flood Modeling – Short Term Course	10 th – 12 th December, 2015	-
	Computational Methods in Fluid Dynamics (CMFD-2015) – Three Day Workshop	16 th – 18 th Dec, 2015	Matrusri Education Society
Dr. D. Rupesh Kumar, Mr. R. Rajender & Mr. L. Ajay Kumar	Training Program on Structural Steel Design - Indian Structural Steel Professionals and Academicians Meet (ISPAT-2015)	25-29 May, 2015	TEQIP II
Mr. L. Ajay Kumar	Engineering Graphics using AutoCAD	9 th , October, 2015	Department of Civil Engineering, UCE, OU.



17. Achievements / Awards

Faculty Name	Achievements / Awards
Mr. K. Shashikanth	Reviewer of Journal: Journal of Earth System Science, (JESS) published by Indian Academy of Sciences, Bangalore, India
Dr. D. Rupesh Kumar	Hon. Joint Secretary, Indian Concrete Institute-Hyderabad Centre

18. Industry and Institute Interaction

Our students of B.E 3/4 undertake Summer Internship of 6 weeks duration at different companies of Civil Engineering. In this connection the various companies offered Internship to our students during the recently concluded summer include the following

1. AARVEE Associates
2. NCC
3. SS Consultants
4. Murthy and Manyam Consultants
5. HGCL
6. G Group
7. Ultratech
8. Adarshila Consultants

During the internship the students are exposed to various facets of practical works needed in Construction Companies such as Preparation of M-Books recordings, Surveying, preparation of estimates and analysis and design of building structures. Our faculty has wide exposure in various fields of Civil Engineering which include analysis and design of Industrial Structures, bridges and Residential buildings. This apart the faculty members are also expertise in Quality assessment of water, Irrigation Structures, Water Resources Related Consultancy Projects, transportation engineering related Consultancy projects. The department also undertakes consultancy works in Geotechnical specialization. Our faculty holds responsible positions in APPSC and UPSC. The faculty also inspects various institutions at the behest of Government of India and UGC.

19. NIRMAN 2016

It is a National Technical Symposium organized exclusively by the Department students for their counterparts from various colleges in the country. Besides technical paper presentation by the student delegates, NIRMAAN organizes competitions like technical quiz, technical cross words, design and modeling of structures etc. to encourage and tap the talent potential of budding civil engineers. Attractive prizes are awarded to the winners of various competitions. So far the Department has organized NIRMAAN event 14 times since 2002 and each year this prestigious event



receives over hundred delegates. The students of the Department are immensely benefited by the event in terms of development of organizational and leadership capabilities besides expanding their relationship with the student community from various colleges. The programme was organized under the guidance of **Dr. M. V. S. Sreedhar** (Faculty Member of the Department).



International Conference on Innovations in Structural Engineering (IC-ISE-2015) organized first time in the history of 85 years of the department, 14-16 December 2015



Inaugural Session



Inaugural Session



Valedictory Session



Team - IC-ISE-2015



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





TEACHING FACULTY

Professors



Dr.P.Premchand



Dr.S.Ramachandram
Vice Chancellor,OU



Dr. S. Sameen
Fatima



Dr.P.Ram Kumar

Associate Professors



Mr. M. Venkat Dass



Mr.S.Ram Babu



Mr.S.Srinivasa Rao



Mr.L.K.Suresh
Kumar

Associate Professors



Dr.K.Shyamala

Assistant Professor



Mrs.P.V.Sudha

Assistant Professors (M C A)



Dr.V.B.Narsimha



Mrs.B.Sujatha



Mr.M.A.Hameed



Mrs.E.Pragnavi



Mrs.V.Sukanya

Assistant Professors (Contract)



Mrs.K.Pranitha
Kumari



Mr.K.Srinivas Reddy



Mr.I.Govardhan Rao



Mrs.A.Gayathri



Mrs.S.Radha Rani



Mr.M.Narendar



Mrs.C.Vani



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Profile

The decade of 80s had seen a phenomenal growth in the field of Computer Science & Engineering in India. In tune with the global development, Osmania University also initiated a post graduate programme in Computer Science & Engineering in the year 1981, when the U.G.C. identified the University for its Manpower Development Programme. This program was being conducted at the University Computer Centre.

The Department of Computer Science and Engineering came into being in the year 1988. Since then it is offering most sought after courses in the field of Computer Science and Engineering, both at undergraduate and graduate levels. The department has well qualified staff, Infrastructure and state-of- the- art equipment.

Apart from regular academic work, the department is actively involved in industrial training, consultancy, research and other professional activities. The department has close interaction with software development firms and R&D establishments.

Academic Programmes

Programme	Full-Time/ Part-Time	Year of Starting	Duration	Present Intake
B.E (CSE)	Full-Time	1985	4 Years	60
M.Tech (CSE)	Full-Time	1981	2 Years	25
M.Tech (CSE)	Part-time	1991	3 Years	30
MCA	Full-time	1990	3 Years	60
M.Tech (Parallel and Distributed Systems)	Full-time	2007	2 years	15
M.Tech (Embedded Systems & Computing)	Full-Time	2013	2 years	15
Ph.D (CSE)	Full-time	1987		

Faculty Profile

Faculty	Specialization
Head of the Department	
Mr.S.Ram Babu, M.Tech	Computer Graphics, Discrete Mathematics, Design & Analysis of Algorithms
Professors	
Dr. P.Premchand, M.Tech,Ph.D.	Image Processing



Dr. S.Ramachandram, M.Tech,Ph.D. (Vice Chancellor, O.U)	Distributed Computing, Mobile Computing
Dr. S.Sameen Fatima, MS, Ph.D. Principal, UCE, O.U	Information Retrieval Systems, Machine Learning, Text Mining
Dr. P.Ram Kumar, M.Tech, Ph.D.	Distributed Mobile Object Oriented System Security, Network Security
Associate Professors	
Mr.M.Venkat Dass, M.Tech.	System Software, Discrete Mathematics
Mr.S.Srinivas Rao, M.Tech.	Computer Graphics, Text Mining
Mr. L.K.Suresh Kumar, M.E.	Computer Networks, Network Security
Dr. K.Shyamala, M.Tech, Ph.D.	Parallel Processing Applications, Embedded Systems, CAD algorithms, Technology Mapping algorithms for FPGAs
Assistant Professors	
Mrs.P.V.Sudha, M.Tech	Cloud Computing, Grid Computing, Software Project Management
Dr. V.B.Narasimha, M.Tech, Ph.D.	Computer Networks, Operation Research, Software Engineering.
Mrs. B.Sujatha, M.Tech	Operating Systems, Data Structures, DBMS, Web Programming, Natural Language Process
Mr. M.A.Hameed, M.Tech	Data Mining, Soft Computation, Big Data, Machine Learning, Data Science
Mrs. E.Pragnavi, M.Tech	Operating Systems, Embedded Systems, Data Communication and Computer Networks, Network Security
Mrs.V.Sukanya, M.Tech	Data Structures, Mobile Computing
Assistant Professors (Contract)	
Mr.M.Narendar Reddy, M.Tech.	Computer Programming, Networks, Mobile Computing
Mr.K.Satyanarayana, M.Tech.	Distributed Systems, Cloud Computing, Operating Systems, Software Engg.
Mrs.S.Radha Rani, M.Tech.	Computer Networks, Network Security, Java, Unix
Mrs.K.Jaya , M.C.A.	Database Management Systems, Web Programming, MIS
Mrs.C.Vani, M.Com.	Accounts and Finance Management, Economic Analysis, Operation Research, E-Commerce
Mrs.K.Pranitha Kumari, M.Tech.	Information Retrieval Systems, Data Mining
Mr.K.Srinivasa Reddy, M.Tech.	Grid Computing, Cloud Computing, Database Security, Data Structures
Mr.I.Govardhan Rao, M.Tech.	Cloud Computing, Computer Graphics, C, Distributed Computing.



Mr.M.Thirupathi, B.Tech.	Automata Applications, Compiler Design
Mrs.A.Gayathri, M.Tech.	Distributed Systems

Other Assignments to Faculty

Mr. S. Ram Babu	Head, Dept. of CSE, UCE, OU
Dr. S.Ramachandram	Vice Chancellor, Osmania University.
Prof. P. Premchand	Dean, Faculty of Informatics, OU Chairperson, BOS in IT, OU
Prof. S. Sameen Fatima	Principal, UCE(A), OU
Mr L K Suresh Kumar	Chairperson, BOS in CSE (University).
Dr K Shyamala	Chairperson, BOS in CSE (Autonomous), Director, University Computer Center, Osmania University.
Dr V B Narsimha	Incharge MCA, Warden, Swarnamukhi Hostel for Engineering College Students.
Mr. M. A. Hameed	Mentor for Foreign Students

Research Activities

Research programme leading to Ph.D. degree was initiated a few years after the PG programme. Excellent interaction exists between the Department and R&D organizations and software development establishments in the twin cities. Keeping in view the areas of specialization of the faculty and the excellent environment for software development in and around Hyderabad, the following areas have been identified for research leading to M.Tech / Ph.D. degrees:

Artificial Intelligence, Computer Graphics, Computer Networks, Cloud Computing, Distributed Systems, Fault Tolerant Systems, Grid Computing , Image Processing, Information Retrieval Systems, Machine Learning, Mobile Computing, Network Security, Neural Networks, Pattern Recognition, Parallel Computing, Parallel Computer Architecture, Real Time Systems, Text Mining and Web Mining.

The following students were Awarded Ph.D. in the year 2015 – 2016

S. No.	Name	Title	Guide
1	Mr.S.China Ramu	Synchronization with Occasionally connected Mobile Databases	Prof.P.Premchand



Infrastructure

The computing resources that are available in the Department include 9 servers and 230 nodes connected on a high-speed LAN spread over 6 Labs in addition to this separate lab is available for Embedded Systems and Microprocessor. The following table lists the detailed information about the servers and their respective system software.

Equipment (Hardware & Software)

S.No	Configuration	Make / Model	Qty	Operating System / Application Software
SERVERS				
1	Intel Xeon E5-2420, @ 1.90 GHz Processor 16GB RAM, 2x300GB 6G SAS HDD SMART ARAY with 1GB	HP Proliant DL380 GEN8	1	Windows 2012 Data Centre / VM Ware
2	Intel Xeon E5-2420, @ 1.90 GHz Processor 16GB RAM, 3x300GB 6G SAS HDD SMART ARAY with 1GB	HP Proliant DL380 GEN8	2	Cent O.S 6.6 / Web Server
3	Intel Xeon E5-2640, @ 2.00 GHz x 2 Processor 128 GB RAM (7x16GB RAM), 4x600 GB 6G SAS HDD SMART ARAY with 1GB	HP Proliant DL380 GEN8	1	Windows 2012 / HP Matrix Cloud
4	Intel Xeon E5-2640, @ 2.00 GHz x 2 Processor 16GB RAM , 4x300GB 6G SAS HDD SMART ARAY with 1GB	HP Proliant DL380 GEN8	1	Cent O.S 6.6 / Oracle 12C
5	Intel Xeon E5-2640, @ 2.00 GHz Processor 16GB RAM , 4x300GB 6G SAS HDD SMART ARAY with 1GB	HP Proliant DL380 GEN8	1	Windows 2008 Server / IBM SPSS modular
6	Compaq Proliant ML-110, G7, PII Processor, 2 GB RAM, 80GB HDD	HP	2	Linux
7	Silicon Graphics Prism, Intel Itanium 2 CPU's 8 GB RAM, 240 GB HDD	Silicon Graphics	1	SGI Adv Linux with SGI ProPack
LABORATORIES				
9	Six Software Labs with 35 PCs in each lab & Server Room	HP, Dell, & Lenovo	194	Linux / Windows
SOFTWARE / PACKAGES				
10	Linux , MSDN, Oracle 12c, Different Compilers (C, C++ and Java) and Rational Rose			
Hardware Kits				
	Xilinx - SPARTRAN.		6	FPGA boards
	Xilinx - VERTEX		5	FPGA boards.



The Department has established a wireless LAN (Wi-Fi) at a cost of Rs 12.00 Lakhs under X plan grant from UGC. The Department LAN is integrated into campus wide network of 1GB Ethernet. Further, the department also is connected to Internet through a 6Mbps connectivity. Networking cable was upgraded with CAT-6 for better Network back bone. Every class room is provided with LCD Projectors and all labs are provided with UPS backup.

TEQIP

The department has benefited from TEQIP project in terms of equipment, network activities, and faculty development programmes since 2005. Under this activity of TEQIP, the faculty of the department presented research papers in both national and international conferences. The faculty also attended training programmes and workshops conducted in thrust areas of Computer Science and Engineering. In addition, books, journals and furniture were also procured from the project TEQIP. This year under TEQIP Phase – II the department has been sanctioned funding again.

Library

The Department has its own Library containing about 6858 volumes of books catering to the needs of the department students and staff. Students also have access to College and University Libraries in addition to the Department Library. Most of the leading journals such as IEEE and ACM are procured and are kept at the Information Dissemination Centre (IDC). Further IEEE journals are accessible online.

Department Achievement:

- The Department has been accredited by National Board of Accreditation, New Delhi, for 5 years from 2013-2018.

Student Achievements:

- National Level Technical Symposium (Infinity 2k16) was conducted during 4th- 5th March 2016.
- Mr P Sateesh Chandra Reddy placed through campus interview in DE Shaw with pay package 22 lakhs PA
- Preethi- scholarship of amount Rs 40,000 awarded for Dept of CSE students from cognizant .
- Anusha Peddigari & Archana Tandra presented a paper at National Conference on “ Big Data Analytics” organized by Vasavi College of



Engineering, Hyderabad.

- Kumar Fatima and Rasagna Veeramallu selected as GSA (Google Student Ambassador) .

Papers Published during 2015-2016

Prof. S. Ramachandram

1. Kurra Mallaiah, S Ramachandram, “A Stateless Key Management Technique for Protection of Sensitive Data at Proxy Level for SQL Based Databases Using NIST Recommended SP800-132”, International Conference on Applied Physics, Simulation and Computers, Vienna, Austria, 2015.
2. Kurra Mallaiah, S Ramachandram, Rishi kumar Gandhi, “ Multi User Searchable Encryption Schemes using Trusted Proxy for Cloud based Relational Databases”, IEEE International Conference on Green Computing and Internet of Things (ICGCIoT), 2015, Greater Noida, India.
3. Kurra Mallaiah, S Ramachandram, Rishi kumar Gandhi, “Word and Phrase Proximity Searchable Encryption Protocols for Cloud Based Relational Databases”, ACM International Conference on Internet of things and Cloud Computing, 2016, United Kingdom.
4. Kurra Mallaiah, S Ramachandram “Outsourcing of data but not Control: A novel approach for protection of outsourced organizational sensitive data in un-trusted service environment”, Journal of Defence Spectrum, DRDO, New Delhi.
5. Nagaraju, S. Ramachandram, “Reduce redundant broadcasting in MANETs using rough sets,” International Journal of Wireless and Mobile Computing (IJWMC), vol. 7, no. 2, pp. 103-122, 2014.

Prof S. Sameen Fatima

1. Ayesha Banu, Syeda Sameen Fatima, Khaleel Ur Rahman Khan, “Information Content Based Semantic Similarity Measure for Concepts Subsumed by Multiple Concepts”, International journal web Applications, Sept 2015, volume 7, Number 3, pg 85-94.
2. Badr Mohammed, S. Sameen Fatima, “Using Skipgrams, Bigrams, and Part of Speech Features for Sentiment Classification of Twitter Messages”, International Conference on Natural Language Processing (ICON)-2015, pg 1-8.
3. Padmaja, S Sameen Fatima, SasidharBandu, “Comparing and Evaluating the Sentiment on Newspaper Articles: A Preliminary Experiment”, Science and Information Conference 2014, London, UK.

**Prof P.Ram Kumar**

1. P.Ram Kumar, B.Nagaraju, “A New Method for Symmetric Key Cryptography”, International Journal of Computer Applications (0975 – 8887), Vol. 142-No.8, 2016.
2. P.Ram Kumar, V. Anil Kumar and R.Uttham Sai , “Security Algorithm for Communication with Dynamic Routing” WCECS -2014.

Mr L.K.Suresh Kumar

1. Mr.L.K.Suresh Kumar, “Multi-Keyed algorithm of Elliptic Curve Cryptography” 5th National Conference on Computer Networks & Information Security (NCCNIS), 2016.
2. Mr.L.K.Suresh Kumar “A Survey on Homomorphic Encryption Schemes in WSN” 5th National Conference on Computer Networks & Information Security (NCCNIS – 2016), 2016.
3. Mr.L.K.Suresh Kumar, “Detailed study of MAC Based and Level Based Routing Protocol in Wireless Sensor Networks”, 5th National Conference on Computer Networks & Information Security (NCCNIS) 2016.
4. Mr.L.K.Suresh Kumar, “ A Survey on Intrusion Detection Techniques in Wireless Sensor Networks” National Conference on Computer Networks & Information Security (NCCNIS), 2016.

Dr. K.Shyamala

1. Shyamala Kattula and Mallesham Dasari, “ On the Adaptive Motion Estimation in Video Coding, based on Video Content Analysis”, IEEE International Conference on “ Advances in Computing, Communications and Informatics” (ICACCI)-2016
2. Ravi Babu P, Shyamala K, Srinivasa Rao K ,“ Monte Carlo Simulation on GPGPU using Prefix Computation Method”, IEEE International Conference on Electrical, Computer and Communication Technologies,2015.
3. P. Vijaya Vardhan Reddy, K. Shyamala, “New scoring formula to rank hypervisors’ performance complementing with statistical analysis using DOE”, ELSEVIER’s Future Generation Computer Systems (FGCS), vol. 61, pp.54-65, 2016.
4. P. Vijaya Vardhan Reddy, K.Shyamala, and A. Venugopal Reddy. “Optimization of Hypervisors Performance Using DOE”, AICIT’s Journal of Next Generation Information Technology (JNIT), vol. 6, no. 4, pp.63-74, 2015.

**Mrs B. Sujatha**

1. B. Sujatha, “ Natural Language Query Parser using first Order Logic for Querying Relational Databases”, International Journal of Computer Applications, (0975-8887) volume 134-No.11, January 2016.
2. B. Sujatha, “Ontology Based Natural Language Interface for Relational Databases”, International Conference on Intelligent Computing, Communication and Convergence (ICCC), 2016.
3. B. Sujatha, “ A Generic model for Natural Language Interface To Database”, 6th IEEE International Advanced Computing Conference (IACC), 2016.
4. B. Sujatha, “ Natural Language Query Processing for Relational Database using EFFCN Algorithm”, IJCSE (International Journal of Computer Science and Engineering), vol.4, Issue- 02, Feb-2016.

Mrs V. Sukanya

1. Mrs.V.Sukanya, “Performance Optimization of Web Services using Data Mining Techniques”, National Conference on “Information Security” at CBIT, Hyderabad , 2015.

Mrs A. Gayatri

1. A. Gayatri, “Implementation of AES Algorithm for Area and Power Optimization by the Application of Reversible Logic and Null Conventional Logic”, International Journal of Emerging Engineering Research and Technology , Volume 3, Issue 7, 2015.

Conferences/Workshops Organized:

1. A Three day National Conference is organized on “Big Data Analytics and Cloud Computing” during 29th – 31st December 2015.
2. In collaboration with ESCI and SPFU, Training programme is organized on "Cloud Computing and Data Analytics" during 8th – 12th Feb-2016, at Osmania University College of Engineering, Osmania University campus, Hyderabad (TS).

**Conferences/Workshops/Training Programs attended:**

1. Mr.M.Venkat Das, Smt.P.V.Sudha and Mr.M.A.Hameed, attended Workshop on “Banking Technologies “ organized by IDRBT, Hyderabad, during 29th – 30th June, 2015.
2. Mrs P V Sudha attended workshop on “Software Defined Networks Key to Cloud Computing”, organized by IDRBT, Hyderabad , during 25th – 26th September, 2015.
3. Mrs.P.V.Sudha, Dr.V.B.Narasimha, Mrs.V.Sukanya , attended a five day Training programme on “Cloud Computing and Data Analytics” during 8th -12th February 2016.
4. Dr.V.B.Narsimha, and Mr.M.A.Hameed attended the 82nd Orientation Program Organized by the UGC, Osmania University, Hyderabad during 7th Dec-2015 to 5th Jan -2016.
5. Mrs.P.V.Sudha , Mrs.E.Pragnavi, and Mrs.V.Sukanya attended a two-day training programme on “Software Defined Networks Key to Cloud Computing” Organized by Academic Institute, IDRBT, Hyderabad, during 25th – 26th September, 2015.
6. Mrs.E.Pragnavi, attended Faculty Development Programme on “Software Engineering” Organized by Department of Computer Science and Engineering, JNTUH.
7. Mrs.E.Pragnavi, Attended the Faculty Development Programme during 11th -19th December, 2015 at Accenture, India.
8. Mrs.E.Pragnavi and Mrs.V.Sukanya, attended Faculty Development Programme on “Entrepreneurship” organized by EDC, OU during 18th – 30th April, 2016.
9. Mr.T.Prabhakar Reddy, Accountant, attended Workshop on “Communication Skills in English for OUCE Non-Teaching Employees” during 11th to 16th July, 2016 at CELT, UCE, OU

R&D Projects/Consultancies:

1. Prof S. Ramachandram, Principal Investigator for project titled “Building an adaptive resource provisioning framework for applications with multiple constraints in Cloud environments”, funded by UGC for 6.04 lakhs, (2013-2016).
2. Mr L. K. Suresh Kumar, Principal Investigator for project titled “Security in mobile ad-hoc networks ”, funded by UGC for 3.8 lakhs, (2014-2017).
3. Dr K.Shyamala, Principal Investigator for project titled “ Parallel implementation of minimum spanning tree for large graphs on GPU” funded by TEQIP-II for 1.0 lakh, (2015-2016).



4. Mrs P V Sudha, Principal Investigator for project titled "Implementing Energy Management using Software Defined Networks for Cloud environment" funded by TEQIP-II for 1.0 lakh, (2015-2016).
5. Mrs A. Hameed, Principal Investigator for project titled "Creating a social network dataset excluding bots contribution" funded by TEQIP-II for 1.0 lakhs, (2015-2016).
6. Cloud Computing Research Lab was setup in collaboration with CipherCloud Pvt. Ltd. at a cost of Rs.10 lakhs.

Guest Lectures /Expert Lectures:

1. Dr K. Shyamala delivered lecture on "Introduction to Parallel Computing Technologies" , at 3-day workshop on "Parallel and Distributed Computing" , during 18th - 20th January, 2016.
2. Dr K. Shyamala delivered lecture on "Introduction to C++ AMP: Hands on Session", at 3-day workshop on "Parallel Computing Technologies" , during 18th - 20th June, 2015.
3. Mrs P V Sudha delivered lecture on "Resource Management in cloud" , at 3-day workshop on "Parallel and Distributed Computing" , during 18th - 20th January, 2016.
4. Mr A Hameed delivered lecture on "Data Mining - Techniques & Concepts" at National level workshop organized by Nizam College, Hyderabad.
5. Mr A Hameed delivered lecture on " Big Data : Hadoop " at National workshop lecture organized by Malla Reddy College of Engineering, Hyderabad.
6. Mrs.V.Sukanya delivered Lecture on "Design Analysis and Algorithms" at Mahatma Gandhi University, Nalgonda.

Future Plans:

- Establishment of High Performance Computing Lab and Data Engineering Lab.
- Establishment of Specialized Labs for Mobile Computing, Grid Computing and Embedded Systems.
- To start an M.Tech programme in Data Engineering.



Inauguration of Cloud Computing Research Lab



S-1 Laboratory



Department Seminar Library & Reading Room



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING





TEACHING FACULTY

<p>Associate Professor</p>  <p>Dr.P.Chandra Sekhar</p>	<p>Assistant Professors</p>  <p>Dr. B. Rajendra Naik</p>  <p>Dr. R. Hemalatha</p>  <p>Dr.L.Niramala Devi</p>		
<p>Assistant Professors</p>  <p>Mrs. P. Padma</p>  <p>Dr. D. Ramakrishna</p>  <p>Dr.P.Naveen Kumar</p>  <p>Mrs.P.Koti Lakshmi</p>  <p>Mr.M. Shyam Sunder</p>  <p>Mr. Md.Misbahuddin</p>  <p>Mrs. A. Bharathi</p>  <p>Mrs. R. Sandhya</p>  <p>Mrs. P. Srividya</p>			
<p>Assistant Professors (Contract)</p>  <p>Mr. K. Prem Kumar</p>  <p>Mr. R. Narendar Reddy</p>  <p>Mr. B. Ramesh</p>  <p>Mr.G.Kishore Kumar</p>			



C.V. Raman Heterogenous Computing Lab



J.C. Bose RF & Microwave Systems Simulation Lab



**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**

Phone No: 27098213

E –mail: ecedepartmentou@yahoo.com

1. About the Department:

The Department of Electronics & Communication Engineering (ECE) was established in the year 1959 with only two faculty members. It bears the indelible stamp of its founder Head of the Department, late Prof.K.Krishnan Nair. He exhorted ECE Department to become a byname for Excellence, Creativity and Enterprise. In his memory, The Commemoration Committee organizes an annual lecture by a distinguished professional. The staff members of this department are specialized in various fields like Digital Systems, Control Systems, Signal Processing, Microwaves, Microprocessor Applications, Communication Engineering, Embedded Systems and VLSI Design etc., and most of them having Doctorates. The broad spectrum of subjects in the area of ECE is fully represented. The department is presently focusing on following research topics: VLSI and Embedded System, Signal Processing, Microwave Engineering and wireless Communications.

2. ACADEMIC PROGRAMS:

Under – Graduate Courses:

Four Year B.E. Degree in ECE with an annual intake of 50 students.

Post – Graduate Courses (Regular):

Four – Semester M.E. Degree Course in ECE with Four Specializations Digital Systems, Microwave & Radar Engineering, Systems and Signal Processing, and Embedded Systems and VLSI Design, with a total intake of 70 students. M.Tech (Railway Signalling and Tele communication Engineering) incollaboration with IRISSET-Indian Railways) with maximum intake of 50 students

Post – Graduate Courses (Part-Time):

Six-Semester Part-Time M.E. Degree Course in ECE with Digital Systems, System and Signal Processing and Microwave & Radar Engineering specializations, with intake of 15 students in each specialization.

Research Programs:

The Ph.D. Program started in the year 1972. More than 50 candidates from recognized institutions are availing the programme



3. FACULTY:

Associate Professor

S.No.	Name of the Faculty	Field of Interest
1.	Dr. P. Chandrasekhar Ph.D.	VLSI and Embedded Systems. Parallel Processing and Numerical Techniques.

Assistant Professors

S.No.	Name of the Faculty	Field of Interest
1.	Dr. B. Rajendra Naik ME, Ph.D, HEAD	VLSI design, Electronics Devices, Image Processing
2.	Dr. R. Hemalatha, M.Tech , Ph.D	Embedded Systems, Wireless Communication,
3.	Dr L. Nirmala Devi M.E, Ph.D.	Signal Processing & wireless sensor Networks
4.	Mrs.P. Padma M.Tech	VLSI Design, Testability, Communication System and Mixed Signal design
5.	Dr. D. Ramakrishna, M.E, Ph.D.	RF & Microwave Communication Systems
6.	Dr. P. Naveen Kumar M.Tech , PhD	Global Positioning System and Satellite Communication
7.	Mrs. P. Kotilakshmi M.E.	VLSI design, Digital systems & Communication systems.
8.	Mr. M. Shyam Sunder M.Tech	Signal Processing, Microwave
9.	Mr. Md. Misbahuddin M.E.	VLSI Design, Analog Electronics, Microprocessors
10.	Mrs. A. Bharathi M.E.	Microwave Antenna RF and Microwave Engineering EM wave theory
11.	Mrs.R. Sandhya , M.Tech	Wireless Communications, Optical Communication
12.	Mrs. P. Srividya, M.E.	Signal Processing Communication

Assistant Professors (Contract)

S.No.	Name of the Faculty	Field of Interest
1.	Mr. B. Ramesh, M.Tech	VLSI design
2.	Mr. K. Prem Kumar, B.E.	Wireless Communication
3.	Mr.R. Narender Reddy, M.E.	Microwave Antennas
4.	Mr. G. Kishore kumar, M.E.	Systems and Signal Processing

4. RESEARCH ACTIVITIES:

The Department has an excellent record of research activities in the areas of Microwave Engineering, Wireless and Mobile Communications, Low Power VLSI, Embedded Systems, Computer Networks, Computer Vision and advanced Signal Processing.



Ph.D's awarded during the academic year 2015 -16

S.No	Name of the Student	Supervisor name	Topic
1	Mr. Mustafa Osman Ali Osman	Prof. Rameshwar Rao	Invisible Watermarking Algorithm Embedded in VLSI Chip for Authenticating Digital Image

5. Research/Consultancy Projects

SSS Project

The Self - Sustainability Support Scheme (SSS) programme was supported by the Ministry of Information Technology, Government of India. The main object of this Project was to make the department self-sustainable through earning by way of conducting Continuing Engineering Education Programme courses and consultancy works etc.

Network Project

The Department has also been selected for implementing the Electronics Education Network Project (Network Project) along with four other Institutions in the Southern India by Swiss Agency for Development and Cooperation (SDC) of various academic activities.

TEQIP – I

The Department was identified in TEQIP – I and established VLSI & Embedded Systems Laboratory with Micro-wind, VxWorks, Metrowerks, VHDL/VERILOG, Logic Analyzer, 8051 Development boards. Many faculty members attended International conferences and presented research papers. The Department organized short term courses on Embedded Systems, DSP and Communications etc.

TEQIP Phase - II

Under Technical Education Quality Improvement Program (TEQIP II), faculty members have been attending Intensive Training Programs and International Conferences and organizing short term courses. The Department is procuring state of art lab equipment and software tools such as Cadence, Tanner, Matlab, Simulink, HFSS, Spectrum analyzer, LabView, ORCAD, ARM and DSP boards etc.

Research Consultancy Project

Department has successfully completed CARS project with DRDO entitled “Real time Algorithms in Matlab and Implementation Scheme for Analysis of LPI Radar Signals,” under the supervision of Prof. K. Subba Rao and Dr. P. Laxminarayana, NERTU, OU., with a funding of Rs. 9 Lakhs.



Centre for Excellence Microwave Engineering (CEME)

In association with M/s. Astra Microwave products Pvt. Ltd, Hyderabad “Centre for Excellence in Microwave Engineering” has been established in the Department. The Objectives of the Centre are to encourage UG and PG students/ Research Scholars in the fields of RF Circuit Design, Microwave Circuit design, Simulations of Numerical methods in Electro-magnetics, Antenna Analysis and Design and Microwave Communication System Design.

MEMS Design Facility

National programme on Micro and smart systems (NPMASS) of IISc Bangalore identified CEME/Department to establish a National MEMS Design Centre. The main objectives of this activity are to make various MEMS Design tools available to research scholars and man power development programme to be carried out within and outside of our Institute. Under this program, the Department received three different MEMS Design software.

Multimedia Project

The Department received two research fellowships and DSP Processors boards worth US\$ 11000 from Analog Devices and successfully completed this project.

DST – FIST

The Department jointly with NERTU, OU was sanctioned DST - FIST project. Under DST - FIST project the department procured the following equipments.

S.No	Name of the Equipment
1	Laser Range Finder Make: Survey Labs, Model: IKE 305
2	CDMA DSSS Trainer Kit with PC based Logic Analyzer Make: Scientech, Model: 2131A
3	Satellite Communication Trainer Kit Make: Scientech, Model: ST2271
4	GPS Trainer kit Make: Kencraft, Model: KE – GPS -01
5	GPS/GSM Integration Kit Make: Keil. Model: MCB – 1750
6	Data Acquisition System Make: NI, Model: PXIe – 1062Q
7	Rover, Base Station, VHF –UHF System Make: SOKKIA Model: GRXI



CV Raman Heterogeneous High Performance Parallel Computing Lab

Department received Rs. 5, 00,000/- as a grant and 18 Desktops from AMD India Private Limited and established C.V. Raman Heterogeneous Computing lab in August 2012. The objectives of this project are to carry out collaborative research and conduct seminars/workshops in parallel processing. As a part of the project, the Department introduced an elective subject, “**Open CL Programming for Advanced Graphic Processors**”.

Ongoing Research Projects

Dr. P. Chandra Sekhar

1. Successfully executed a Major Research Project from UGC, “**GNSS Receiver: Base band algorithms using FPGA**” worth of Rs. 15 lakh.
2. Successfully executed Consultancy project from DLRL, “**Design and Development of FPGA based dual threshold WAM technique for Multilateration Systems**” worth of Rs. 9.75 lakh.

Dr. D. Ramakrishna

1. Project titled “Analysis, Design and Simulation of W – band Antenna for FMCW Applications”. It is supported by RCI, DRDO, Hyderabad, Minister of Defense, Govt. of India of amount of Rs. 9.99 lakhs.
2. Project titled Compact Microwave Band Pass Filters using Electromagnetic Band gap Structures”. It is supported by TEQIP Phase – II, UCE,OU.

Dr. P. Naveen Kumar

1. The Department in collaboration with NERTU has received the major project titled “**Investigation of Atmospheric Effects on Future Ground Based Augmentation for GPS System**”, sponsored by Department of Science and Technology, Ministry of Science and Technology, Science and Engineering Research Council, Government of India, of amount Rs. 33.33 Lakhs, for a period of 3 years. The Co-Principal investigator of this project is Dr. P. Naveen Kumar.

6. Laboratories of the Department

The Department has several advanced and well-equipped laboratories catering not only to the needs of B.E., M.E., & Ph. D. students of our department but also to other departments. The Department has (1) Basic Electronics Lab (2) Advanced Circuits Lab (3) Pulse & Digital Circuits Lab (4) Communication Engineering Lab (5) Multi-media Lab (6) Microwave Engineering Lab (7) Printed Circuits Lab (8) Computer Lab for P.G. (9)



IMPACT Lab (10) VHDL Lab (11) Image processing Lab (12) Optical Fiber Lab (13) VLSI Lab and (14) Microwave Research Lab (15) JC BOSE LAB (16) CV Raman Heterogeneous Computing lab .

The Department has a Seminar Hall, CEEP CELL and an auditorium equipped with requisite audio visual facilities.

7. INFRASTRUCTURE:

The Department procured the following equipments under various projects and schemes.

Software

- Agilent Advanced Design Systems (ADS)
- AWR Microwave Office (VSS, MWO, Sonnet)
- Zealand IE3D, SONNET High Frequency EM Simulator
- COMSOL Multi Physics, Intellisuite, Coventorware MEMS+
- VHDL/Verilog HDL, VxWorks
- VLSI – Microwind, Tanner CAD Tools.
- Xilinx ISE foundation V13.1.

Hardware:

- Agilent 8720ET Vector Network Analyzer (50 MHz-20 GHz), S-Parameter Test Set
- HP 85047A Scalar Network Analyzer (300 KHz-6GHz), S-Parameter Test Set
- Agilent E4418B EPM Series Power Meter, HP 437B Power Meters
- Advanced Micro-strip Trainer Kit.
- GPS/LRE Integration Kit.
- CDMA/DSSS Training Kit with PC based Logic Analyzer.
- Satellite Communication Training Kit.
- Embedded Systems – Intel/Motorola Processors, VxWorks, Keil IDE.
- Xilinx FPGA/CPLD
- Logic Analyzer, Power Meters.
- VDSPU – Blackfin and SHARC Processors.
- Xilinx ALTY5 – SPARTRAN – 6 FPGA boards.
- Xilinx VERTEX – 5 FPGA boards.
- 8086 Microprocessor trainer kit with interfaces
- Cypress PSOC – 8051 and ARM Trainer kits.
- HP Proliant ML 110 – G7 Intel Xeon E3- 1200 Server
- 10 KVA UPS battery backup facility
- Universal IC tester
- LCR meter, Digital Storage Oscilloscope



8. LIBRARY FACILITIES

The Department Seminar Library has the following:

1	Text Books	6205
2	Ph.D. Thesis	59
3	ME Project reports	1133
4	B.E Project reports	1056
5	IAP Reports	295
6	Lecture Notes	51
7	General Seminar Reports	403
8	CDs	184
8	Old Bound Journals	209

9. Publication:

Journals

Dr. B. Rajendra Naik

1. Ravi Boda, B Rajendra Naik “Tissue Segmentation and Bias Field Estimation of Medical Images”, ICIIIECS.
2. Ravi Boda, Sudheer Kumar Yezerla, B Rajendra Naik “Performance Analysis of Image Segmentation Methods for Noisy MRI Images”, ICCSP, APRIL 6-8, 2016, Tamil Nadu, India.
3. Ravi Boda, Sudheer Kumar Yezerla, B Rajendra Naik “Timing Analysis of Noisy MRI Images with Segmentation Methods”, ICECS-2016, Coimbatore, Tamil Nadu.
4. Shoban Mude, B Rajendra Naik “High Speed Low Power Wireless Signal Timing Analysis on FPGA Using Turbo Coding and Viterbi Algorithm”, IEEE Conference NO.37817, IICIP, Delhi Technological University, Delhi, India.
5. Shoban Mude, B Rajendra Naik “High Performance Wireless System by Using VA and GA selection”, ICCSP, APRIL 6-8, 2016, Tamil Nadu, India.

Dr. L. Nimala devi

1. “Detection of Block hole attack in MANET under AODV routing Protocol” IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250 -3501 vol,5 no.2, April 2015
2. “Implementation of SDR –based high frequency range OFDM transceiver for dedicated short range communication “ (IJCSIT) November 2015.



3. "Enhancement of clustering protocol for wireless sensor networks", International journal of Advanced Research in computer and communication engineering (IJARCCE), November, 2015.
4. "Enhancement of clustering protocol for wireless sensor networks". International conference on Wireless Communications, Signal Processing & Networking (WiSPNET) 2016' March 23rd -25th 2016 Chennai, Tamil Nadu, India.

Dr. D. Ramakrishna

1. D.RamaKrishna, V.M.Pandharipande and Shibana K.Koul "Design of Dual band Reconfigurable Substrate Integrated Waveguide Cavity Backed Slot Antenna Array", IETE Journal of Research, Volume 61, Issue 2, pp.121-131, 2015.
2. D.RamaKrishna, M.Muthukumar and V.M.Pandharipande, "Design and development of reconfigurable rectangular patch antenna array for tri-band applications. Elsevier International Journal of Electronics and Communications (AEÜ), Volume 69, Issue 1, pp.56-61, 2015.
3. P.Appa Rao, D.RamaKrishna and V.M.Pandharipande "Digital Predistorter for RF Power Amplifier" 11th International Conference on Microwaves, Antenna, Propagation & Remote Sensing ICMARS-2015, Jodhpur, INDIA, Dec. 15 – 17, 2015.

Dr. P. Naveen Kumar

1. Dr. P. Naveen Kumar, "Secure Group Key Management using Ciphertext in MANETs", **International Organization of Scientific Research (IOSR) Journal of Computer Engineering (IOSR-JCE)**, e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 18, Issue 1, Ver. IV (Jan – Feb. 2016), PP 08-13
2. Dr. P. Naveen Kumar, "Identification of Packet Droppers and Modifiers in Mobile Adhoc Networks for Improved Security", **International Journal of Advanced Research in Computer and Communication Engineering** Vol. 5, Issue 1, **January 2016**, ISSN (Online) 2278-1021 ISSN (Print) 2319 5940.

Conference Papers

Dr. P. Chandra Sekhar

1. Burugula Sai Sankalp, N Jagan mohan reddy, Boya Pradeep Kumar and Chandra Sekhar Paidimarry "A Novel FPGA Based Digital Octa-Rate Clock and Data Recovery Circuit", IEEE Asia Pacific Conference on



- Postgraduate Research in Microelectronics and Electronics (PrimeAsia), 27-29 November, 2015, Hyderabad, India.
2. Tepoju Vivek Vardhan, Bandi Neeraja, Boya Pradeep Kumar and Chandra Sekhar Paidimarry “Implementation of turbo codes using verilog-HDL and estimation of its error correction capability”, IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), 27-29 November, 2015, Hyderabad, India.
 3. Mohammad Ziauddin Jahangir, Chandra Sekhar Paidimarry and NV Koteswara Rao, “Design and Simulation of Band-gap Reference Circuit,” IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), 27-29 November, 2015, Hyderabad, India.
 4. Hari Prasad Naik and Chandra Sekhar P, “Wave Analysis using Rotated Explicit FDTD in TM Mode with Extrapolation,” ICECS-2016, Karpagam.
 5. Hari Prasad Naik and Chandra Sekhar P, “Analysis of TM Wave Propagation on Transmission Line using 2-Dimensional TLM method,” MCCS-2015 BITS Ranchi.
 6. Sireesha D and Chandra Sekhar P, “Inclination from Conventional to Contemporary Image Alignment Techniques in Remote Sensing”, Indiacom-2016, 16th – 18th March, 2016, IEEE Delhi, Bharatiya Vidyapeet’s Institute of Computer Applications and Management, New Delhi .

Dr. P. Naveen Kumar

1. Dr. Perumalla Naveen, Seelam Ch. Vijaya Bhaskar, “Analysis of VTEC using IRI-2012 and NeQuick Models over Low Latitude Region”, 19th **National Space Science Symposium (NSSS)**, Sponsored by **ISRO**, 9-12 **February** 2016, Vikram Sarabhai Space Centre, Dept. of Space, Govt. of India, ISRO-PO, Thiruvananthapuram, Kerala, INDIA.
2. Dr. Perumalla Naveen Kumar, Seelam Ch. Vijaya Bhaskar,” Analysis of Ionospheric Time Delay Effects on Navigation Systems using GAGAN Data”, 19th **National Space Science Symposium (NSSS)**, Sponsored by **ISRO**, 9-12 **February** 2016, Vikram Sarabhai Space Centre, Dept. of Space, Govt. of India, ISRO-PO, Thiruvananthapuram, Kerala, INDIA.
3. Dr. Perumalla Naveen Kumar, Seelam Ch. Vijaya Bhaskar, “Performance Evaluation of IRI-2012 and NeQuick Models over Indian Region for Single Frequency GNSS Applications”, **National Conference** on Advanced Technology for Cadastral Survey & Land Records towards Digital India (ATCSLR), Organized by CLUMA, **27-28 November 2015**, Hyderabad, India.



Mrs. R. Sandhya

1. Sandhya Rachamalla & Anitha Sheela Kancherla “Energy Efficient – Adaptive Routing Mechanism for Real time WSNs, Elixir International Journal of Electrical Engineering Volume 9, Issue 1, (PP 38142 -38147) February 2016.
2. Sandhya Rachamalla & Anitha Sheela Kancherla “ Adaptive Routing mechanism for RT – WSNs based on two – hop information; First International conference ICICCD -2016 April 2-3 2016 at Dehradun, Uttarakhand, organized by EIE department of University of Petroleum and energy studies (UPES)

10. Guest Lecture Delivered

Dr. P. Chandra Sekhar

1	Different Modeling Styles of VHDL and VERILOG	RCI, Hyderabad	19 th May, 2015
2	Case Studies Using VHDL/VERILOG HDL	RCI, Hyderabad	21 st May, 2015
3	Advanced Mixed Signal Design	FDP on VLSI and Embedded System Design at CBIT, Hyderabad	23 rd June, 2015
4	Advanced Microcontrollers: An Overview	FDP on Embedded System Design at Dept of Physics, OU	31 st Aug, 2015
5	Recent Advances in Defense Communication Systems	Dept of ECE, SVUCE, Tirupati under TEQUIP-II	6 th Feb, 2016
6	Introduction to CMOS VLSI Design Challenges	RCI, Special CEP on Low Power VLSI Techniques using Latest Techniques, 22 nd to 26 th Feb, 2016	22 nd Feb, 2016

Dr. L. Nirmala Devi

1. Delivered a Lecture in Faculty Development Program (FDP) on “Advanced Digital Communication” on 1st August 2015 at Dept. of ECE, JNTUH College of Engineering, Hyderabad.
2. Delivered a lecture on “Over view of wireless Sensor Networks” at Aurora’s Technological Research Institute on 6th October, 2015
3. Delivered a lecture on “ Communication Receivers “ at University College of Engineering, Mahatma Gandhi University, Nalgonda on 11th November 2015
4. Delivered a Lecture on Wavelength Routing in Optical Networks” at NITTR Hyderabad on 2nd February 2016.



11. Workshops/ Seminars Attended

Dr. L. Nirmala Devi

1. “Large scale wireless sensor networks’ at Amritha Vishwa Vidhya Preetham University, Kerala during 29th Jan to 1st July 2015
2. Awareness workshop on outcome –based education and accreditation at JNTU, Kukatpally 11th September, 2015
3. Short term course on Emerging Trends in Mobile Communication during 2nd – 7th May, 2016 at NIT, Goa

Dr. D. Ramakrishna

1. Workshop on Advanced Antenna Technology (IEEE IAW-2016) organized by Thiagarajar College of Engineering, Madurai in association with IEEE AP-S Madras chapter at Madurai, India from 06-10 June 2016.
2. One day Workshop on “Recent Advances in Satellite Antenna Payloads” organized by The IEEE AP-S-IIC-USA in association with the IEEE Hyderabad section’s MTT/AP/EMC Society joint chapter on 29th December 2015.
3. One day Workshop on “How to write Research Proposal” organized by University College of Engineering, Osmania University, Hyderabad under project TEQIP-II on 18th September 2015.

Mr. Md. Misbahuddin

1. 5 Days Faculty Development Programme on “Digital Communication and FEC Coding Techniques” during 11 – 15th April, 2016 organized by Department of ECE, NIT Warangal.
2. 10 Days Faculty Development Programme on “ Wireless Communication – Hands On” during 14 -23rd December, 2015 organized by Department of ECE, NIT Warangal.

12. MEMBERSHIPS OF FACULTY MEMBERS

Dr.R.Hemalatha	FIETE
Mrs L.Nirmala Devi	MIEEEE,MOSI
Mrs.P.Padma	MIEEEE
Mr.D.Ramakrsihna	MIEEEE, MIETE, MIE,MISSS,MISTE
Dr.P.Naveen Kumar	MIEEEE, MIACSIT, MISOI, MBES, MISTE, FIETE
Mrs.P.Kotilaxmi	MIETE
Mr. Md. Misbahuddin	ISTE, IETE



13. OTHER INFORMATION:

The OUECE Alumni Association is a dynamic and vibrant organization. Its main activities of OUECEAA are to:

1. Make all students to become members and active participation in the association activities.
2. Conduct reunion meets regular every half year.
3. Provide awards to best out going BE and ME students and 3rd year summer project.
4. Publishing half yearly newsletters.
5. Conducting guest lecturers with alumni.
6. Strengthening Industry-Institute Interactions.

Dr. P. Chandra Sekhar

1. Member of Preliminary Design Review (PDR) of Digital Systems ELINT Payload of Project Koutilya, DERL.
2. Organizing committee member of 2015 IEEE Asia-Pacific Conference on Post-Graduate Research in Electronics and Micro-electronics (PRIMEASIA-2015) held from 27th – 29th November, 2015.
3. Member, BOS in ECE, SNIST, CBIT, VJIT, CVSR College of Engineering, and KUCE.

Chaired sessions:

1. Prime Asia – 2015 at Vasavi College of Engineering, Hyderabad

Dr. D. Ramakrishna

1. Served as Organizing Committee member of 2015 IEEE International Microwave and RF Conference (IMaRC 2015) organized by IEEE Microwave Theory and Techniques Society (MTT-S) during 10-12 December 2015 at Hyderabad, India.
2. Serving as Organizing Committee member of 2016 Asia-Pacific Microwave Conference (2016 APMC) will be held in New Delhi, India during 5-9 Dec. 2016. This conference is sponsored by IEEE Microwave Theory and Techniques Society (MTT-S), technically supported by European Microwave Association (EuMA).

14. The Future interests of the Department are as follows

- Strengthening VLSI, Signal Processing and Microwave laboratories
- Collaborative research with foreign countries
- Establishment of Wireless Sensor Networks Lab under UGC.
- Submitting Research project proposals to various funding agencies such as DST, AICTE, UGC and DRDO etc.



- Curriculum development based on the industrial requirements.
- Active participation in Incubation Centre.
- Interacting with distinguished alumni of the Department to:
 - Establish an Alumni Block for carrying out technical events by the alumni.
 - Provide fellowships to UG students to pursue post graduation.
 - Offer Ph.D. programs to PG students.
 - Offer Post doctoral fellowships for the Department faculty to make them expert in selected fields.
 - Sponsor projects to students and faculty.

Interact with students during weekends to guide them for providing solutions that support real life problems.





Multimedia & Advanced Digital Signal Processing Lab



Microwave Lab



VLSI Lab



Department Library



DEPARTMENT OF ELECTRICAL ENGINEERING





TEACHING FACULTY

Professors		Associate Professors	
 Dr. P.V.N. Prasad	 Dr. G. Yesuratnam	 Dr. M.Manjula	 Dr. B.Mangu
Assistant Professors			
 Mr. M.V. Ramana Rao	 Dr. G.Mallesham	 Dr. P.Srinivas	 Mr.CH.Siva Kumar
 Mrs. G. V. Naga Lakshmi	 Mrs. E.Sreeshobha	 Mr. R. Linga Swamy	 Mrs. N. Susheela
 Dr. E. Vidya Sagar	 Dr. P. Satish Kumar	 Mr. P. Lokender Reddy	 Mrs. N. Srilatha
 Mrs. B. Sirisha	 Dr. J. Upendar	 Mrs. U. Suryavalli	
Assistant Professors (Contract)			
 Mrs. G. Jhansi Rani	 Mr. S. Vijender Reddy	 Mr. G. Srikanth	 Mr. G. Kiran Kumar



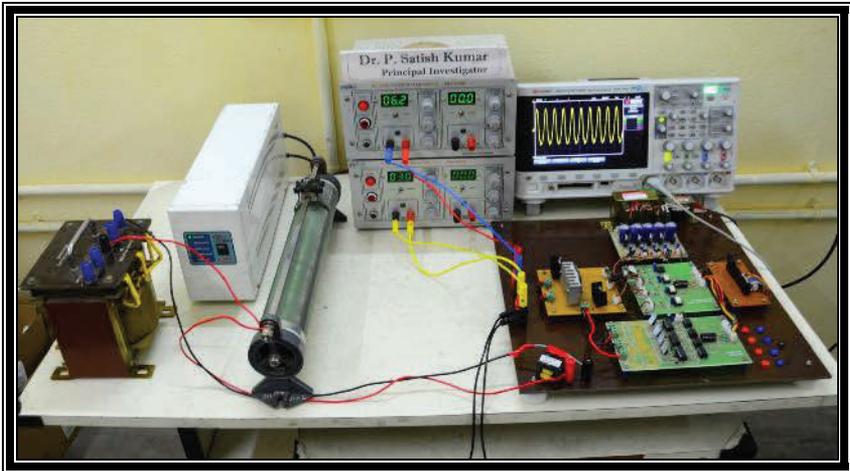
Research Lab for Multilevel Inverters (Established by Dr. P. Satish Kumar)



Three Phase Eleven – Level Cascaded H-Bridge Inverter



**Three Phase Seven-Level Neutral Point Clamped Inverter
(Established in Dr. P. Satish Kumar's Research Lab)**



Cascaded Seven- Level Asymmetrical Inverter with Reduced Switches
(Established in Dr. P. Satish Kumar's Research Lab)



Feeder Protection Unit (Power system Lab)



DEPARTMENT OF ELECTRICAL ENGINEERING

Phone No.: 040 - 2709 8628, 2768 2382

Website: www.uceou.edu/electrical/electrical.html

The Department of Electrical Engineering has started in 1949 to offer B.E in Electrical Engineering. Presently, the Department is offering B.E. in Electrical & Electronics Engineering. Continuing Education for employed diploma holders was started in 1963 through the four-year Part-Time Degree course in Electrical Engineering; The Post-Graduate course in Electrical Machines was started in 1966. Later, in the year 1987, B.E in Instrumentation was offered.

With a view to provide diversity and industrial orientation to the Post Graduate program, currently the Department is offering M.E. courses in Industrial Drives & Control and Power Systems, which were introduced in 1971. The Department also offers part time PG courses in Industrial Drives & Control and Power Systems for the working academicians and engineers. A new PG program in Power Electronic Systems is introduced in the year 2008. The Part-Time Ph.D. program in Electrical Engineering is being offered since 1972.

The Department has nineteen permanent faculty members and four teaching assistants who are highly experienced and actively involved in research activities. The Department is also equipped with state-of-art equipment and well qualified technical staff. Apart from regular academic activities, the Department faculty is involved in various professional activities like publishing their research findings in prestigious conferences and journals, organizing faculty development programs, delivering expert lectures at various conferences and important seminars, chairing technical sessions at conferences abroad and reviewing of papers of good quality journals.

Academic Programmes

Programmes	Full-Time / Part-Time	Year of starting	Duration	Intake (2015-16)
B.E. (Electrical & Electronics Engineering)	Full-Time	1949	4 Years	60+ 10% FS
M.E. (Electrical Engineering) <ul style="list-style-type: none"> • Industrial Drives & Control • Power Systems • Power Electronic Systems 	Full-Time	1971 1971 2008	2 Years	48 + 10 FS
M.E. (Electrical Engineering) <ul style="list-style-type: none"> • Industrial Drives & Control • Power Systems 	Part-Time	1971 1971	3 Years	30
Ph.D. (Electrical Engineering)	Full-Time / Part-Time	1972	5 Years	Max. 8 per each supervisor

FS-Foreign Students



Faculty of the Department

Name of the Faculty	Areas of Interest
Professors	
Dr. P.V.N. Prasad, M.E., Ph.D.	Electric Drives, Power Electronics, Reliability Engineering
Dr. G. Yesuratnam M.Tech., Ph.D.	Voltage Stability, Power Systems Security, Reactive Power Optimization, AI Applications to Power Systems
Associate Professors	
Dr. M. Manjula M.E., Ph.D.	Power Systems, Power Quality, Neural Networks, Microprocessors & Microcontrollers
Dr. B. Mangu M.E., Ph.D.	Power Electronics, Electric Drives, Design of converters for renewable sources Integration.
Head of the Dept.	
Assistant Professors	
Mr. M.V. Ramana Rao M.Tech., (Ph.D.)	Power Electronics, Electric Drives & Special Machines
Dr. G. Mallesham M.Tech., Ph.D., Post Doc.	Control Systems & Instrumentation, Neural Networks & Fuzzy Logic
Dr. P. Srinivas M.Tech., Ph.D.	Power Electronics, Industrial Drives & Special Electrical Machines with emphasis on Switched Reluctance Motor
Mr. CH. Siva Kumar M.E.	Renewable Energy Sources, Power Systems Optimization, Deregulated Power Systems, HVDC Transmission
Mrs. G.V. Naga Lakshmi M.Tech., (Ph.D.)	Electrical Power Engineering, Deregulation of Power Systems, Distributed Generation
Mrs. E. Sreeshobha M.Tech., (Ph.D.)	Power Electronics, Industrial Drives and Applications
Mr. R. Linga Swamy M.Tech., (Ph.D.)	Power Electronics & Drives, Multi level Inverters
Mrs. N. Susheela M.E. (Ph.D.)	Power Electronics & Drives, Special Machines
Dr. E. Vidya Sagar M.Tech., Ph.D.	Distribution Reliability, Power Quality, Deregulated Power Systems, Smart Grid Distribution System
Dr. P. Satish Kumar M.Tech., Ph.D.	Power Electronics, Electric Drives, Multilevel Inverters, Matrix Converters and Special Machines
Mr. P. Lokender Reddy M.Tech., (Ph.D.)	Instrumentation & Control Systems, Evolutionary Computation Techniques
Mrs. N. Srilatha M.E., (Ph.D.)	Power Systems Security, Voltage Stability, Artificial Intelligent Techniques, Microprocessors & Microcontrollers
Mrs. B. Sirisha M. Tech., (Ph.D.)	Power Electronics, Electric Drives & Special Machines
Dr. J. Uppendar M.Tech., Ph.D.	Power System, Protection, Power Electronics, Drives, FACTS devices, Artificial Intelligent Techniques
Mrs. U. Suryavalli M.Tech	Power Electronics and Machine Drives
Assistant Professor(C)	
Mrs. G. Jhansi Rani, M.Tech	Power Electronics and Industrial Drives
Mr. S. Vijender Reddy, M.Tech	Electrical Power Systems
Mr. G. Srikanth, M.Tech	Electrical Power Systems
Mr. G. Kiran Kumar, M.Tech	Electrical Power Systems, Reliability Engineering



Research Activities

- DSP Control of AC/DC Motor Drives
- Brushless DC (BLDC) Motor Drives
- Reliability Engineering in Power Systems & Maintenance Scheduling
- Modelling and Control of Switched Reluctance Motors
- Power Quality Problems – Detection and Classification
- Deregulated Power Systems
- Multilevel Inverters, Voltage Sag Indices,
- Artificial Intelligent Techniques in Power System Analysis and Automation
- Power System Security & Congestion Management
- Renewable Energy Systems

Events Organized by the Department

1. **Third Diamond Jubilee Endowment lecture** on “*Smart Grid Security*” by Prof. Ramki Turimalla, Professor and Chair Director, Colorado Research Institute for Security and Privacy, RUTCHE school of Engineering and Computer Science, University of Denver, USA, coordinated by **Dr. J. Upendar and Dr.P Srinivas** on 28thMar 2016.
2. **Techsonance-2016**, 17th National level students Technical Symposium, on March, 2016 coordinated by Mrs. N. Susheela and **Mr. P. Lokender Reddy**.
3. **One day Field Study program** on “33/11 KV substation at ICT, Tarnaka, Hyderabad” to BE III/IV, 2nd semester students coordinated **Dr. J. Upendar, Dr. P Srinivas, Dr. E.VidyaSagar and Mrs. N. Srilatha** on 6th Jan 2015.
4. **Guest lecture** on “*Methodologies and Preparedness for high quality research*” by Prof. M.H.Rashid, University of West Florida, USA, coordinated by **Dr. J. Upendar** on 07thDec 2015.
5. **One week training programme** on “*Power Electronics and Drives for vehicular systems – Technology status & Future trends*”, coordinated by **Mrs. E. Sreeshobha and Mrs. U. Suryavalli**, under TEQIP-II and Transco, TVS, Mahindra & Mahindra, Commissioner of Industries-Govt. of Telenagana, Techlabs are the other sponsor are the other sponsors, during 23rd to 28th November, 2015.
6. **Two-day training programme** on “*TRANSCO Foundational Course*” (Class room training and visit to substation), coordinated by **Mrs. U. Suryavalli** at Corporate Training Institute, TRANSCO, Hyderabad, during 16th and 17th October 2015.



Infrastructure

The theory courses are complemented by the following Laboratories / Halls that are developed and strengthened over the years with specialized equipment.

E-Class room, Machines Lab – I, Machines Lab – II, Measurements Lab, Circuits Lab, Integrated Circuits Lab, Control Systems Lab, Microprocessors and Microcontrollers Lab, Computer Lab, Power Electronics Lab, Power Systems Lab, Programmable Logic Controllers Lab, Simulation Lab for UG, Solid State Drives Lab, Projects Lab for BE students, Computation Lab for PG for Projects and R&D

Activities under Technical Education Quality Improvement Program (TEQIP-Phase I&II)

Department has received funds under TEQIP for development of laboratories and imparting Training / Research activities for Teaching and Non-Teaching staff. New PES lab for M.E is developed. Seed money for project is sanctioned to three teaching faculty.

Professional Software

CASPOC, MOTORPRO, EDSA, PSCAD, PSSE

Hardware Equipment

Photovoltaic Training & Research Kit, Power Analyzer, 6.5 Digit Multimeter, Switched Reluctance Motor & Power Module, Digital Signal Processor based motor drives, Programmable Logic Controllers (PLC) & SCADA, Process Control Trainer, PLC Trainer, Temperature Controller, Protective Relay Test set, Multi level Inverters, DSP Processors, Numerical Relays, Feeder Protection Unit and Induction and Synchronous machines with power electronic controls.

Software/ Equipment Purchased With UGC X Plan Grant

PC Schematic EL Automation Educational Bundle Ver. 6.0, 8086-Microprocessor Trainer kits, Compaq PIV PCs, MATLAB-Ver.R2006a, Computer Server, Laser Printers / Scanner, Multimeters.

Departmental Library

No. of Conference /Proceedings IEEE:	77
Hand books:	34
Software Manuals:	36
Total No. of titles:	3,219
Ph.D. Thesis Reports:	13
B.E. Project Reports:	202
M.E. Project Reports:	303



Faculty Achievements

1. **Mr. B.Mangu** has obtained Ph.D. degree from IIT Mumbai, under the guidance of **Prof. B.G.Fernades** during July 2016.
2. **Dr. G. Mallesham** completed Post Doctoral under UGC Raman Fellowship at Yale University, Connecticut, USA, during 2014-2015.
3. **Dr. J. Upendar** is the Reviewer for the journal “IEEE Transactions on Power Delivery”, TPWRD-00776-2015, from June 2015.
4. **Dr. J. Upendar** is the Reviewer for the journal - “IET Generation, Transmission & Distribution” from April/May 2015.
5. **Dr. J. Upendar** is the Reviewer for the following conferences - IEEE conference on “Power, Control, Communication and Computational Technologies for Sustainable Growth (PCCCTSG-2015)” conducted by EED, GPREC, Kurnool, Andhra Pradesh during 11th – 12th Dec 2015.
6. **Dr. P. Satish Kumar** received “**Global Teacher Role Model Award-2015**” from the Manushyabal Vikas Lokaseva Academy, Mumbai on 27th December, 2015.
7. **Dr. P. Satish Kumar** received the “Award for Research Excellence” at Indo-Global Education Expo & Summit 2014 on 20th November 2014.
8. **Dr. P. Satish Kumar** received “Best Teacher Award- 2014” from the Government of Telangana on 05th September, 2014.
9. **Dr. P. Satish Kumar** is acting as Editorial Board member for “GE-International journal of Engineering Research”.
10. **Dr. P. Satish Kumar** is acting as Reviewer for an international journal “Journal of Electrical and Electronics Engineering Research”.
11. **Dr. P. Srinivas** is acting as editor for Bulletin of Electrical Engineering and Informatics, Indonesia.

Student Achievements

Institution and Industry Interaction :

The students are pursuing their B.E / M.E Project works in the following Industries / Organizations:

- Central Power Research Institute (CPRI), Bangalore
- National Thermal Power Corporation (NTPC), Ramagundam
- Bharat Heavy Electrical Limited (BHEL), Hyderabad
- GENPACT, Hyderabad
- GE IIC, Hyderabad
- DRDO, Hyderabad
- Crompton Greaves Ltd, Mumbai
- Honeywell Technology Solutions (HTS)
- National Remote Sensing Agency (NRSA), Hyderabad
- PLC Lab EED, OUCE



Field Visits

Various faculty members have coordinated one day field study to **220KV Substation** at Chandrayanagutta; **33/11 KV Substation** at ICT, Tarnaka, **132KV Gas Insulated Substation** located in Osmania University Campus, Hyderabad for BE III/IV students during their first and second semesters.

Placement Details of 2015-16 batch

Name of the Placement Provider	Number of Job Offers made
Deloitte India	1
Shoretel	1
Net Cracker	10
Accenture	26
Infosys Limited	19
Wipro Limited	20

Name of the Placement Provider	Number of Job Offers made
ITC AGD (Guntur)	1
L & T Constructions)	2
Capgemini	15
Hero	1
Cyient	1
Adani Energy	4

Research Publications in National / International Journals and Conferences during 2015-16

Name of the Faculty	National/ International Journals	National / International Conferences
Dr. P.V.N. Prasad	2	1
Dr. G. Yesuratnam	3	3
Dr. M. Manjula	2	1
Dr. B. Mangu	1	-
Dr. P Srinivas	2	1
Mrs. E. Sreeshobha	-	2
Mr. R. Linga Swamy	-	1
Dr. E. Vidya Sagar	-	2
Dr. P. Satish Kumar	4	5
Mr. P. Lokender Reddy	-	1
Mr.G. Kiran Kumar	-	2

Expert Lectures Delivered

Faculty	Topic of the lecture
Prof. G. Yesuratnam	Expert lecture on outcome based accreditation of NBA at Annamacharya institute of technology and science, Rajampet, during 20-21 Jan 2016
	Expert lecture on power system security improvement with fuzzy approach, during two day FDP on softcomputing techniques and their applications in electrical engineering on 20 th Feb 2016 at Pragathi Engineering College, A.P



Faculty	Topic of the lecture
Dr.B.Mangu	Acted as session chair for “International Conference on Paradigms in Engineering and Technology” at Methodisat Colelge of Engineering and Technology, Hyderabad, on 2 nd and 3 rd March 2016
Dr. P. Srinivas	“Optimal Control of Switched Reluctance Motor” on 21 st August 2015 at a National Conference on Innovations and Challenges in Electrical and Bio-Medical Electronics (IDCEME 15) Organized by Gokaraju Rangaraju Institute of Engineering and Technology (A), Hyderabad.
Dr. E. Vidya Sagar	“Smart Technologies and Emerging Trends”, conducted by ESCI, Hyderabad at JNTUCE, Hyderabad (TS). on 24 th , February 2016
	“Electric Vehicles and their impact on Smart Distribution Systems” one week work shop on “Power Electronics and Drives for Vehicular Systems-Technology Status and Future Trends” from 23 rd to 28 th November , 2015 at EED, OUCE, OU
Dr. J. Upendar	“Power Electronics Converters and Application” , University College of Engineering and Technology, Mahatma Gandhi University, Panagal, Nalgonda, Telangana State, 05 th December 2015
	“Solar Basics-MPPT methods, Analysis of Different MPPT Algorithms of Solar PV Systems”, at EED, Malla Reddy Engineering College for Women, Medchal, Secunderabad-500014, Telangana.24 June 2016
	“Solar –Basics-MPPT Methods-Hardware Implementations” at EED, Sreenidhi institute of science and technology, Ghatkesar, Hyderabad.11 th July 2016
Dr. P. Satish Kumar	Expert lecture in a two day national workshop on “Simulation Tools for Power Electronics Applications” at JITS, Karimnagar on 12 th March, 2016.
	Key note address in a one day national seminar on “Emerging Trends in Power Electronics & Power Systems” at Mahatma Gandhi University on 13 th March, 2015.
	Expert lecture on “Power Electronics” at Guru Nanak Engineering College, Hyderabad on 08 th Dec, 2015.
	Expert lecture on “Emerging Trends in Power Electronics & Power systems” in a three day workshop (ETPEPs-2016) at CVR College of Engineering on 12 th February, 2016.
	Session chair in an International Conference on Paradigms in Engineering & Technology” organized by the Methodist College of Engineering & Technology, Hyderabad, 3 rd March, 2016.

Training / Learning Activities of the Department:

- Dr. E. Vidya Sagar** attended seven day work shop on “3rd Training and Orientation Programme for NSS Program Officers” Sponsored by the Ministry of Youth Affairs and Sports, Government of India, organised by Empanelled Training Institute , NSS, Osmania University from 20th to 26th May, 2016 at UGC–Human Resource Development Centre, Osmania University, Hyderabad.



2. **Dr. P. Srinivas and Mr. R. Linga Swamy** attended the Short term course titled “*Applications of Power Electronics to Renewable Energy (APERRE-2016)*”, organized by Department of Electrical and Electronics Engineering, National Institute of Technology, Goa , during 12th to 14th May, 2016
3. **All the lady faculty** of the department have attended one day workshop on “*Women for Excellence*” on 9th March, 2016, on the occasion of International Women’s Day organized by University College of Engineering (A), Osmania University.
4. **Dr. E. Vidya Sagar and Dr. J. Upendar** attended One Week Training Programme on “*Cloud Computing and Data Analytics*” at department of computer science engineering, University College of engineering, Osmania University, and “The Institution of Engineers India” Telangana State, from 08thFeb 2016 to 12th Feb 2016.(Sponsored by TEQIP-II).
5. **Dr. E. Vidya Sagar and Dr. J. Upendar** attended the one day workshop on “*Engineering graphics using AUTOCAD*” organized by Civil Engineering Department , UCE, Osmania University, Hyderabad, Telangana State, on 9th Oct 2015.(sponsored by TEQIP-II)
6. **All the faculty** of the department have attended one day work shop on “*How to Write Research Proposal*” on 18th September, 2015 , organized by University College of Engineering, OU, Hyderabad.
7. **Dr. E. Vidya Sagar** attended one day work shop on “*Protection of Intellectual Property through Patents*” on 12th September, 2015, Conducted by Hetero Group and Mahindra Ecole Centrale Hyderabad.
8. **Dr. J. Upendar** attended the one day orientation Programme on “*Research and Consultancy*” at Research Development and consultancy cell (RDCC), University college of science, Osmania University, Hyderabad, Telangana State, on 23rdSept 2015.
9. **Dr. J. Upendar** attended the three day National workshop on “*Embedded Systems and Applications*” at Department of Physics, UCS, Osmania University, Hyderabad, Telangana State, from 29th - 31st Aug 2015.

Future Plans of the Department

To establish Research Centers in the field of

- Power Systems
- Special Electrical Machines
- Power Electronics & Industrial Drives



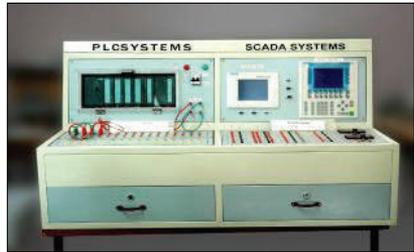
Industrial Process Control Trainer



IPM Power Module with DSP Controller



Photo Voltaic Training and Research Kit



PLC and SCADA Systems



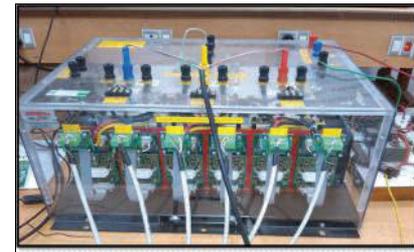
Power Analyzer



Relay Protection Test Set



DSP based Multilevel Inverter Fed Induction Motor Drive



Three Level Diode Neutral Clamped Inverter



Student Achievements	
	<p>Ketharaju Shivani (100511734048),</p> <ol style="list-style-type: none"> Working as Assistant Engineer at TSTRANSCO STATE 2nd in TSGENCO AE Recruitment Examination NOV'15. Selected as Asst.Engineer in all the Telanagana state power utilities(TSSPDCL(Rank 15),TSTRANSCO (Rank 121),TSGENCO (Rank 02) ,TSNPDCL(Rank 153).) Secured Gold medals from UCE, OU, for achieving overall academic excellence and for standing first in all 8 semesters.
	<p>Name: Shashikumar Gurijala [EEE-2011-2014 batch] Gate 2014 Rank: AIR 19 Current job: Working in NTPC as an Executive Trainee</p>
	<p>Gajula Jyothi,(B.E EEE 2013 passout from OUCE) M.Tech from IIT(Indian Institute of Technology) Hyderabad.</p> <ol style="list-style-type: none"> Worked in Cognizant for a period of one year. Joined in TSSPDCL as Asst.Engineer Got STAT E 2nd in TSSPDCL AE Recruitment Exam NOV'15. Selected as Asst.Engineer in all the Telanagana state power utilities Exams- TSSPDCL(Rank 2),TSTRANSCO (Rank 104), TSGENCO (Rank 137), TSNPDCL(Rank 147).



Third diamond jubilee lecture on “Smart Grid Security” by Prof. Ramki. Turimalla, Professor and Chair Director, Colorado Research Institute for Security and Privacy, RUTCHE school of Engineering and Computer Science, University of Denver, USA, on 28th Mar 2016. (Coordinator’s- Dr.P.Srinivas, Dr.J.Upendar)



Third diamond jubilee lecture on “Smart Grid Security” by Prof. Ramki. Turimalla, Professor, University of Denver, USA, on 28th Mar 2016.



Third diamond jubilee lecture on “Smart Grid Security” by Prof. Ramki. Turimalla, Professor, University of Denver, USA, on 28th Mar 2016.



lecturer on “Methodologies and preparedness for high quality research” by Prof.M.H.Rashid, University of West Florida, USA, on 07th Dec 2015, (Coordinator- Dr.J.Upendar)



Guest lecturer on “Methodologies and preparedness for high quality research” by Prof.M.H.Rashid, University of West Florida, USA, on 07th Dec 2015, (Coordinator- Dr.J.Upendar)



One week FDP on “Distributed Generation & Power Quality Issues” on 30th June-5th July, 2014. (Coordinator’s- Mr. CH. Siva Kumar, Mrs. G.V. Naga Lakshmi)



Three-day Workshop on “ Application of Simulation Tools to Modern Power Systems” on 7th -9th May, 2015, (Coordinator’s- Dr. E. Vidya Sagar & Mrs. N. Srilatha)



One week Training program on “Power Electronics and Drives for vehicular systems – Technology status & Future trends” 23rd to 28th November, 2015. (Coordinator’s- Mrs. E. Sreeshobha & Mrs. U. Suryavalli)



Three day work shop on “Solar Photovoltaic Training Program” on 2nd – 4th March 2015. (Cordinators- G. Malleham, Dr. P.Srinivas)



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DEPARTMENT OF MECHANICAL ENGINEERING





TEACHING FACULTY

Professors



Dr. A Krishnaiah



Dr. P Laxmi Narayana



Dr. Sriram Venkatesh

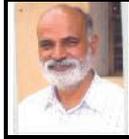


Dr. P Ushasri

Associate Professors



Mr. Mohana Murali



Mr. V Nageswara Rao



Dr. M V Ramana Murthy



Dr. R Rajendra



Mr. V Uma Maheshwar



Dr. M Chandra Sekhar Reddy



Dr. P Ramesh Babu

Assistant Professors



Dr. K Saraswathamma



Dr. Narsimhulu Sanke



Dr. L Siva Rama Krishna



Mr. G Narender



Dr. B Hadya



Mr. E Madhusudan Raju



Mrs. T Nagaveni



Ms. TSRV Padmalatha

Assistant Professors(Contract)



Mr. G Venkateshwarlu



Mr. K L Uday Kiran



Mr. K Venkateshwarlu



Mr. K Ashok Kumar



Mr. M Prakash



DEPARTMENT OF MECHANICAL ENGINEERING

Ph.No: 40 2709 7346

Email: med.ouce@gmail.com

Profile:

Mechanical Engineering Department was established in the year 1939 at University College of Engineering, Osmania University to offer four year degree course with an intake of 60 students. It has since then grown significantly by spreading its academic activities in offering courses at Undergraduate level as well as Post Graduate level. The department faculty is actively involved in guiding research scholars leading to Ph.D. degree.

The Department is offering Post Graduate Programmes in Production Engineering, Turbomachinery and Automation & Robotics both in regular/part time. It is also running three P.G Programms in CAD/CAM, Tool Design and Design for Manufacture in Collaboration with Central Institute of Tool design (CITD), MSME, Govt. of India. The Department receives research and modernization grants from UGC, MHRD, AICTE and TEQIP.

The Department has highly qualified and motivated faculty to impart quality education and academic insights. In order to keep pace with changing needs of educational standards and industry needs, the department revises the curriculum every year. The revised curriculum for B.E and M.E courses includes subjects like Computational Fluid Dynamics, MEMS, Nano-Materials, Composite Materials, Computer Aided Modeling & Design, Rapid Prototyping and Neural Networks & Fuzzy Logic in addition to conventional subjects.

The syllabi for four year B.E Degree Course is classified into the following categories:

1. Strengthening of basic concepts in Physics, Chemistry, Mathematics and Engineering Mechanics.
2. Engineering Drawing Practice.
3. Design of Mechanical Systems
4. Manufacturing Technology
5. Utilization techniques of thermal and other forms of energy.
6. Industrial Engineering and Management.
7. Computer languages.
8. Computer Aided Design and Analysis.
9. Laboratory Practice to make the students understand the Practical aspects of the theoretical principles taught in the classroom.
10. Specialized and developing areas (as elective subjects).



Faculty of the Department

Name of the Faculty	Research Areas/Specializations
Professors	
Prof. A.Krishnaiah, Head, Ph.D (IIT Madras), Post Doc (South Korea)	Manufacturing, Severe Plastic Deformation. Nano Technology
Prof. P Laxminarayana, Ph.D.	Production Engineering, Industrial Engineering Engineering Research Methodology
Prof. Sriram Venkatesh, Ph.D	Material Handling, CAD/CAM, Advanced Kinematics, Additive Manufacturing Technologies and Applications,
Prof. P.Usha Sri, Ph.D.	Thermal Engineering, Turbo machinery, Computational Fluid Dynamics
Associate Professors	
Mr. K. Mohan Murali M.Tech.	Industrial Mgmt, Industrial Engg, Operations Research, Automobile Engineering
Mr V. Nageswara Rao M.E.	Robotics, Machine Design
Dr. M.V.Ramana Murthy, Ph.D	Non Conventional Energy, Heat Transfer
Dr. R.Rajendra, Ph.D	Production Engineering, Metrology & Instrumentation, Robotics
Mr. V.Uma Maheshwar, M.E.	Thermal Engineering, Turbomachinery, Cascade Aerodynamics,
Dr. M.Chandra Sekhar Reddy, Ph.D,	Machine Design, Vibrations, Finite Element Analysis
Dr. P.Ramesh Babu Ph.D	Composite Materials, Finite Element Methods
Assistant Professors	
Dr. K. Saraswathamma, Ph.D.	Production Engineering, micro machining, Finite element Analysis.
Dr. Narsimhulu Sanke, Ph.D.	Thermal Engineering, Renewable Engineering Sources, Computing languages
Dr. L SivaRama Krishna, Ph.D	Production Engineering, Additive Manufacturing
Mr. G Narendar, M Tech.	Thermal Engineering,
Dr. B Hadya, Ph.D.	Thermal Engineering, Heat Transfer
Mr.E. Madhusudan Raju, M.E	Automation & Robotics, Control systems
Mrs. T Nagaveni, M.E.	Production Engineering, Ceramic Processing
Miss.TSRV Padmalatha, M.E.	Production Engineering, Manufacturing Systems.
Assistant Professors (Contract)	
Mr. G Venkateswarlu, M.E.	Production Engineering,
Mr. K. L. Uday Kiran, M.E	Production Engineering,
Mr. K Venkateswarlu, M.E.	Production Engineering,
Mr. U Ashok Kumar, M.E.	Advanced Design & Manufacturing:
Mr.M Prakash, M.E.	Production Engineering;
Instrumentation Engineer/ Scientist	
Dr. K Buschaiah Ph.D (I.E./SCIENTIST)	Production Engineering



Research Activities:

Department has undertaken extensive consultancy and research programmes in the following, major fields:

1. Composite and Nano materials
2. Additive Manufacturing
3. CAD/CAM Applications.
4. Non Conventional Energy systems.
5. Manufacturing.

Laboratories of the Department:

1. Advanced Manufacturing
2. Production Engineering
3. Metrology & Instrumentation
4. Metallurgy & Materials
5. Hydraulic Machines
6. Thermal Engineering
7. Workshop & Foundry
8. CAD/CAM
9. Computer Programming
10. Automation & Robotics
11. Center for Prototyping & Industrial

Research/Consultancy Projects (ongoing):

Title of the Project	Coordinators/ investigators	Funding Agency	Cost in Lakhs of Rs.
Production of Ultra-fine Grained Copper Tools by Equal Channel Angular Extrusion for Micro-Machining	Investigator: Prof A Krishnaiah	UGC	8.10
Development and experimental analysis of window AC system with roll bond condenser	Investigator: Dr P Ushasri CoInvestigator: Mr. B.Hadya	OU-DST PURSE	5.00
Computational analysis of grooved casing in a centrifugal compressor	Investigator: Dr P Ushasri	AICTE	10.16
Consultancy by (CPTIP) Center	Director: Prof. Sriram Venkatesh Dr.L Siva Rama Krishna	M/s.Analogics Tech India ltd, Transcend India Pvt.Ltd., BioGenex	5.00



Funds allocated under TEQIP II			
An approach to minimise build errors and improve quality of prototypes in SLS additive manufacturing	Prof Sriram Venkatesh	TEQIP-II	1.0 Lakh
Estimation of geometric dimensional deviation of constructed free form surfaces from machined free form surface	Dr R Rajendra	TEQIP-II	0.85lakh
Design and Manufacturing of scaffolds for Biomedical application using additive manufacturing	Dr L Siva Rama Krishna	TEQIP-II	0.85lakh
EEG signal based non invasive brain machine interface to control a two degree freedom RR type of planar robot arm	Mr E Madhusudan Raju	TEQIP-II	1.0 Lakh
Processing & characterisation of porous Zirconia ceramics by gel casting	Mrs.T Nagaveni	TEQIP-II	1.0 Lakh

Infrastructure:

Equipment Purchased in the last Academic year:

1. SMC based Hydraulic Trainer Kit Under TEQIP-PHASE II
2. 8051 Microcontroller Hard ware with interfaces Under TEQIP-II
3. Solid works 2016 software with 50 network licenses Under TEQIP-II
4. 2 stroke petrol engine testing kit Under TEQIP- II
5. Flash Forge Finder (FDM) machine under TEQIP-II

6. Achievements:

7. Department organized two day workshop on "**Non Destructive Techniques**" during 22-23 April, 2016 in Dept. of Mechanical Engineering University, College of Engineering, Osmania University, Hyderabad. Organising secretary was Prof A Krishnaiah and coordinator of the event was Dr K Buschaiah.

Guest Lectures:

- Financial management from the perspective of engineers, by Anatha swamy senior manager (finance) qualcomm company pvt ltd on 22nd Feb 2016



Faculty Achievements

Prof A Krishnaiah

- President of India Nominee for Pondicherry University, appointed by Ministry of HRD, Govt. of India.

Prof P Laxminarayana:

- **Technical Expert Member**, Telangana State Council for Higher Education (TSCHE), Govt. of Telangana State
- One research scholar was awarded PhD from Osmania University
- **Member**, Assessment of DRDO, India employs as a *External Expert (2015)*

Prof. Sriram Venkatesh

1. Acted as Regional Coordinator for conducting Police Recruitment Board

Mr.V.Uma Maheshwar

1. **Joint Secretary, Alumni Association of University College of Engineering, Osmania University** during the First ever elections held for the new Executive Committee on September 27, 2015.
2. As the Faculty Advisor, guided **six different Teams of College students** in Design, Fabrication and Testing of Go Kart Vehicles for participation in Several National Go Kart Championships organised during academic year 2015-16.
3. Go Kart Vehicle named **“Tornado”** for participation in National Go Kart Championships organised by Atlier Motors
4. First ever All Girls Go Kart Team **ATHENA** for International Series of Karting
5. Go Kart Vehicle named **“Asphalt ”** for participation in International Series of Kart Championship organised by ISK at Hyderabad
6. Go Kart Vehicle named **“Asphalt Ver 2”** for participation in All India Go Kart Racing event called Trinity Karting Trophy Championship hosted by KJ's Educational Institutes, Kondhwa Annexe, Pune
7. Guiding a team of 10 students of the College for **SAE Efficycle 2016** event.
8. Guiding a team of 25 students participating in all terrain vehicle race with their vehicle DIRTRIDER at **SAE BAJA 2017** Event.
9. Invited to **represent Telangana State** by a National Level Charitable Organization “Citizen Force Foundation For Citizens” referred to as Citizen Force, to address at the CONVENTION for the Constitution of Governing Councils for the States of TELANGANA, ANDHRA PRADESH, CHHATTISGARH & ODISHA on 2nd October,



2015, Mahatma Gandhi Jayanthi day at Palm Beach Hotel, Visakhapatnam

10. **Managing Committee Members of SAE India -Hyderabad Chapter** in May 2016.

Dr P Ramesh Babu

- Appointed as Co-Convener TSPGECET-2016,
- Appointed as Member of Research Council, DRDL, Hyderabad

Dr. Narsimhulu Sanke

- Recognition of **Ph.D. Supervisor** in the Faculty of Engineering, Osmania University, Hyderabad.
- Appointed as Addl. Controller of Enamination (EDP), O.U

Dr K Saraswathamma

- Co-ordinator for a one day workshop on “Women for Excellence (WE 2016) “ held on 9th March 2016 at UCE, OU.

Dr. L Siva Rama Krishna

- Reviewer of Journal of The Institution of Engineers (India): Series C published by Springer.

Mr G Narender

- Department convener for PTPG Admissions, 2016
- Submitted his PhD thesis under the guidance of Prof A Krishnaiah entitled “ **Experimental investigation on the performance of Natural circulation loop with nano fluids**” to the Osmania University

Workshops/ Seminars/ Training Programmes organized by Faculty

Prof A Krishnaiah, Director, EDC,OU

- Entrepreneurship Development Programme was organized in EDC, OU from Jan 19-21, 2016 at CVR college
- Entrepreneurship Development Programme was organized in EDC, OU from Feb 22nd –to 24th, 2016 at CVSR college
- Entrepreneurship Development Programme was organized in EDC, OU from March 28th -30th, 2016 at RGKIT, Basara.

**Mr.V.Uma Maheshwar**

- **Faculty Advisor for 14th National level Technical Symposium MECHARENA 2016** organized by the Dept. of Mechanical Engineering during March 04-05,2016.
- Coordinator for **Traditional day called Samskruti 2016** organized by the College on April 16, 2016. The traditional day was organised to mark the end of routine academic work of Academic year 2015-16 with a traditional touch.
- organised a 5 days Placement Training Workshop called **Samanvaya** for Pre-final Year Students of M.E./M. Tech, MCA & BE Courses of OUCE during March 29-April 05,2016
- coordinated in collaboration with CELT, OU a Softskills Workshop (6 weeks part time training course) on “Communication and Soft skills” for Pre-final Year Students of BE Courses of OUCE during March -April, 2016 .
- nominated by Society of Automotive Engineers-India as **THE CHAMPION** of the **Two Day BAJA SAEINDIA 2016 MEGA WORKSHOP** organised at OUCE during October 03-04, 2015.
- Coordinator for **College Level Alumni and Industry Meet on SWOT Analysis** held on March 05, 2016.
- Core Organising Committee in the conduct of **General Body meeting of Alumni Association, UCE, OU** on August 22, 2015.
- Joint Secretary of Alumni Association has organised the First ever Corporate kind of Mega event of Alumni Association “**Global Alumni Meet**” on December 27, 2015 .
- Coordinated **One day Training Workshop for Training & Placement Officers** organised by Association of Networking of Training and Placement Officers (NATPO) held at University College of Engineering, Osmania University, Hyderabad on June 11, 2016.
- Coordinator for the Telangana’s second State Level “Energy Conservation Day” where students from Engineering Colleges across Telangana.The event was sponsored by MNRE, Govt. of India through NREDCAP, AP.

Dr Narsimhulu Sanke, Student Advisor, UCE,OU,

- Organizing Secretary of “**Quizzotic-2016**” conducted quiz finals comprises a spectrum of areas encompassing the latest developments both technical and non-technical arena.
- Organizing Secretary of “**FreeStyle-2016**” (for BE First years) one day Programme conducted at University College of Engineering.



Guest Lectures Delivered by the Faculty

Faculty	No.of Guest Lectures delivered
Prof. P.Laxminarayana	02
Prof. Sriram Venkatesh	07
Mr. V.Uma Maheshwar	03
Dr P Ramesh Babu:	01
Dr K Saraswathamma	01
Dr. L Siva Rama Krishna	02
Mr G Venkateshwarlu	01

Student Achievements (2015-16):

1. Mr N Yadaiah stood state first in TSGENCO and TSPSC recruitment tests held by Telengana govt in 2015-16
2. More than 60 students from BE/ME courses were selected for TSGENCO and TSPSC recruitment test held by Telengana Government in 2015-16
3. A team consisting of 25 girls from 2nd/3rd/4th year girl students formed as a group and participated in International Series of Karting (ISK) wherein the participants were required to design, analyse and fabricate a 4 wheel Highspeed Gokart Vehicle **ATHENA** and raced in the event scheduled at Hyderabad during March 08-11, 2016. The Team went upto finals and stood among the Top 6 Teams in the Championship winning a **Special Appreciation Award called as EMPOWERED WOMEN of International Series of Karting.**
4. A Team of 25 College students Designed, Fabricated, Tested their Go Kart Vehicle named **“OU Tornado”** for participation in National Go Kart Championships organised by Atlier Motors during Oct 28-30, 2015. The team stood 6th in overall positions.
5. A Team of 25 College Boy students participated in International Series of Kart Championship organised by ISK at Hyderabad during March 08-11, 2016 where in they Designed, Fabricated and Tested their Go Kart Vehicle named **“Asphalt ”**.
6. A Team of 25 College Boy students participated in All India Go Kart Racing event called Trinity Karting Trophy Championship hosted by KJ's Educational Institutes, Kondhwa Annexe, Pune during March 17-20, 2016 where in they Designed, Fabricated and Tested their Go Kart Vehicle named **“Asphalt ver 2 ” won Second Runner up Prize of Rs. One Lakh.**
7. Two students are selected for externship program offered by M/s. Boeing, USA and have to work at M/s. Infotech, Hyderabad. The stipend



is Rs. 20,000/ per month. This offer is in line with IIT Kharagpur students.

8. Repalli Rajasekhar is selected in IES exams
9. Two students of ME (CAD/CAM) Ms. Mounika Katta and Mr Anup Patil were selected for internship program offered by M/s. John Deere, USA.
10. Industrial visit to BHEL Ramachandrapuram on 27.08.2015 for B.E. ¾ I sem. 62 students visited

MECHARENA 2016:

Department conducted 14th Student national technical Symposium “**MECHARENA 2016**” During 3rd -4th of March 2016. The faculty advisor for the event was **Mr. V Uma Maheshwar** and **Mr Jabbar** was the student convener and Priyanka and G Saikiran were co convenors. The event like Treasure Hunt, Sarvatra, Monster Track, Impetus, Stipendium, Paper Presentations, cultural events, spot events, Workshops were part of the **Mecharena-2016** apart from Paper presentations and stipendium. More than 300 students registered for various events.

Placements:

The Placement record of the department for the year 2015-16 is as given below

No. of B.E. students applied for placements:	60
No of Job offers to B.E Students:	114
No. of Job offers to M.E students:	16
No. of Students opted Higher studies	01

Top GRE/CAT scores by the students:

S.No.	Student Name	GRE Score	Year
1	Srinivas	98 percentile	CAT-2016, Admission in IIM Kashipur, Uttarakhand

Research Publications/Presentations by the Faculty:

Faculty	No. of Publications in International/ National Journals	No of Presentations in International /National Conferences
Prof. A.Krishnaiah	10	06
Prof. P Laxminarayana	04	04
Prof. Sriram Venkatesh	03	04



Prof. P.Usha Sri	17	01
Mr. K Mohana Murali	--	01
Mr. V Nageswara Rao	01	01
Dr. M.Chandra Sekhar Reddy	02	--
Dr. P.Ramesh Babu	03	02
Dr. K. Saraswathamma	01	01
Dr. Narsimhulu Sanke	03	--
Dr. L Siva Rama Krishna	05	01
Mr. G Narendar	03	--
Dr.B.Hadya	02	--
Mr.E.Madhusudan Raju	01	01
Mrs T.Nagaveni	01	01
Mr G Venkateshwarlu	01	--
Mr K Venkateshwarlu	--	01
Mr. U Ashok kumar	--	02
TOTAL	57	26

Prof A Krishnaiah:

- Design of Roll Bond Evaporator for Room Air Conditioner, International Journal of Engineering Research & Technology (IJERT), Vol. 4 Issue 11, (2015), 315-320.
- Evaluation Of Inside Heat Transfer Coefficient of Roll Bond Evaporator for Room Air Conditioner, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 5, (2015), 3378-3384.
- A Practical Approach to Eliminate Defects in Gravity Die Cast Al-Alloy Casting Using Simulation Software, International Journal of Research in Engineering and Technology, Volume: 04 Issue: 01, (2015)
- Experimental Investigations on Kerf width and Material Removal Rate in Wire Electric Discharge Machining of Titanium Alloy, International Journal of Emerging Research in Management & Technology (IJERMT), Vol. 4, Issue 11, 2015.
- Effect of Composition of Sand Mold on Mechanical Properties and Density of Al-Alloy Casting Using Taguchi Design Approach, International Journal of Engineering Research and Application, ISSN: 2248-9622, Vol. 5, Issue 3, (2015), pp.37-41.
- Influence of Sand Molding Process Parameters on Product Quality of Al-Si Alloy Casting-An Anova Approach, Published in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), Vol. 4, Special Issue (01), (2015), pp. 1751-1760.



- Experimental Investigations on Kerf width and Material Removal Rate in Wire Electric Discharge Machining of Titanium Alloy”, International Journal of Emerging Research in Management & Technology (IJERMT), ISSN No. : 2278 – 9359, Vol. 4, Issue 11, 2015.
- Experimental investigation on Transient State Performance of Natural Circulation Loop. In International Journal of Engineering Research & Technology, 2016. 5(6): p.15-18.
- Investigation on Natural Circulation Loop with Nanofluid. Int. Journal of Engineering Research and Application, 2016. 6(3): p.53- 58.
- Experimental investigation on the preparation and applications of Nanofluids, at 4th international conference on Materials processing and characterisation 12th -13th March 2016.(ID No. 1727) Proceedings will be published in Elsevier Journal “Materials Today: Proceedings” and will be available in www.sciencedirect.com.

Prof P Laxmi Narayana

- Design and Analysis of Welded Joints of Pressure Vessel, International Journal of Engineering and Science Research (IJESR) ISSN 2277-2685; 2015, Vol-5, Issue-5, pp. 341-346.
- The Effects of SiC Particle Addition as Reinforcement in the weld Zone during Friction Stir Welding of Magnesium Alloy AZ31B, IRA-International Journal of Technology & Engineering ISSN 2455-4480; Vol.03, Issue 03 (2016)pp 154-163.
- Experimental Investigation on Sic and Al₂O₃ Reinforced Friction Stir Welded Joint of Aluminium Alloy 6061, Journal of Manufacturing Engineering, June, 2016, Vol. 11, Issue. 2, pp 101-106.

Prof Sriram Venkatesh:

- Inkjet Printing of Yttria Stabilised Zirconia Nano Particles on Metal Substrates, International Journal of Precision Engineering and Manufacturing, Vol.16, No. 12, November, 2015, ISSN 2234-7593 (Print), pp2553-2561
- Influences of Submerged Arc Welding Process Parameters on Bead Geometry of low carbon alloy Steel; International Journal on Mechanical Engineering and Robotics (IJMER); ISSN (Print) : 2321-5747, Volume-4, Issue-3,2016;pp 43-50.
- Performance Evaluation of Various STL File Mesh Refining Algorithms Applied for FDM-RP Process; Journal of Institution of India; published by Springer, DOI 10.1007/s40032-016-0303-4; June 2016.

**Prof P Usha Sri:**

- Transition Temperature behavior in Pan Based Composite Materials with and without SIC Filler, International Journal of Mechanical and Industrial Technology, Vol. 3, issue 2, pp: 1-6, October 2015.
- Magneto Static Analysis of Magneto Rheological Fluid Clutch, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Volume 13, Issue 3 Ver. V May 2016, PP 35-42.
- Control Of Pollution Levels of Four Stroke Spark Ignition Engine Fuelled With Methanol Blended Gasoline, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 5, Issue 4, April 2016.
- Control of Aldehydes with Copper Coated Four Stroke Spark Ignition Engine with Methanol Blended Gasoline with SCR Technique, International Journal of Current Engineering and Technology, Vol.6, No.3, June 2016.
- Effect of spark igni tion timing on copper coated spark ignition engine with alcohol blended gasoline with catalytic converter, Proceedings of the ASME 2015 International Mechanical Engineering Congress and ExpositionMECE2015November 13–19, 2015, Houston, Texas, USA
- Influence of injection timing on performance parameters of high grade semi adiabatic diesel engine with cotton seed, JMIEVolume 6, Issue 4, ISSN: 2249-0558, April-2016
- Influence of injection timing on performance parame ters and combustion characteristics of high grade semi adiabatic diesel, TJPRC, Vol. 6, Issue 2, ISSN(P): 2277-4785; ISSN(E): 2278-9413 Apr 2016, 1-14.
- Influence of preheating on performance parameters and combustion characteristics of high grade semi adiabatic diesel engine with cottonseed biodiesel, IJREAS VOLUME 6, ISSUE 3(March,2016), (impact factor –6.573)
- Effect of Injection Pressure and Timing on Performance Parameters and Exhaust Emissions of High Grade Semi Adiabatic Diesel Engine with Cotton Seed Biodiesel, International Journal of Innovative Research in Science, Engineering and Technology ,Vol. 5, Issue 3, March 2016
- Impact of Injection Pressure on Performance Parameters of High Grade Semi Adiabatic Diesel Engine with Cotton Seed Biodiesel, International Journal of Thermal Technologies, Vol.6, No.1 (March 2016)
- Experimental investigations on performance parameters of high grade semi adiabatic diesel engine with cotton seed biodiesel, International



Journal of Mechanical Engineering and Technology (IJMET) Volume 7, Issue 1, Jan-Feb 2016, pp. 42-57,

- Experimental investigations on exhaust emissions of high grade semi adiabatic diesel engine fuelled with cotton seed biodiesel, International Journal of Scientific & Engineering Research, Volume 7, Issue 1, January-2016 604 ISSN 2229-5518
- Effect of Injection Pressure On Performance Parameters And Combustion Characteristics Of High Grade Low Heat Rejection Diesel Engine With Preheated Cotton Seed Biodiesel, International Journal of Application or Innovation in Engineering & Management (IJAIEM) Volume 5, Issue 1, January 2016. ISSN 2319 – 4847
- Effect of injection pressure on performance parameters and combustion characteristics of high grade semi adiabatic diesel engine with cotton seed biodiesel, International Journal of Automobile Engineering and Engineering (IJAUE) Volume 3, Issue 1, Jan-June 2016, pp. 01-15,
- Studies on Influence of Injection Pressure on Performance Parameters of Diesel Engine with High Grade Insulated Combustion Chamber with Crude Jatropa Oil Operation, International Journal of Current Engineering and Technology, Vol.5, No.4, Aug 2015.
- Experimental investigations on direct injection diesel engine with ceramic coated combustion chamber with carbureted alcohols and crude jatropa oil, 2015 Elsevier, Renewable and Sustainable Energy Reviews 53 (2016) 606–628.
- Influence of Injection Timing on Exhaust Emissions and Combustion Characteristics of Low Heat Rejection Diesel Engine with Air Gap Insulation, International Journal of Current Engineering and Technology, Vol.5, No.5, Oct 2015.

Dr. M Chandrasekhar Reddy:

- Thermal Stress Analysis of a ball bearing by FEM, International Journal of Advanced research in engineering and technology, 6, pp.80-90, (2015).
- Design and Analysis of steam turbine rotor, International Journal of mechanical engineering and technology, 6, pp.195-201, (2015).

Dr P Ramesh Babu:

- Volume of Material removal on distortion in machining thin wall thin floor components in International Journal of Mechanical Engineering and Applications, Aug, 2015
- *Effect of a milling cutter diameter on distortion due to the machining of thin wall thin floor components in Advances in Production Engineering and Management, Sep 2015*



- A Theoretical and Experimental Study of Flow Induced Pipe Vibrations with Guided end conditions, Hydrocarbon Processing Journal, Jan 2016

Dr.Narsimhulu Sanke:

- Heat Transfer Analysis of a Riser Tube in a Flat Plate Collector with Fins, International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR), ISSN 2348-4845, Volume No:2, Issue No:7 (July 2015), pp 163-167.
- CFD Analysis of Winglets for Horizontal Axis Wind Turbine, International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR), ISSN 2348-4845, Volume No:2, Issue No:7 (July 2015), pp 174-179.
- Efficiency Estimation of the Turbocharger Compressor Wheel, International Journal of Scientific & Engineering Research (IJSER), ISSN 2229-5518, Volume 6, Issue 8 (August-2015), pp 195-198.

Dr. Saraswathamma

- Design of Parallel Plate Magnetorheometer for evaluation Rheological properties of Magnetorheological polishing fluid, Materials Today: Proceedings 2 (2015) 3251 – 3259.

Dr L Siva Rama Krishna:

- Design Optimization of a Nanosatellite Structure and Prototype Manufacturing Using FDM Rapid Prototyping Process, published in the National Conference on “Large Scale Multi-disciplinary Systems of National Significance – Trends and Challenges” (LAMSYS-2016) organized by SDSC SHAR, ISRO, Sriharikota & ISSE Sriharikota & Chennai Chapter during 24-25, June 2016
- Performance Evaluation of Various STL File Mesh Refining Algorithms Applied for FDM-RP Process published by Springer in the Journal of The Institution of Engineers (India): Series C- Mechanical, Production, Aerospace and Marine Engineering, ISSN 2250-0545, DOI 10.1007/s40032-016-0303-4, June 2016.
- A Review On The Effect Of Various Process Parameters In Cold Metal Transfer Welding (CMT) published in the International Journal of Engineering Research, Volume No.5 Issue Special 2, pp: 432-435, SSN:2319-6890(online),2347-5013(print), 11-12 Feb. 2016.
- With **E Madhusudan Raju** and **V Nageswara Rao**, Effect of Link Flexibility on tip position of a single link robotic arm, Published in Journal of Physics: Conference Series, Volume 662, (2015) 012020, doi:10.1088/1742-6596/662/1/012020.
- Topology optimization using solid isotropic material with penalization



technique for additive manufacturing , 5th International Conference of Materials Processing and Characterization (ICMPC 2016) organised by Department of Mechanical Engineering, GRIET, Hyderabad held during 12-13, March, 2016.

Dr. B.d Hadya

- Performance Assessment of HFC Group Refrigerants in Window Air Conditioning System”, International Journal of Mechanical Engineering and Applications (IJMEA) ISSN 2330-0248, Vol 3, issue 5,pp;81-85, Science Publishing Group, USA, August 2015.
- Simulation of air- conditioning system components and comparison of performance for three different refrigerants, International Journal of Research in Engineering and Applied Sciences IJREAS VOLUME 6, ISSUE 6 (June, 2016) (ISSN 2249-3905)

Mr. G. Narender

- Experimental investigation on Transient State Performance of Natural Circulation Loop. In International Journal of Engineering Research & Technology, 2016. 5(6): p.15-18.
- Investigation on Natural Circulation Loop with Nanofluid. Int. Journal of Engineering Research and Application, 2016. 6(3): p.53- 58.
- Experimental investigation on the preparation and applications of Nanofluids, at 4th international conference on Materials processing and characterisation 12th -13th March 2016.(ID No. 1727) Proceedings will be published in Elsevier Journal “Materials Today: Proceedings” and will be available in www.sciencedirect.com.

Mrs.T Nagaveni

- Preparation and characterization of Si₃N₄-BN ceramic composites by Gelcasting”, Material Science Research India, 13 (1) pp28-33, June 2016. DOI: [10.13005/msri/130105](https://doi.org/10.13005/msri/130105)

Mr. G Venkateshwarlu:

- Evaluation of Mechanical Properties of AL Alloy 6061 in Ist International Conference on advances in Mechanical Sciences (ICAMS 2016)

FUTURE PLANS

1. To establish research center in Nano technology
2. To start new P.G. course in Design of Mechanical Systems and Mechatronics





Principal and others with 2nd runner up trophy won at trinity karting race



Faculty Advisor with all girls team ATHENA, who won award EMPOWERED WOMEN of International Series of Karting



Variable Compression Engine test rig



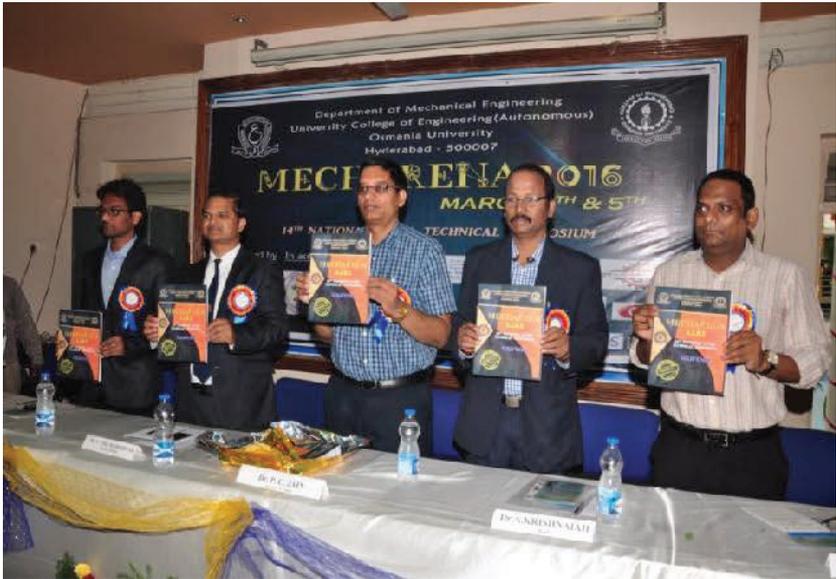
Twin cylinder 4 stroke diesel engine test rig



Multi cylinder 4 stroke petrol engine test rig



Air Compressor Test Rig



Unveiling of Mecharena 2016 Souvenir



Inauguration of workshop on NDT



DEPARTMENT OF MATHEMATICS

Ph.No: 040 – 27682208

INTRODUCTION:

The Department of Mathematics has been integral part of the University College of Engineering since its inception in the year 1929. Mathematics is a basic analytical tool in all engineering subjects. The syllabus is designed so as to cater the needs of all engineering departments, both at undergraduate and postgraduate levels.

FACULTY	RESEARCH SPECIALIZATION
Assistant Professor and Head	
Dr.V.Naga Raju M.Sc., Ph.D.	Real Analysis
Assistant Professors	
Dr.V.Kiran M.Sc., M.Phil., Ph.D.	Real Analysis, Harmonic Analysis
Dr.Y.Rameshwar M.Sc., M.Phil., Ph.D.	Hydrodynamics and Hydromagnetic Stability, Ferrohydrodynamics Convection, Nonlinear Dynamical Systems, Perturbation Methods
Dr. B. Bala Swamy M.Sc, Ph.D.	Fluid Dynamics
Assistant Professors (Contract)	
Dr. P. Thirupathi M.Sc., B.Ed., Ph.D.	Fourier Optics
Mr. Rama Lingaiah Kadari M.Sc., B.Ed, M.Phil.	Fluid Mechanics

Educational Programmes:

The Department offers four Mathematics papers to the students of all branches of engineering at U.G. level to provide sufficient background for better understanding of engineering subjects. The Department also offers Mathematics papers at P.G.level for M.E students. Keeping in view the changing needs of educational standards, the department reviews and revises the syllabus every four years.

Research Activities:

The staff members of the Department are actively engaged in research in the areas of Real Analysis, Harmonic analysis, Hydrodynamics and Hydromagnetic Stability, Ferrohydrodynamics convection, Nonlinear



Dynamical systems, Perturbation methods, Fourier Optics and Fluid Mechanics. Some of the Staff members have published research papers in well-reputed International/National Journals, presented research papers and had given keynote addresses and invited talks in National conferences and seminars. The Department invites eminent Mathematicians to deliver guest lectures for the benefit of staff members and students. The Department of Mathematics is equipped with 5 computers with internet connection

Publications:

Faculty	Published in International/National Journals	Presented in International/National Conferences
Dr. V.Kiran	2	-

Work shops/Seminars/Training Programmes/FDP attended by Faculty

Dr.Y.Rameshwar:

Invited Talk:

- Acted as resource person for two sessions for the three day training programme for Junior Lecturers of Mathematics on 05.12.2015 and 15.12.2015, at Professor Jayashankar Institute of Telangana, Intermediate Staff Training academy, Hyderabad.
- Delivered invited talk entitled “ Dynamical Systems” in STTP on contemporary approaches of Applied Mathematics in Science and Engineering, at Dept.of Mathematics, NITW from 11-15, May 2015.
- Delivered invited talk on “ Introduction to Computational Fluid Dynamics” on March 22, 2016, at Academic Staff College, Osmania University.

Paper Presentation:

Presented a research paper on “ Role of ICP in rural girls education” in Two day national conference on women in higher education, perspectives and challenges in digital era at NITW, during 30-31 May, 2016.

Participation in Conferences/Workshops:

- Participated in the 7th IEEE international conference on “ Technology for Education”, organised by NITW, during 10-12, Dec,2015.
- Participated in the 10 day GIAN course on “ Designing and developing flipped class room, e-learning instruction for Engineering and Science education”, organised by centre for education technology, NITW, during 9– 18 May, 2016.

**Dr.Y. Rameshwar is guiding**

- Anuradha, Topic: Convection in a binary ferrofluid (Ongoing).
- M.A. Rawoof Sayeed, Topic: Mean flow effect in Rayleigh-Bernard and thermohaline convection (**Ongoing**).

Library:

The Department is having a Library with good number of books for the use of faculty and research scholars.

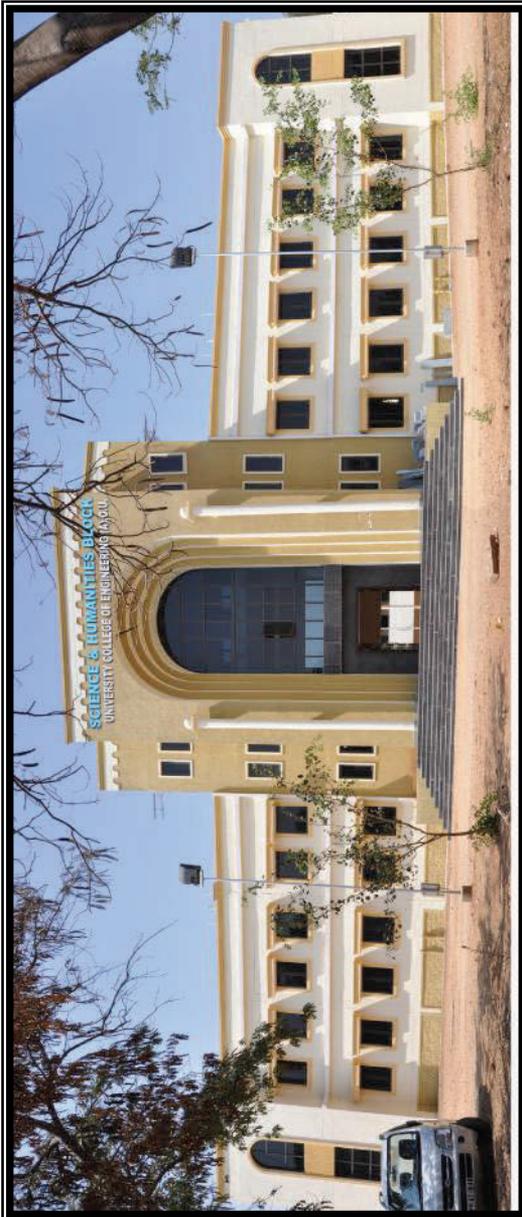
Staff members are frequently attending conferences, seminars and workshops through out the academic year and presenting papers, giving invited talks etc.

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DEPARTMENT OF PHYSICS





DEPARTMENT OF PHYSICS

Phone No. 040 - 27682378

Profile:

The Department of Physics in University College of Engineering was established in the year 1929. In the beginning the classes were conducted in the premises of University College of Science in O.U.campus. In 1963 the Department was shifted to the University College of Engineering, O.U. Recently (Feb. 2012) It has been shifted to the newly constructed Science and Humanities Block of the college.

The ancient Greek Philosopher as well as teacher, Plato has quoted, "If a student is to learn effectively, the class room and surroundings should be pleasant". In tune with this quotation the premises of Science and Humanities Block has been made more pleasant by providing all the infrastructure facilities both in the class rooms and laboratories, so that the learning and imparting of knowledge becomes effective and efficient. Recently the building is equipped with 20 KVA Generator in order to cope up with the power disturbances.

To keep pace with current developments the department has been constantly revising the contents of the theory and practical (laboratory) syllabi and recently new topics like Thin films, Spectroscopy and Nanomaterials were introduced. In the laboratory, which consists of General Physics and Optics experiments, a system of continuous assessment has been introduced with the faculty spending all the time discussing various aspects of experiments with students. Latest experiments like Solar Cell, Hall Effect, Laser, Fiber Optics, Dielectric Constant, Michelson Interferometer, Photo Cell and Electrical conductivity of semiconductors (Four probe method) were introduced.

To reinforce what they had learnt and also to teach them better communication skills, it is made mandatory for each student to give two seminars on laboratory experiments in a year. The students are required to submit assignments, which are designed to inculcate the habit of critical thinking in them. Extension lectures on different emerging areas, such as Nanomaterials, are being arranged by eminent Scientists from ICT, ARCI, Hyderabad, etc. for the benefit of both teachers and students.

The Department is also offering solid state physics as an elective for the B.E ³/₄,II-Semester of Mechanical Engineering.

Research Facilities

The Department has an exclusive research lab consisting of following equipment: 1) X-Ray Diffractometer 2) Polarizing Microscope 3) Atomic Absorption Spectrometer 4) DC Electrical Conductivity setup 5) Hydraulic Press and 6) LCR Meter.

**Faculty details:**

<i>Faculty member</i>	<i>Specialization and Area of Research</i>
Dr. S.Narender Reddy, M.Sc., Ph.D, Associate Professor and Head	<i>Solid State Physics Solid State Ionics/Solid Electrolytes</i>
Dr. N.Narsimlu, M.Sc., Ph.D Assistant Professor	<i>Polymers, Neutron scattering and Nano composites</i>

In addition, the department is also engaging the services of the following Assistant Professors on contract basis.

<i>Faculty member</i>	<i>Specialization</i>
Mrs. R.Swarna Latha, M.Sc (Ph.D)	<i>Opto Electronics</i>
Mr. K.Krishna Murthy Goud, M.Sc, (Ph.D)	<i>Electronics & Communication</i>
Dr. B.Ashok, M.Sc, Ph.D	<i>Electronics & Communication</i>

Research Activities

The faculty members are actively engaged in research work and publishing research papers in national and International Journals. The faculty members of this department have so far published about 80 research papers in various national and international Journals. The present faculty members have full quota of research scholars working with them.

One of the Assistant Professor on contract Mr. B.Ashok was awarded Ph.D during last academic year. One of the research scholar, Mr. T.Vijay Kumar, has been awarded Ph.D under the supervision of Dr.S.Narender Reddy from the Department.



DEPARTMENT OF CHEMISTRY

Phone No.: 040-27682381

Profile

The Department of Chemistry was established in the College of Engineering way back in 1961, to cater the needs of the students of Civil and Mechanical Engineering the oldest branches of Engineering in the field of Engineering Chemistry. In course of time, with addition of more branches to Engineering and the rapid development of the Material Science the scope and the role played by Chemistry has widened and increased. The Subject has come to stay as an essential part of Engineering Curriculum for all the branches of Engineering. The Department has purchased Atomic Absorption Spectroscopy under TEQIP Phase I.

Faculty Details

Faculty	Areas of Teaching and Research
Prof. A.Panasa Reddy, M.Sc., Ph.D. Head	Physical Chemistry, Solid State Electrochemistry and Corrosion Science
Assistant Professors (contract)	
Mrs. V. Vani, Mrs. G. Sujata, Mrs. V. Sreedevi, Mrs. P. Reshma	

Research Activities

The faculty members, apart from their regular teaching, are also carrying out the research work and publishing regularly in national and international journals. The faculty members have published about 35 research papers. Prof. A. Panasa Reddy is actively involved in guiding Research work leading to Ph.D in the field of Solid State Electrochemistry.

Prof. A. Panasa Reddy has produced 30 publications in the field of Anodic Oxidation of Valve metals in the National and International Journals to his credit and presently eight scholars are pursuing their Ph.D programme under his supervision. Three of his students awarded Ph.D's degrees under his guidance.

Laboratories of Dept: 3 laboratories: Chemistry Lab-I, Chemistry Lab-II and one Research Lab.

Infrastructure:

The Department is having UV-Visible spectrophotometer, Atomic Absorption Spectrometer and four computers with printers. The Department also having seminar Library containing good number of reference books for the teaching staff related to Engineering Chemistry, Physical Chemistry, Organic Chemistry, Analytical Chemistry, Environmental Chemistry and Inorganic Chemistry

Guest Lecturers delivered by Faculty: Prof. A. Panasa Reddy has delivered a popular lecture on Composite materials and Conducting Polymers at Vasavi College of Engineering, Hyderabad in the month of March 2016.



DEPARTMENT OF ENGLISH

Phone: 040-27682201.

Profile

English is an integral part of the Engineering curriculum. It serves as a bridge between the students' years of formal study before joining Engineering and the professional life during and after Engineering that requires them to use English on a daily basis.

Objectives:

- To improve the student's fluency and accuracy in English as much as possible during the period of instruction
- To develop the student's ability to hone their existing skills by using effective communication strategies throughout the instruction
- To provide an orientation to reach the expectation of the university, the college and the faculty both inside and outside of the classroom
- To prepare students to become more confident and active participants in all aspects of their undergraduate programs

Faculty

Mr. C. Venkata Subba Rao M.A., PGDTE (ELT) Head & Assistant Professor. English Language Teaching (ELT)	Communication Skills, Soft Skills Training.
Dr. J. Savithri M.A., PGDELTA., Ph.D. English Language Teaching (ELT) Assistant Professor.	ESL Studies Learner Strategies

The faculty of English is highly skilled in motivating and inspiring language students. Using tried and tested methods; our faculty helps the students to achieve their potential during the course.

Research Activities

Dr. J.Savithri is guiding 8 Ph.D. scholars.



Laboratories of the Department

The Department is equipped with excellent learning facilities including a well-resourced computer aided multimedia language laboratory. In the language laboratory, the students are not only given training in conversational English with emphasis on current usage in natural situations for both academic and everyday usage of English but also in elements of English pronunciation like basic sounds, stress, intonation and rhythm patterns, which are very important to natural-sounding speech. It also includes training and practice in the presentation of prepared academic talks. The focus is not only on fluency but also on clear as well as effective communication. The course also helps students to participate actively and effectively in group meetings, academic discussions, seminars, conferences etc.

Infrastructure

Software

- Sky Pronunciation
- Tense Buster
- Connected Speech
- Ease 1, Ease 2
- Letter, faxes and e-mails
- CALD
- EPD

Hardware

- Computer-aided Multimedia Language Laboratory with 40 computers
- Communication Lab with LCD/Screen Projector
- Audio and Video Learning Resources.

Library facilities

- Reference books/Text books - 950

Achievements

- Dr. J. Savithri presented papers at the University of Warwick, UK and visited Germany, Switzerland, France on invitations.

Publications:

Mr. C. Venkata Subba Rao contributed a lesson which is included on “Skills in English” for the O.U. Degree students.

**ARTICLES PUBLISHED**

- Dr. J. Savithri published an article titled ‘ The Effect of Culture - Specific Syllabus on English Language Learners in Engineering Colleges’ published in language in India, Vol. 16:1 January 2016, ISSN 1930-2940.
- Dr. J. Savithri published an article titled ‘An Investigation into the use of Memory Strategies in Learning Vocabulary’ in the journal published by the Department of English, Osmania University under SAP DRS - I 2014.

BOOKS EDITED:

Dr. J. Savithri published 20 books in total with various multinational publishers. The following are the books published in the year 2015-2016

- Teaching Communication Skills in English to Engineering and Technology Students: A Study in Learner Strategies’ published by the Department of English, Osmania University under SAP DRS - I 2014.
- Advanced Skills in English, Orient BlackSwan, 2014.
- OUCDE M.A (English) instruction material for Paper 1 (MACP) and Paper 1 (MACF) published by the Centre for Distance Education, OU in 2015 and 2016 respectively

Conferences/Workshops/Seminars/Guest Lectures Organized

- Every year, the Department of English conducts “Freestyle,” a one day event which is instrumental in perfecting the seminar and presentation skills of the I/IV B.E students. It is funded by CELT, UCE, OU.

Papers Presented

- Mr. C. Venkata Subba Rao attended a Refresher Course in English at Academic Staff College, OU from 09-03-2016 to 31.03.2016.
- Dr. J. Savithri presented a paper titled ‘A Study on the Problems of English Language Teaching in Government Secondary Schools’ in the ELT@I national conference held at S.V.University, Tirupati on 26th April 2014.
- Dr. J. Savithri presented a paper titled ‘A Study on the Perceptual Mismatches proposed by Kumaravadivelu in Postmethod Pedagogy’ at the international conference held at SRM University, Chennai, during 18th to 20th July, 2013.
- Dr. J. Savithri presented a paper titled ‘Innovative Methods in the Teaching of Writing Skills to the Secondary School Learners of English’ in the national conference held at BITS Pilani, Hyderabad campus during October 18th to 19th, 2013

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CENTER FOR ENGLISH LANGUAGE TRAINING (CELT)
Hyderabad - 500 007, Tel: 040- 64 575 575 / 2768 2354,
Mobile: 965 285 6107. www.osmania.ac.in/celt

Director: Dr.J.Savithri (MSc Psychology, MA English, PhD, PGDELT)

The Centre for English Language Training (CELT) was established in 1997 in the Department of English, University College of Engineering, Osmania University. It is a premier institution offering excellent training in English Language Skills, Communication Skills and Personality Development to professionals, students, job seekers and housewives. The Centre has conducted more than 320 batches of training so far.

The chief features of CELT include expert and dedicated facilitators, spacious classrooms with conducive ambience, infrastructure and a state-of-the-art Computer-assisted Language Laboratory. It also uses aids like video cameras and LCD projectors for imparting requisite skills and knowledge to its participants.

The methodology of teaching at the Centre is interactive and learner-centred. The facilitators keep the participants' needs in mind and use a wide variety of topics and activities in imparting requisite skills. The Centre is learner-friendly and interactive atmosphere helps the participants in achieving a clear, confident communication and a dynamic personality.

Certificate: Participants will be awarded a certificate on successful completion of the course.

Facilities

- State-of-the art language laboratory
- Spacious and well-equipped classrooms
- Movable furniture for various team activities
- Gadgets like Home Theatre and LCD projector

Language Laboratory

CELT has a well-equipped Language Laboratory, which helps learners to gain plenty of practice in Listening, Speaking, Reading and Writing. Lab sessions are an effective way of reinforcing the theoretical inputs learners gain in the sessions. The lab operates in an interactive way. The students are guided by the teachers, when they practise various aspects of the language on



the Desktop systems. The teacher can even monitor the students' work anytime he/she wishes to do so. This feature makes it convenient for both the teacher and the taught to speed up the process of learning.

Courses Offered

The Courses offered at the CELT aim at:

- Training participants improve their English language skills, refine their communication ability and fine-tune their personality
- Enabling the participants to express themselves clearly and confidently in various situations.
- Using a wide variety of approaches and activities to enable participants to achieve a clear communication and dynamic personality which is a prerequisite for personal and professional success in today's life.

The following are the Courses offered at the CELT:

i) A Course in English Communication Skills and Personality Development

Course Fee	: Rs.4000/-
Course Duration	: 2 Months (inclusive of all holidays)
Timings	: Morning batch: 6.00 am to 8.00 am Evening batch: 6.00 pm to 8.00 pm

ii) One Month Course in English Communication Skills and Personality Development for School Students (8th, 9th and 10th)

Course Fee	: Rs.2000/-
Course Duration	: 1 Month (inclusive of all holidays)

iii) One Month Bridge Course in English Communication Skills and Personality Development for Intermediate Students

Course Fee	: Rs.2000/-
Course Duration	: 1 Month (inclusive of all holidays)

The following are the course components of the above courses:

- Effective Communication
- Verbal and Nonverbal communication
- Listening and Pronunciation Skills
- Grammar and Vocabulary
- Debates and Group Discussions
- Presentation Skills



- Interpersonal Communication
- Public Speaking
- Writing Skills: Letters, Applications, Resume and E-mail Etiquette
- JAM sessions and Interview Skills
- Role-play
- Soft Skills
- Personality Development

iv) **A Certificate Course in English for Foreign Students (CCEFS)**

The course aims at helping and training the foreign participants to refine their grammar, vocabulary, communication skills and fine-tune their personality. As clear communication and dynamic personality have become prerequisites in this globalized world the foreign participants crave to learn English for personal and professional enrichment and would like to refine their skills which are prerequisites for success in today's fast paced life.

Students from different parts of the world apply in advance and join the course. Once, they successfully complete the course, they switch to their major. Thus, the course is helpful to most of the foreign students in pursuing their higher studies and preferred careers.

It is a ten month course. As a result, the participants can have enough time to improve their language and communication abilities. They are given certificates after the successful completion of the course.

Course Components

- Communicative English
- Listening
- Vocabulary
- Grammar
- Reading
- Writing

Duration: 10 months, 4 hrs a day, 5 days a week (Monday to Friday)

v) **A Three day Workshop for Teachers on 'Enhancing Professional and Instructional Skills'**

The course aims at improving the teaching skills of the teachers so as to perform better in their classrooms.



Course Components

- Communication and its importance
- Body Language
- Pronunciation and its importance in classroom
- Types of Communication
- Effective Teaching
- Time Management
- Stress Management
- Interpersonal Relations & Strokes
- Proactive Language
- Team Work
- Leadership
- Hard Work v/s Smart Work
- Mind Mapping
- Mnemonics

Facilitators

1. Dr. J. Savithri, MSc., M.A., Ph.D.
2. Mr. C. Venkata Subba Rao. M.A. (English)
3. Prof. A. Subba Rao, M.A., Ph.D
4. Dr. Lakshmi Mantha, M.A., Ph.D
5. Ms. P. Suma Bindu, M.A. English
6. Dr. Mrudula Lakkaraju, M.A., Ph.D
7. Ms. G.B. Kadambari Devi, M.A. (English)
8. Ms. Karuna Laishram, MA(English), MPhil.
9. Ms. R. Sarvani MA (PhD)
10. Mr. Arul Nehru MA (PhD)

Guest Faculty:

Mr. Yandamoori Veerendranath	Renowned Personality Development trainer
Dr. B. V. Pattabhiram	Renowned Psychologists & Personality Development trainer
Prof. E. Suresh Kumar	Renowned Communication Skills & Soft Skills trainer
Dr. V. Nagesh	Renowned Psychologists & Personality Development trainer
Mr. Y. Mallikarjuna Rao	Renowned Handwriting specialist
Mr. M. Nagaraju	Renowned Communication Skills and Soft Skills trainer
Dr. B.B. Chary	Renowned Communication Skills and Soft Skills trainer



DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education is providing facilities for indoor games viz., Table Tennis, Caroms and Chess. The College has developed a Sports Complex in which a multipurpose playing field has been developed behind the SBH, Engineering College Extension Counter to organize games and sports such as Cricket, Football and Athletics, besides creating facilities for Volley ball, Badminton Tennikoit, Ball Badminton etc., to our College students. The College has Basket Ball Court near the Hostels of the Sports Complex and Gymnasium Hall in the Main Building of the College. The Department selects players to represent College in the Inter-College Tournaments (Men and Women) organized by Osmania University in various disciplines and the required material, uniforms and refreshments are provided to participants.

Apart from fielding teams for participation in Inter College Tournaments, the Physical Education Department sends talented players to attend coaching camps conducted by the Dept. of Physical Education, Osmania University in various disciplines, from which selected players will be representing the Inter-University Tournaments.

A Sports Council co-ordinates activities and conducts sports, functions of the college. As part of the Annual Sports Day function the Physical Education Department conducts inter-faculty matches for Indoor and outdoor Games such as Cricket, Basketball, Ball badminton, Volley ball, Tennikoit and Athletics. These matches are organised separately for all the undergraduate and postgraduate students (Men & Women). Prizes and Certificates to the winners and runners-up in the inter faculty matches are distributed on the Annual Sports Day function.

Dr. B. Sunil Kumar

Associate Professor

Head, Dept. of Physical Education.

UCE, OU.

&

Secretary

ICT & Jt. Sec. IUT, OU.

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PLACEMENT AND TRAINING OFFICE, OUCE
Provides Careers for Graduating Students....not just jobs
(www.oucecareers.org)

Email id: ***ouce_placement@yahoo.com***
Phone Nos: ***091-040-27095190, 27682380***

Engineering Career is presently the most sought after Career as the World economy needs new avenues of Engineering applications which demands a huge Technical manpower. Osmania University Engineering College (OUCE) established in 1929 as the Sixth Engineering College in British India has been the torch bearer in supplying Quality Engineers/ Technocrats thereby contributing to the technology progression not just in India but the World over. The Alumni of the College are spread in all corners of the world winning accolades wherever they are.

Placement & Training Office, University College of Engineering, Osmania University provides a window of opportunities to the Students over a wide variety of Careers in a broad spectrum of Industries/Organisations in India and Abroad. It serves as a Single point of Contact for the Organisations on various Industry-Institute Initiatives. It offers career opportunities to the college students in premier private and public sector organizations apart from Internship Offers. The Placement Officer acts as single point of contact for all companies/ organizations interacting with the College on Placement and Training of Students. Faculty and Student Training Programmes are also organized in collaboration with industry experts. Most of the Companies (Core & I.T.) visit the college throughout the Final year of students' graduation for on campus recruitments.

Placement and Training Office is presided over by a Senior Faculty of the college with industrial experience. V Uma Maheshwar, Associate Professor of Mechanical Engineering with five years of Corporate R&D Industrial exposure and 19 Years of Academic expertise is presently heading the Placement and Training Office. The Placement Officer maintains liaison with various industries / Organizations and the institutions. These organizations are invited to the institution for Campus Recruitment Programme (CRP) so that the students get career offers before they graduate from the college. Prominent Organizations that have been visiting the college in recent years include Maruti Suzuki India Ltd, De Shaw & Co., ORACLE, Shoretel, Sales Force, Wells Fargo, FACTSET, Hero MotoCorp, ITC-Bhadrachalam, ITC-ABD, L&T Constructions, Honeywell, GE, Progressive Software, Hexagon Capability Center(Formerly Intergraph), Cyient (Formerly Infotech Ltd.), Mahindra & Mahindra Ltd., FIAT India Ltd, Hyundai R & D, Ashok Leyland, Punj Lloyd, ACC Limited, BALCO, GMMCO, Medha Servo Drives, BEML, Tata Consulting Engineers, Tata



Elexsi, Bhagyanagar Gas Ltd., Accenture, Infosys, Wipro Technologies, CapGemini, TCS, Cognizant, Tech Mahindra, Google India, Microsoft, Yahoo!, Amazon India, CSC, ADP, Commvault, Pega systems, Thomson Reuters, Netcracker, Tata Projects Ltd., Capital IQ, Deloitte, Cybage Software, IGATE Patni, Persistent Systems, Verizon, M&M EPC, Apps Associates, Broadridge, Sonata Software, Birlasoft, BEL, BEML, Virtusa, Computer Associates, , Gammon India, Nagarjuna Constructions, Samtel, Xilinx and Futures First etc.

The college provides the best learning atmosphere to the students with expert faculty supported with modern infrastructure and updated curriculum to suit industry requirements. The students admitted to the College are the top rankers from EAMCET. Hence they are the most sought after students for recruitments by prestigious organizations which visit the campus regularly. Further, the dream job concept practiced by the placement office provides opportunity to single job holders/students to attend interview of one more organization identified as Dream Company of their choice. Thus any student can have maximum two jobs on hand by the time he graduates. The dream job provision attracts various premium organizations at any point of time during the academic year.

The Performance of students has been commendable and placement record reveals the testimony of their performance. During the year 2010-11, the placements have touched a historic maximum figure of 728 job offers received by the College Students.

The Placement Office located in the Cellar of Technology Development Centre of the college provides the Visiting Organisations with the best infrastructure like Auditoriums for Pre Placement Talks, GD rooms, Interview rooms (Air conditioned) and Audio Visual equipments etc.,

The placement office selects a team of Placement Coordinators from final year which is an elite student group in the College which organizes many events for the College students apart from coordinating campus recruitment programmes.

Achievements:

University College of Engineering, Osmania University is the first Engineering College to get ISO 9001 Certification in former state of AP. The college is ranked ahead of most of NIT'S (as reported by India Today, Outlook, The week Career 360 & Dataquest). Osmania University is accredited by NAAC with "A" Grade. The College was also shortlisted by MHRD, GoI, among FIVE Institutions all over India for Upgradation to IEST (Indian Institute of Engineering Science and Technology) status which is equivalent to IIT Status. The Engineering College has got the BEST



ENGINEERING COLLEGE AWARD from Indian Society for Technical Education (ISTE), Loksatta and Star News for many academic years.

University College of Engineering, Osmania University is ranked ahead of many NITs at All India Rank 14 in Placements by India Today Magazine and All India Rank 20 by Outlook apart from many other magazines for academic year 2015-16.

For Batch of 2016, the Campus Hiring touched 590 by end of June 2016. Accenture, Capgemini, Infosys and Wipro Limited sharing the Premium company slot have offered 483 Job offers to the students during **Premium Company Recruitment Drive (PCRD)** organized by the Placement Office, OUCE during September 01-14, 2015. The job offers made by companies are as follows:

Accenture = 198, Capgemini = 68, Infosys = 110 and Wipro Limited = 107

Placement Office Organized a 5 days Placement Workshop (Samanvaya) for Pre-final Year Students of BE/ME (All Branches) & MCA of OUCE during March 29 – April 5, 2015 to sharpen the students technical, non-technical and soft skills for their upcoming placement season.

Placement & Training Officer:

V. Uma Maheshwar

Associate Professor

Dept of Mechanical Engineering

Assistant to Placement Officer: Mr. Ch. Shiva Kumar

Office Location: Cellar, Technology Development Centre



PLACEMENT & TRAINING OFFICE

UNIVERSITY COLLEGE OF ENGINEERING (A), OSMANIA UNIVERSITY, HYDERABAD - 500 007
CAMPUS PLACEMENTS 2015-2016

Statement of Job Offers Received by the Students - Branch wise (B.E.)

S.No	Company	CRP Dates	BE/UG							Total Offers for UG	ME/PG							Total Offers for PG	Overall UG+PG Total Offers	
			BME	CIVIL	CSE	ECE	EEE	EEE	Mech		MCA	ME BME	ME Civil	ME ECE	ME EEE	ME Mech	M.Tech CSE			
1	Oracle India (CRP)	July 8, 2015 & July 13, 2015	-	-	5	1	0	-	6	-	-	0	0	0	0	0	0	0	0	6
2	Shoretel	July 20, 2015	-	-	3	1	1	0	5	0	-	0	0	0	2	2	2	2	7	
3	Progressive Software (ISP)	July 22, 2015	-	-	-	-	-	-	0	-	-	-	-	-	1	1	1	1	1	
4	Mu-Sigma	July 23, 2015 & Aug 12, 2015	2	-	-	1	-	1	4	-	-	-	-	-	-	0	0	0	4	
5	Beautiful Code	July 27, 2015	-	-	3	0	-	-	3	-	-	-	-	-	-	0	0	0	3	
6	Deloitte India	July 22 & 29, 2015	-	-	1	6	1	-	8	-	-	-	-	-	-	0	0	0	8	
7	Salesforce India (ISP)	July 29, 2015	-	-	-	-	-	-	0	-	-	-	-	-	1	1	1	1	1	
8	JP Morgan	Aug 3, 2015	-	-	10	-	-	-	10	1	-	-	-	-	-	3	3	3	13	
9	FACTSET	Aug 4 & 5, 2015	-	-	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0	
10	Wellsfargo	Aug 6, 2015	-	2	4	1	0	3	10	-	-	-	-	-	-	0	0	0	10	



S.No	Company	CRP Dates	BE/UG						Total Offers for UG	ME/PG						Total Offers for PG	Overall UG+PG Total Offers	
			BME	CIVIL	CSE	ECE	EEE	Mech		MCA	ME BME	ME Civil	ME ECE	ME EEE	ME Mech			M.Tech CSE
11	Maruti Suzuki	Aug 8 2015 & Sept 29 2015	-	-	-	-	-	4	-	-	-	-	-	-	-	-	4	8
12	NCR Corporation	Aug 11 2015	-	-	1	-	-	1	-	-	-	-	-	-	-	-	0	1
13	NetCracker	Aug 13 & 14 2015	-	-	10	13	10	33	-	-	-	-	-	-	-	-	0	33
14	GE India (ISP)	Aug 24-2015	-	-	-	-	-	0	-	-	-	-	-	-	-	-	9	9
15	Accenture	PCR D Sept 01 - 14 2015	14	22	17	17	26	35	131	8	1	0	6	1	5	4	25	156
16	Capgemini		0	13	5	12	15	15	60	0	0	0	2	0	4	2	8	68
17	Infosys Limited		3	17	8	10	19	25	82	2	1	0	6	1	2	2	14	96
18	Wipro Limited		5	12	10	16	20	21	84	10	0	0	4	0	0	7	21	105
19	Zoho Corporation	Sept 12 2015	0	0	0	0	0	0	0	-	-	-	-	-	-	-	0	0
20	ITC AGD (Guntur)	Sept 22 & 23 2015	-	-	-	-	1	2	3	-	-	-	-	-	-	-	0	3
21	DE Shaw	Oct 5 & 6 2015	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
22	Orbees Info Labs	Oct 8 2015	-	-	-	-	-	1	1	-	-	-	-	-	-	-	0	1
23	Thomson Reuters	Oct 10 2015	-	-	-	-	-	-	0	-	-	-	-	-	-	-	5	5
24	Pega Systems	Oct 13 2015	-	-	5	2	-	-	7	-	-	-	-	-	-	-	0	7
25	Unisys	Oct 14 & 15 2015	-	-	2	-	-	-	2	-	-	-	-	-	-	-	0	2
26	HSBC	Oct 16 2015	-	-	0	0	0	-	0	0	-	-	-	-	-	-	0	0
27	CA Technologies	Nov 5 2015 & Dec 22 & 29 2015	-	-	3	-	-	-	3	-	-	-	-	-	-	-	1	4



S.No	Company	CRP Dates	BE/UG						Total Offers for UG	ME/PG						Total Offers for PG	Overall UG+PG Total Offers	
			BME	CIVIL	CSE	ECE	EEE	Mech		MCA	ME BME	ME Civil	ME ECE	ME EEE	ME Mech			M.Tech CSE
28	WinnOU	Dec 3 2015	-	-	-	-	-	0	-	-	-	-	-	-	1	1	1	
29	Gmmco	Dec 13 2015	-	-	-	-	2	2	-	-	-	-	-	-	0	0	2	
30	Amazon India	Dec 16 & Dec 23 2015	-	-	0	-	-	0	-	-	-	-	-	-	0	0	0	
31	Hexagon India	Dec 22 2015	-	1	1	-	-	2	-	-	0	-	0	0	0	0	2	
32	UURMI	Dec 21 & 23 2015	-	-	-	2	-	2	-	-	-	-	-	-	0	0	2	
33	Cyient	Jan 5 2016	-	-	-	2	1	4	-	-	0	0	1	1	2	6		
34	L & I(Construction)	Jan 7 2016	-	4	-	-	2	6	-	-	-	-	-	-	0	6		
35	Hero	Jan 8 2016	-	-	-	-	1	5	-	-	-	-	-	-	0	5		
36	Bytes India	Feb 4 2016	-	-	0	-	-	0	-	-	-	-	-	0	0	0		
37	Oracle India (Apps Devlp)	Feb 11 2016	-	-	3	2	0	5	-	-	0	0	-	2	2	7		
38	Adani Energy	Feb 12 2016	-	0	-	-	4	4	-	-	-	-	-	-	0	4		
39	Spectraforce	March 22 2016	-	-	-	-	-	0	1	-	-	-	-	1	1	2		
40	Bonaven Software	April 4 2016	-	-	0	-	-	0	0	-	-	-	-	1	1	1		
41	Bharat Electronics Ltd (BEL)	April 23 2016	Results Pending						Results Pending									
GRAND TOTAL			24	71	92	86	101	114	488	22	2	0	18	2	16	42	102	590



CURRICULUM DEVELOPMENT, AUDIT AND ACCREDITATION CELL (CDAAC)

The office of the CDAAC is responsible for all academic matters relating to both undergraduate and post graduate students of the University College of Engineering (A). On a continuous basis, the CDAAC office takes measures to enhance academic standards and quality of higher education. This includes in tune with the requirements innovation and improvements in curriculum, teaching-learning process, examination & evaluation systems and remedial teaching.

The college has adopted the Choice Based Credit System (CBCS) as per the guidelines given by national bodies like UGC, AICTE, from the academic year 2015-2016. The CBCS provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. It provides a cafeteria type approach in which the students can take courses of their choice, undergo additional courses and acquire more credits, and adopt an interdisciplinary approach to learning.

Further, the college has been working on internal quality assurance by initiating academic audit of the evaluation and assessment process. The CDAAC office also enables seeking accreditation from National Board of Accreditation, New Delhi. Currently, the college has NBA accreditation for its undergraduate and post graduate programs which demonstrate our commitment to excellence and continuous quality improvement.

Director:
Prof. P. V. N. Prasad,
EED, UCE, O.U



DIAMOND JUBILEE LIBRARY UNIVERSITY COLLEGE OF ENGINEERING

Phone: 040- 27682339 Fax: 040- 27095179

INFRASTRUCTURE:

- The Library is housed in a spacious double storied building with a plinth area of about 2420 square meters.
- Built on the occasion of the Diamond Jubilee of the College of Engineering in 1992.

DIGITAL LIBRARY:

- About 40 systems have been installed to access the following online journals.
- IEL ONLINE (4 Users License)
- ASCE
- ASME
- ACM
- McGraw Hill

LEARNING RESOURCE CENTRE:

- On the lines of Advanced Educational Centres like IIT'S the University College of Engineering has established a Learning Resource Centre.
- About 2372 CDs/DVDs acquired from IIT's, SOFTTECH and SONET
- The LRC has following facilities are acquired from TEQIP Funds:
- Plasma TV
- DVD Player
- LCD Projector
- 15 Multimedia Computer Systems with headphones

SECTIONS OF LIBRARY:

GROUND FLOOR

- Lending Section
- Technical Section
- SC/ST Book Bank
- Stack Room



- Students Reading Room
- Learning Resources Centre

FIRST FLOOR

- Journals Wing
- Digital Library (e-Resources)
- Text Book Section/Reference Section

LIBRARY COLLECTION:

The Library procures and stocks predominantly engineering books and journals to serve the requirements of following branches/subjects

Engineering

- Biomedical Engineering
- Computer Science & Engineering
- Civil Engineering
- Electrical & Electronics Engineering
- Electronics & Communication Engineering
- Mechanical Engineering

Science & Humanities

- Mathematics
- Physics
- Chemistry
- English

Competitive Examination Reference Books

- JRF
- TOEFL
- GRE
- GATE
- Engineering Services



At present the library has collection of books and current journals and back volumes as detailed below:

TYPE	TOTAL
BOOKS	
Books (UG & PG)	82901
SC/ST	7000
GIFT	4202
TEQIP	2186
Total Books	96289
No. of Titles	3500
JOURNALS	
e- Journals	175
Bound Volumes (Journals)	6295
Magazines	09

FINANCIAL RESOURCES:

- University Normal Budget – An amount of Rs.3, 64,000-00
- Non-University Fund of the College – An amount of Rs.3, 50,000-00
- Technical Education Quality Improvement Programme (TEQIP-Phase-II),UCE,O.U. Rs. 9,50,000=00

AUTOMATION OF THE LIBRARY:

- Automation of the Library was completed in the year 2007
- ‘NewGenLib’ Library software is used for library automation
- The Library collection can be accessed through web OPAC.
- Zebra Link Barcode printer is used to generate barcode labels.

SERVICES:

- Lending services (Books Issue & Returns)
- Inter Library Loan
- Web/intranet based information services

WORKING HOURS OF THE LIBRARY:

- The Library is kept open on all working days from 9:00 A.M to 9:00 P.M
- Reading Room kept open from 9:00 A.M to 12 Midnight



EXAMINATION CELL

Telefax: 040-27097140

Phone: 040-27682232

Preamble:

The Examination Cell was established in the academic year 1995-96, after declaring the college as an autonomous institute. The objectives of Examinations Cell are as follows; conducting B.E., M.E./M.Tech. and Pre-Ph.D. Examinations, valuation of answer scripts, declaration of results and issuing of memorandum of marks and certificates. It is headed by the Director of Evaluation and supported by two Joint Directors. There are sufficient numbers of supporting staff to take care of the routine work in the Cell. The Exam Cell is well established in terms of infrastructure, computing, printing facilities and generator. Examination Cell also conducts M.E./M.Tech. Examination of eight Engineering Colleges affiliated to Osmania University. The Examination Cell has been awarded with ISO 9001 certification in the year 2000.

The Examination Cell is now fully automated. Following are some of the developments after complete automation of the Exam Cell:

- Issuance of computer generated Hall Tickets and D forms
- Online entry of marks
- Results processing
- Web publication of results
- Computer generated Tabulation Registers (TR)
- Printing of various certificates

Officers:

Director of Evaluation:

Prof. V. Bhikshma

Joint Directors:

1. **Dr. P. Raja Sekhar (PG)**
2. **Dr. L. Sivarama Krishna (UG)**

Sections and Activities:

The Examination Cell has got three sections namely Confidential Section, UG Section and PG Section. The activities of these sections are given below.

Confidential Section Activities:

Paper Setting, Moderation, Proof reading, Printing, Packing & dispatch of Question Papers to the Examination Centers.

**UG & PG Section:****Activities:**

- Issue of Notifications as per the Almanac.
- Scrutiny of Examination Application Forms and issue of Hall Tickets.
- Preparation of Examination Time Tables.
- Conducting spot valuation for B.E. & M.E./M.Tech. Courses
- Processing and Publication of Results after conducting Results Committee Meeting.
- Printing, Verification and issue of Memorandum of Marks.
- Issue of Provisional Certificates, Consolidated Memorandum of Marks, Migration & Rank Certificates to the eligible candidates.
- Issue of Transcripts after due verification.
- Conducting Annual Awards function and awarding of Gold Medals, Cash awards and Rank Certificates to the eligible candidates every year.

Note:

1. The students are hereby instructed to read the Rules and Regulations for the four year Degree Courses in Engineering and two year PG courses in Engineering to understand the scheme of instruction and examination, rules of promotion, award of division, improvement of division and other rules of examinations. The scheme of instruction and prescribed syllabi can be obtained from the respective Departments.
2. However, the Examination Branch, Osmania University, will issue Degree Certificates to all the eligible candidates.

* * * * *



Centre for CONTINUING ENGINEERING EDUCATION PROGRAMMES (CEEP)

PREAMBLE

University College of Engineering, Osmania University has established Centre for Continuing Engineering Education Programmes (CEEP) for imparting continuing education to working professionals and academicians through

- Two years Post Graduate Courses
- One year Post Graduate Diploma Courses
- Short Term and Long Term certificate Programmes
- Training Programmes
- Workshops
- Faculty Development Programmes.

The above programmes are essentially class room teaching programmes offered at convenient timings to facilitate working professionals. Centre for Continuing Engineering Education Programmes (CEEP) also propose to offer subject enrichment/value added special courses through e-Learning and Web based Technologies in near future.

POST GRADUATE COURSES (PTPG)

Post Graduate courses in various specializations of Civil Engineering, Computer Sciences and Engineering, Electronics and Communication Engineering, Electrical Engineering, and Mechanical Engineering are being offered every year for past 30 years exclusively for working professionals. Special Officer –Part-time Courses was facilitating these courses with the help of respective Departments. However, with effect from the academic year 2008, the Centre for Continuing Engineering Education Programmes (CEEP) is offering various above stated Post Graduate Courses, through respective Departments.

Various specializations offered by the Department and the corresponding intake of students are as under:-

Post Graduate Programmes (M.E./M.Tech.) (Part-Time)

S.No.	Course(s)	Specialisations	Duration	Year of Commencement	Sanctioned Intake
1	Civil Engineering	Structural Engg.	3 Years	1966	15
		Transportation Engg.	3 Years	2010	15
2	Computer Science & Engineering	CSE	3 Years	1991	25
		PDS	3 Years	1991	30



3	Electronics & Communication Engineering	Digital Systems	3 Years	1975	15
		SSP	3 Years	1975	15
4	Electrical Engineering	IDC	3 Years	1971	15
		Power Systems	3 Years	1971	15
5	Mechanical Engg.	Production Engg.	3 Years	1994	15
		Automation & Robotics	3 Years	1994	15
		Turbo Machinery.	3 Years	1994	15
		CAD/CAM	3 Years	2014	32

Admission to these courses is on the basis of merit obtained at an Entrance Test to be conducted by the Osmania University and subject to the other eligibility requirements as announced from time to time.

As on date, over 425 students are on rolls, perusing the post graduate programme offered by CEEP.

All academic requirement of M.E./M.Tech courses offered under CEEP are same as that of the Full-Time M.E./M.Tech courses.

OTHER PROGRAMMES:

Announcement pertaining to other programmes such as Certificate Courses, Training Programmes etc. are made from time to time according to the schedule.

OFFICE TIMINGS:

Monday to Wednesday -5.30 PM to 8.00PM

For further details please contact,

Prof. Ravande Kishore,
Director

Sri K. Yudhveer Goud,
Deputy Registrar

Centre for Continuing Engineering Education Programmes (CEEP)
University College of Engineering,
Osmania University, Hyderabad – 500 007
Phone No: 040-27071759



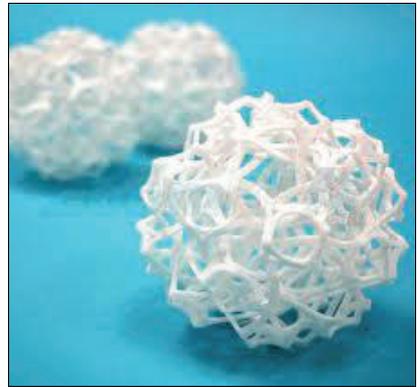
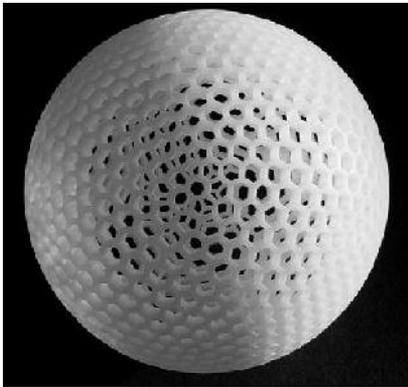
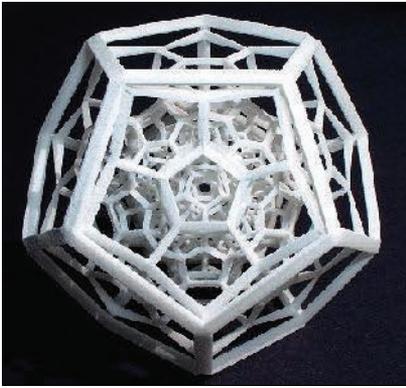
CENTRE FOR PROTOTYPING AND TESTING OF INDUSTRIAL PRODUCTS (CPTIP)



EOS SLS Rapid Prototyping System



SOME PROTOTYPES PRODUCED CENTRE





**CENTRE FOR PROTOTYPING AND TESTING OF
INDUSTRIAL PRODUCTS (CPTIP)
University College of Engineering
Osmania University, Hyderabad – 500 007**

PREAMBLE

The state-of-the art ‘Center for Prototyping and Testing of Industrial Products (CPTIP)’ was established in the year 2009 at University College of Engineering, Osmania University with a fund of Rs. 150 Lakhs sanctioned by MHRD, Govt. of India. The Selective Laser Sintering (SLS) based Rapid Prototyping (RP) system with specialised software and hardware for advanced modeling and analysis was procured under this centre. This prototyping system is first of its kind in A.P. and first in India with regard to accuracy. The center is providing product development and prototyping facilities to B.E, M.E./M.Tech students and Ph.D scholars. Apart from above, the center is also actively involved in doing consultancy projects by providing prototyping facilities to prestigious defence labs such as DMRL, DRDL and industrial firms like GE, Mahindra Satyam, Satyam-Venture, Analogies Tech. India Ltd., C2P, Models India, Transcend etc. The centre is also actively involved in serving the society by helping doctors in making prototypes for pre-planning surgery of complex operations.

OBJECTIVES

- To conduct research in the frontier areas of Rapid Prototyping and Product Development covering the state-of-the art technologies.
- To provide prototyping facilities to B.E, M.E./M.Tech students and Ph.D scholars for doing their project/research works.
- To execute sponsored and consultancy projects thus improving industry-institute interaction.
- To provide prototyping facilities to medical professionals by building prototype models that will help in pre-planning for surgeries involving complex operations.
- To conduct short term training courses, conferences, workshops and seminars in the broad area of Rapid Prototyping and e-Manufacturing that will help students/faculty/ in acquiring new skills in this area.



DETAILS OF FACULTY MEMBERS

Staff	Specialization/ Research Interests	Membership in Professional Bodies
Director Dr.Sriram Venkatesh, Ph.D, Professor, Dept. of Mechanical Engg., U.C.E, O.U	CAD/CAM, Bulk Materials Handling, Rapid Prototyping, Machine Design	FIE, MISTE, MISME, MTSI
Faculty Associated Dr.L.Siva Rama Krishna, Ph.D Assistant Professor, Dept. of Mechanical Engg., U.C.E, O.U	CAD/CAM, CIM, Web Based Manufacturing Systems, Rapid Prototyping, Industrial Engg.	MIE,MISTE, MIAENG, SMIACSIT
Technical Staff Dr. K. Buschaiah, Scientist/Instrumentation Engineer Dept. of Mechanical Engg., U.C.E, O.U	Production Engineering	

CONSULTANCY WORK UNDERTAKEN:

DRDO, DMRL, ECIL
 M/s Analogics Tech India Ltd.
 Mahindra Satyam
 Satyam Venture Engineering Services
 Transcend India Pvt.Ltd.
 Models India
 BioGenex
 Amba Bhavani Toolcrafts
 Sir Sai Technologies
 Think Power Technologies
 SensaCore Medical Instrumentation Pvt. Ltd.
 Digital Dynamics
 Bakeys
 Redfine Signals
 Yatna Engineering Solutions
 Hanbit Automachine Technology Pvt. Ltd.
 Thirumalasetti Industrial Engineering Solutions
 Celltree – Bio Labs Pvt. Ltd.
 ACME Toolings
 HBL Power systems Ltd.
 Guts Electromech Limited
 COVIDIEN
 Nobel Automotive



ACHIEVEMENTS

1. A complete set of new design of body armor for defence personnel was made in a full scale for form fit and functional trials & design finalization to DMRL.
2. Building prototypes for Bio-medical, Electronics, Electrical, Computer and Civil Engg applications.
3. Medical doctors are using prototypes built at the center for surgical trials, maxillofacial surgery and as patterns for biomedical implants.
4. Safety devices for sports personnel such as knee brace, knee caps and cups built at the center were demonstrated in USA, UK, Australia and Brazil.

INTERNATIONAL RECOGNITION

The work carried out at the center has been recognized internationally. Many vendors have exhibited the components made at the center in international exhibitions like USA, UK, Australia, Brazil and Canada for design reviews and working models.

1. PEPSI mixing assembly units built for Mahindra Satyam were exhibited to PEPSI Company at USA
2. Prototypes developed for sports personnel were demonstrated at in USA, UK, Australia and Brazil.
3. Prototypes for surgical trials and medical implants were supplied to government and corporate hospitals.

DISTINGUISHED VISITORS

The following distinguished visitors have appreciated the facilities and recorded their comments.

Sl No	Date	Name & address
1	26-03-2009	Mr. Graham Rogers, Deputy Vice Chancellor, University of Wales, Newport, UK
2	17-09-2009	Prof.R.Venkateshwar, Controller of Exams, Osmania University, Hyderabad
3	05-01-2010	Prof. James Staicken, Biological and Agricultural Engineering, Kansas State University, Manhattan, KS66506, USA
4	05-01-2010	Prof. Raju Sivarama Dandu, Mechanical Engineering Technology, Kansas state, Salind, USA
5	27-04-2010	Mr. Peter Noyes, Vice chancellor, University of Wales, Newport, UK
6	27-04-2010	Prof. Jan Nayer, University of Bristol, UK
7	18-05-2010	Prof. R.V.RajaKumar, Vice Chancellor, RGVKT, Hyderabad
8	20-09-2010	Dr. D.R Bains, School of planning



SI No	Date	Name & address
9	04-02-2011	Dr. P. Thanapandi, Mr.S.Takano
10	09-03-2012	R. Singh, Director NMDC, Masab Tank, Hyderabad
11	09-03-2012	V. Ramchander MD, APITCO LTD, Hyderabad
12	05-10-2012	Prof. H.K.Raval,SVNIT Surat,NBA
13	06-10-2012	Prof. D. Thukaram Dept. of Electrical Engg I.I.S.C, Bangalore – 560012.
14	18-07-2013	Pam Eakins- Breing
15	18-07-2013	W. Frankliquin – Boeing Seattle, WA

PROJECTS AND DISSERTATIONS COMPLETED

BE : 05
M.E: 03

PAPERS PUBLISHED

1. Performance Evaluation of Various STL File Mesh Refining Algorithms Applied for FDM- RP Process” published by Springer in the Journal of The Institution of Engineers (India): Series C- Mechanical, Production, Aerospace and Marine Engineering, ISSN 2250-0545, DOI 10.1007/s40032-016-0303-4, June 2016.

TRAINING PROGRAMMES CONDUCTED

The center has been conducting training programmes on RP technologies to the faculty, students and persons from industry.

1. One week training programme on “Rapid Prototyping and E-Manufacturing-09 (RPTEM-09)” 23rd March 2009 to 28th March 2009.
2. One Day workshop on “Advanced Manufacturing Technology” July 30th 2009.

The center has received lot of appreciations and good feedback for the products developed at the centre. Defence labs (DMRL and DRDL) and companies such as M/s. GE, Mahindra Satyam, Satyam-Venture Engineering Services, Analogics Tech. India Ltd., C2P, Models India and Transcend are using the technology and facilities provided at our center for their product development and design reviews.

This made industry to look to Osmania University, Hyderabad for services related to rapid prototyping, which has helped the University to claim its rightful place in rapid prototyping technology.



For further details Please Contact:

Dr. Sriram Venkatesh

Director, Center for Prototyping and Testing of Industrial Products (CPTIP),
University College of Engineering,

Osmania University, Hyderabad – 500 007

Mail: cptipou@gmail.com, Cell No: 9440408333, 9849867046

COMPUTATIONAL FLUID DYNAMICS CENTRE

University College of Engineering (Autonomous),
Osmania University.

Computational fluid dynamics centre (CFD centre) is equipped with 34 computers and a server with ANSYS-CFX software. The center offers computing facilities for M.E. and B.E. students of the college for carrying out their project works in computational fluid dynamics area. Training programmes and workshops were conducted for industry, academia and PG students on theoretical concepts of CFD along with hands on practice. Some of project works carried out in the center had visible outcomes in the form published papers in National and International Conferences.

CFD is the branch of fluid dynamics providing a cost effective means of simulating real fluid flows by the numerical solution of the governing equations. The various projects carried out in the center are Temperature and Pressure variation around a turbine cascade, performance of a centrifugal pump, aero dynamic flow analysis around a four wheeler, drag force calculations on a train, design modifications to improve centrifugal compressor performance, design of Francis turbine casing, pressure recovery in low solidity vane diffusers, flow analysis of cryogenic turbine, temperature analysis of turbine blade root, design of exhaust manifold of an internal combustion engine, air conditioning load calculations for a conference hall, two phase flows in air conditioning capillary tube and cavitation in centrifugal pump.

The future plans of the center include conduct of training programmes and workshops for the research scholars, industry CAE Engineers and Academic faculty and students of Engineering Colleges in niche developments.

Prof. P. Usha Sri
Director

CFD Center

Email:emailushasri@yahoo.com



CENTRE FOR EXCELLENCE IN MICROWAVE ENGINEERING (CEME)

Phone: 040-27021273, email: ceme_uceou@yahoo.com

Introduction:

The Department of ECE, recognizing the importance of Research & Training activities in the field of Microwave Engineering, considering the expertise available in the Department, coupled with the need for developing quality manpower in the field of RF and Microwave Engineering, collaborated with Astra Microwave Products Ltd, Hyderabad to establish the Centre of Excellence in Microwave Engineering in the Department of Electronics and communication Engineering. The aim of the collaboration and cooperation is to promote the development of quality manpower in the specific area of Microwave Engineering. The Centre was established on 30th October 2006, Presently Dr.V.M.Pandharipnade is serving as Honorary Director of the centre. The Advisory Board was constituted to monitor and guide the Centre's activities.

Objectives of the Centre

- To encourage UG & PG students/research scholars to enter in the field of RF Circuit Design, Microwave Circuit Design, simulation, Numerical methods in Electromagnetics, Antenna Analysis & Design, Microwave Communication System Design.
- To improve teaching skills in the area of Electromagnetics & Microwave Engineering by producing Quality course material, Design tutorials.
- To carry out R & D projects on practical problems originating from Defense R&D Labs, Industries, R & D Institutions.
- Organize short term & long term courses in the broad field of RF and Microwave Circuits, Antennas, Phased Arrays, Radar Systems.
- To strengthen Institute – Industry interaction on mutual basis.

Infrastructure

The Centre has established state of the art laboratories with following software and Hardware equipment facilities

Software

- Agilent Advanced Design System (ADS)
- AWR Microwave Office(MWO) and Visual System Simulator(VSS)



- Zealand IE3D EM Simulator
- SONNET High Frequency EM Simulator
- Ansys HFSS

MEMS Facility:

National Programme on Micro and Smart Systems (NPMASS) of IISc Bangalore identified our Centre to establish a National MEMS Design Centre at our Institute. The main objective of this activity is to make various MEMS Design tools available for research scholars and students. Under this activity the centre received the following Software.

1. A class kit bundle of COMSOL with 30 student and 01 researcher licenses.
2. One license of Intellisuite basic version with full capability.
3. One researcher license of CoventorWare MEMS+ .

Hardware

1. Agilent 8720ET Vector Network Analyzer (50 MHz- 20 GHz), S- Parameter Test Set
2. HP 85047A Scalar Network Analyzer (300 KHz- 6 GHz), S- Parameter Test Set
3. Agilent E4418B EPM Series Power Meter- 1, HP 437B Power Meters - 2
4. Advanced Microstrip Trainer Kit AMTK – 9000C- SICO Ghaziabad/IIT Delhi Product
5. Anritsu MS2720T Spectrum Analyzer (9KHz-20GHz)
6. Rohde & Schwarz FSH8 Spectrum Analyzer (9KHz-8GHz)

Research & Training:

- The Centre recently received a project on “Analysis, Design and Simulation of W-band Antenna for FMCW Applications” from RCI, DRDO, Hyderabad in September 2015. The Total cost of the project is Rs. 9.99 Lakhs and duration is 18 months.



CENTRE FOR CREATIVE TECHNOLOGIES

Phone No: 040-27098254, Fax: 040-27095179

Centre for Creative Technologies (CCT) deals with the students of University College of Engineering(Autonomous), Osmania University, Hyderabad. To bring out their Innovative, Design, and Managerial skills in present day and futuristic technologies of the globe, it also providing facilities for students to do inter disciplinary projects with new concepts as an individual/group at B.E second and third year level. CCT wants to develop all round personality in the field of Engineering and Technologies.

The Centre for Creative Technologies strongly believes that it doesn't just take quality teaching to make an engineer. It requires nurturing with proper guidance, constantly giving the feeling of responsibility to oneself as well as to the society. Hence it provides an opportunity to the students of this Institute (Bio-Medical Engineering, Civil Engineering, Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, and Mechanical Engineering) who has a rough idea; the Centre will help to bring a prototype of their idea(s) by sharing various technologies.

It believes in excellence in action and in the pursuit of knowledge. The dedication and diligence of every individual identifying with the cause of *Imagination is Intelligence* their goal and ready to face any extreme challenges of tomorrow.

Events Conducted:

- **Envisage** : 2006, 2007 and 2008
- **Samskruthi** : 2009 and 2014
- **Quizzotic** : 2011, 2012, 2013, 2014, 2015 and 2016
- **FreeStyle** : 2015 and 2016

Advisory Committee

Dr.S.Sameen Fatima	Principal & Professor UCE, OU	Chairperson
Dr.Narsimhulu Sanke	Assistant Professor,MED	Director
Dr.P.V.N.Prasad	Professor,EED	Member
Mr.V.Nageswara Rao	Associate Professor,MED	Member
Dr.P.Chandrasekhar	Associate Professor,ECE	Member
Dr.B.Mangu	Associate Professor,EED	Member
Dr.B.Rajendra Naik	Assistant Professor,ECE	Member
Dr.M.V.S.Sridhar	Assistant Professor,CED	Member

Correspondence Address**DR.NARSIMHULU SANKE****Director**

Centre for Creative Technologies
University College of Engineering
Osmania University, Hyderabad
040-27098254
E-mail: cetdirector@gmail.com

Quizzotic– 2015 (March 21, 2016)

It comprises a spectrum of areas encompassing the latest developments in both technical and non-technical arena. Quizzotic 6.0 was enormous success with over two thousand teams participating and organized by Erudite, University College of Engineering, Osmania University, Hyderabad-500007.



Quizzotic organizers with **Dr.Narsimhulu Sanke**, Student Advisor, **Prof.S.Ramachandram**, Principal, UCE, OU, **Mr.K.V.S.Rao**, AGM, Central Bank of India



Participants of Quizzotic v 6.0





Participants and Valentors of Quizzotic v 6.0



Quizzotic v 6.0 organizers, University College of Engineering, Osmania University, Hyderabad



FREESTYLE 2016 took its grand opening on April 19, 2016 at 9:30 am in the ECE auditorium. The ceremony started off with a spiritual song explaining the importance of being able to take every defeat and win and the ‘never say die spirit’ rendered so beautifully by freshmen. April 19 would surely be etched in the memories of all the participants and organizers alike. Engaged as they were during the presentations, every moment of it was thoroughly lived.



Freestyle 2k16 banner

Freestyle winners with **Prof.S.Ramachandram**, Principal, UCE, OU



Freestyle Winners with **Dr.Narsimhulu Sanke**, Student Advisor, UCE, OU



Freestyle organizers with **Prof.S.Ramachandram**, Principal,
Dr.Narsimhulu Sanke, Student Advisor, UCE, OU



Freestyle2k16 participants were assembled in the Auditorium on 19.04.2016



ENTREPRENEURSHIP DEVELOPMENT CELL

Ph: 040-27098501, Fax: 040-27098501

Entrepreneurs are not necessarily born, but they can also be made. With this in view, the idea of teaching the subject of Entrepreneurship Development to engineering undergraduates, as part of curriculum was initiated 12 years ago and is now continuing since then.

As a gesture of rendering socially relevant technical services to the common society, the Entrepreneurship Development Cell has formed and initiated two programmes. The first one is Small Industries Management Programme (**SIMAP**). The second one is Skill and Technology Up gradation Programme (**STUP**). Small Industries Development Bank of India (**SIDBI**) sponsor both the programmes.

Workshop on Entrepreneurship

A Workshop on Entrepreneurship is conducted each year at the end of the semester course. This has enabled the students to interact with the personnel from industry. While the bank experts explained the methods of financing an industry, the officers of industries department unfolded the infrastructure facilities and subsidies offered by the government to the entrepreneurs. Such interactions helped students to accumulate practically useful information and also provided them a positive mind to nurture entrepreneurial ideas.

Library

The EDC is having a library with a stock of around four hundred and fifty books and fifteen video cassettes on various aspects of Entrepreneurship. More publications, periodicals, journals and relevant books are being added every year. News letters from EDII, Ahmedabad and also news letters from the embassies of France, China, Indonesia etc. are received periodically. The books are issued to the students for reference.

EDC Programmes:

Small Industries Management Programme (SIMAP)

The Programme aims at two objectives. One is to solve the unemployment problem especially among non-technical graduates and the other is to provide trained management personnel to small scale industry. The SIMAP course is of 14 weeks duration, which consists of theory courses on industrial management and a compulsory industrial interaction. The participants are mostly unemployed graduates of Arts, Commerce, Science, Technology diploma holders. A few sponsored candidates from industry



also attend this programme. The selection of candidates is based on interview/written test. So far 53 industries have rendered practical interaction for the students under this programme. Eleven programmes were conducted so far in succession.

Skill and Technology Upgradation Programme (STUP)

New Skills and Technologies have become necessary in the fast growing globalisation. This programme helps industries to upgrade and keep themselves competitive. The participants are working personnel from industry. EDC is conducting this programme as a workshop for 2-3 days at University campus. Theoretical expertise of the professors and Technology of the field experts from industry is blended to present the latest technologies in the concerned area. The infrastructure facilities like Audio-Visual lab, Computer labs, Software packages etc. of the university are made use for the programme.

SIMAP course for O.U Campus graduates

Proposals are underway to conduct Small Industries Management Programs for Hostel inmates of Osmania University Campus. The hostel inmates of the University campus are normally from rural areas: some of them are quite talented but are at disadvantageous position due to lack of guidance and monitoring. SIMAP aims at covering up this deficiency for the hostel students and mould them into entrepreneurs.

Finances

Small Industries Development Bank of India (SIDBI) is the main sponsored for the programs. For each program, the SIDBI renders 50% of the cost and the participants contribute for the balance expenditure. Few small scale industries co-sponsored the program, though in a small way. The college of engineering supported the ED Cell initially for 3 years under the guidance of Prof.D.C.Reddy. Now the cell became not only self-sufficient with its own personnel and funding.

Corpus Fund

The SIDBI has given a corpus fund of Rs.20 lakhs to the cell, to organize SIMAP on regular basis.

Industry – Institute – Interface.(I-I-I)

“SIMAP” programs encompasses twin objectives of the students getting trained at industries and the industry experts delivering guest lectures at University campus. Thus the program has made a good Industry – Institute Interface.

**Programmes organized in the Academic Year 2014-15 (June 2014- July 2015):**

- Maintenance & Repair of Mobile Phones, a 3 day workshop organized in EDC, UCE, OU from 12th to 14th Feb, 2015. 60 participants participated in the workshop.

For further details contact:**Dr.M. Chandra Sekhar Reddy**Director,
EDC,UCE, OU.



INDUSTRIAL DEVELOPMENT AND INCUBATION CENTRE (IDIC)

1. Rational :

Engineering Colleges have been providing industrial consultancy in Engineering systems testing and design. Yet even today, the operation of Indian Industry continues to be limited to standard Engineering Technologies. The Indian Industry needs to embark in new relevant emerging disciplines such as alternative rural energy-systems and high technologies needed for instance in high speed rail travel. The onus for modernizing the Indian Engineering Industry is on the university. It is not just enough to sit back and provide industrial consultancy. The University Departments of Engineering will have to act as R & D partners of companies, to embolden them to branch out into new domains. Even that may not be enough to help foster indigenous industrial development in new areas, such as / Biomedical Engineering and Biotechnology-in-waste treatment. This then is the mandate of IDIC.

2. Introduction:

The Director IDIC (Industrial Development and Incubation Centre) office has been established in the year 1998. The office offers various consultancy services to GHMC, T.S. Police Housing Corporation, T.S.RTC, R & B, Panchayatah Raj, Irrigation & CAD, Indian Railways, BHEL, DRDO, NFC, NMDC, H.M.D.A etc., IDIC is also giving consultancy services to private organization / departments for quality control and proof checking etc., further the main aim of this office is to disseminate the knowledge and awareness of quality control technique to all government and private Engineering departments. The University College of Engineering has very good experienced and eminent faculty / Experts in the area of Civil, Mechanical, Electrical, Electronics, Computer Science, Biomedical Engineering. Depending upon the requirement and need, the faculty members will be in need to assign the consultancy works to expert members of the above specialization faculty. The IDIC is a centre where all the Engineering quality assessment can be ascertained for productive and with innovative methodologies.

A prime theme of IDIC' effort is to address all the stages in the life cycle of technology development i.e., from conceptual to design stage, from production to marketing strategies, Issues such as manufacturability, quality-control, material innovation and substitution, and product costs are to be considered simultaneously.



This initiative entails.

- Advanced software and hardware facility for R & D.
- Identification of promising research that can end up as a marketable technology or products.
- Manufacturing facility for production of limited prototypes to prove the product in the market.
- Business development planning for launching new companies.
Consultancy, R & D of new technologies and prototype manufacturing, constitution of R & D divisions for companies, and launching of new companies in collaboration with entrepreneurs.

3. Consulting Services :

(Director : Prof. V. Bhikshma)

A. Information on Technology Development.

Depending on the areas of interest, IDIC Members would be kept informed through newsletters and bulletins about development in technology, changes in Government policy etc., Briefs on products / processes / soft wares developed at the University College of Engineering (UCOE), OU, Hyderabad will be periodically published and made available to the members.

B. Information Support Services

Access to retrieval from on-line international and CD ROM databases will be provided with 10% discount on service charge. The large inventory of books, journals, periodicals available at the Library of UCOE can also be advantageously exploited for reference purposes by each member.

C. Continuing-education Courses

IDIC Members would be entitled to preferential treatment in programmes tailored to meet their specific needs for other programmers, nominees from IDIC members will enjoy priority in admission and 10% concession on registration fee.

Technology Appreciation Programmes and Future Vision Seminars to keep abreast with the latest state-of-the-art and emerging technologies. Technology-Appreciation Programmes and Future-Vision Seminars are proposed to do organized by IDIC. From time to time members will be invited to participate in these programmes, suggest themes and share experiences with experts in the industry and academia in India and from other parts of the world.



D. Industrial Clinics

Depending on the number of IDIC members in a particular strength area of UCOE, periodical industrial clinics to solve technology-related problems posed by the members can be organized.

Access to Faculty Expertise for exploratory discussions IDIC will assist IDIC members in interacting with individual faculty experts on secondment for short-term consultation on priority. Similarly key executives of industry members can have short-term consultation on priority. Similarly key executives of industry members can have short-term residence in UCOE laboratories or departments.

4. Serving as R & D Partners to Companies:

It is envisaged to create a consortium consisting of academic units / labs and industries. Early emphasis on industrial participation will ensure that research programmers lay focus on industrial needs, and facilitate smooth technology-transfer. From the beginning, emphasis will be on stressing real-world issues, thus avoiding transition problems. Emphasis is also to be laid on software quality and transportability. This will ensure that developed software will add to hard-ware usefulness.

5. Technology Transfer and Company-Incubation.

The IDIC would be setup with an annual budget provided as a seed funding by major industrial companies. It will adopt promising research projects (being carried out in the education department and the interdisciplinary divisions of UCE, OU) that have the potential of resulting in commercial technologies. The technology prototyping and testing will be carried-out at IDIC, which will also carry-out feasibility studies and budgetary analysis for setting up small companies to manufacture and commercialize new technologies and systems.

The role of IDIC would be to either transfer the technologies to existing companies or to even incubate new companies. Once promising technologies are identified and prototyped, the sponsoring companies would be given the first right of acquiring and commercializing them. If the sponsoring company would be incubated to manufacture and commercialize such technologies or devices. In that case, the students and staff involved in developing these technologies would direct these companies. The issue of ownership and partnership would be worked out so that both the inventors and IDIC would be joint beneficiaries.



6. Fostering Economic Development:

The Research-consortium concept and Advanced Prototyping Centre will collectively provide an effective technology-transfer mechanism for industry. This initiative will address a broad spectrum of industry needs-production technology as well as trained human resources. The incubation of new companies will help to develop indigenous industries in emerging areas. IDIC is strategically designed to diversify and culture industrial interaction and have a positive impact in the region and nation in emerging technology-based economy.

For more details please contact :

Prof. V. Bhikshma

Director,

Industrial Development and Incubation Centre,

University College of Engineering,

Osmania University, Hyderabad-500 007.

Phone: 040-27072201, Fax: 040-27072201



RESEARCH AND TRAINING UNIT FOR NAVIGATIONAL ELECTRONICS (NERTU)

Ph No: 27098066, 27682362 Fax: 27091762

E-mail: director_nertu@yahoo.com

Introduction:

The Department of Electronics (DoE), Government of India, recognizing the importance of Navigational Electronics to the country and the specific needs of the Department of Civil Aviation and the Indian Air Force, decided to create a national center for expertise in this area. Proposals were invited, and the one submitted by the Department of Electronics and Communication Engineering, Osmania University was selected. Thus the Research and Training Unit for Navigational Electronics came into being on 1st April, 1982 as a sponsored project of the DoE. It continued to enjoy this status until September 1992. In recognition of the excellent services rendered by it to the user organizations, it was made as permanent establishment, a research center of Osmania University by funding its recurring expenditure. The first Advisory Committee (1982-1987) was headed by the former President of India, Dr. A.P.J. Abdul Kalam, who was then the Director of Defence Research Development Laboratory (DRDL), Hyderabad. Today, NERTU is the focal point for research and training, in the frontier areas of Navigational Electronics in India. It is the first University centre to work in the area of Global Positioning System (GPS) and GPS Aided Geo Augmented Navigation (GAGAN) System.

Objectives:

- To conduct research in the frontier areas of Navigational Electronics covering the current state-of-the art technologies.
- Identification of research topics based on sponsoring agencies requirement and on-going research work at national and international level for B.E., M.E., and Ph.D. students.
- To execute sponsored and consultancy projects.
- To conduct short term courses, workshops and symposia in the broad area of Navigational Electronics that will aid manpower development in this area.

Since its inception, NERTU has successfully executed **50 sponsored and consultancy projects**, funded by DRDO, ISRO, DST, MIT, ECIL, HAL, BEL, AICTE and ASL, in different areas related to signal processing, communications and navigation. NERTU staff has guided more than **30 PhD and 150 ME/M.Tech.** students for their dissertations. It has also conducted



63 short term courses/workshops/conferences on various topics of signal processing, communications and Navigation. Scientists, engineers, academicians and research scholars from many organizations have participated and benefited from these courses.

The core resource of NERTU is scientific staff, which has now acquired excellent expertise in the areas of Signal Processing, Communication Engineering and Navigational Electronics. At present it is headed by

	Areas of Research
Dr.P. Laxminarayana, M.E., Ph.D, Professor and Director	Speech Signal Processing, GNSS Signal Processing, Signal Processing for Development Navigation Systems, Real Time Processing with Digital Signal Processors.

Projects Completed in the Year 2015-2016:

1. “Automatic Speech Recognition (ASR) over VOIP and Wireless Networks”, Major Research Project sponsored by UGC, New Delhi. **Chief Investigator:** Dr. P. Laxminarayana
2. “Optimization of AMR-WB Codec”, consultancy project sponsored by Lantiq India Communication Pvt. Ltd. **Chief Investigator:** Dr. P. Laxminarayana

Short Term Courses Conducted in the Year 2015-2016:

1. **An Evening School on “Automatic Speech recognition and synthesis”**, 5th August 2015 – 20th November 2015, (Two Days in a week, 3.00PM-8.30PM).
Coordinator: Prof.P.Laxminarayana, **Co-coordinators:** Mr.Mythilisharan and Mr.M.Ram reddy
2. **An Evening School on “Image Processing and Its applications”**, 4th August 2015 – 20th November 2015, (Two Days in a week, 3.00PM-8.30PM)
Coordinator: Prof.P.Laxminarayana, **Co-coordinators:** Mrs.P.Hema Sree and Mr.Balnarsaiah
3. **A 4-Day course on “GNSS Signals, Receiver Algorithms and Applications”**, 16-19, December 2016.
Coordinator: Prof.P.Laxminarayana, **Co-coordinators:** Mr.B.Harish and Mr.Rajasunand

Infrastructure: Laboratories

NERTU has excellent laboratory facilities in Microwave, Navigation and Communication, Image and Signal Processing laboratories. The laboratories



are equipped with latest computers and internet facilities. These are enriched with sophisticated equipment. The details are as follows:

NovAtel make Dual Frequency GPS receiver (Model:DL4+), Turbo Rogue Dual frequency GPS Receiver (Ionospheric calibration system, ICS-4000Z) from Allen Osborne Associates, U.S.A., GPS/LRF integration kit (ike-305) from Survey Labs. Spectrum analyzer (HP, IFR-2398), CDMA-DSSS Trainer kit with bit error rate measurement (Model: ST2131A), PC based Logic Analyzer 32 Channel, Satellite Communication Trainer Kit (Model: ST2271), Mobile communication experimental set up and Rover, Base station UHF-VHF system. Bernese software for processing GPS data, from Bern University, Switzerland.

Library facilities:

NERTU has a well-furnished library equipped with international editions and reference books. The library has rich collection in subjects like GPS, Antennas, Mobile Communications, Signal Processing and Image Processing. Conference proceedings and the lecture notes of short courses conducted by NERTU are also available. Books are lent on inter-library loan to Navy, Air force officers, trainees of Navigation and Signals School, Air force station, Begumpet. Also students, staff and scientists of various departments of O.U., JNTU, DRDO labs, Airports Authority of India, NRSA, NGRI and affiliated engineering colleges of twin cities avail our library facility.

General Information (1982 - 2013)

1. No. of Projects Completed :	40
2. No. of Projects under Progress :	6
3. No. of Journal Publications :	96
4. No. of Conference Publications :	309
5. No. of Technical Reports for :	124

Sponsored project

1. No. of General Technical Reports :	80
2. No. of Short Courses/Workshops/ :	53

Seminars Conducted

1. Total No. of Volumes in Library :	3112
2. No. of Ph.Ds Awarded :	25
3. No. of M.E/M.Tech Projects Completed:	104

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CENTRAL COMPUTING CENTER

Phone No: 040-65170010

Central Computing Center (CCC) is created under TEQIP Project during the Academic year 2006-2007 to provide Central Computing Facilities to the students and the faculty of all the Dept. of University College of Engg.

Facilities available under CCC are as follows:

- Campus Wide Networking (CWN)
- Internet Connectivity
- Server Farm
- Central Software Lab, Internet Lab
- Central e-class room.

Campus Wide Networking (CWN):

CWN is established with 1Gbps Fibre optics Cable Connectivity to all the Departments and hostels of the engineering college. It is equipped with the high Speed Core Switch (Catalyst 6513), Cisco Firewall ASA 5510, 20 numbers of Distributed Switches (Catalyst 4503, 3560, 500), Cisco Works LAN Management Server (LMS), Access Control Server (ACS), VLAN Management Server (VMS). It enables sharing of resource like Journals, Learning Materials, library information Systems and Student Information Systems, Servers and Software of the all the Departments.

Internet Connectivity:

A Bandwidth of 1 Gbps under NKN(National Knowledge Network)Internet Connectivity has been provided to facilitate 24x7 access to the Internet. In addition, 60 Mbps Internet connectivity is provided as a backup.. The Internet connectivity is extended to Hostels with Wi-Fi Connectivity.

Server Farm: Server farm is equipped with the following IT infrastructure.

- Sun Blade -8000 Server (Qty 2)
Web Server, Mail Server
- Sun Fire v440 Servers (Qty 2)
DNS, FTP
- IBM P5 Server for Database
- EMC NAS Server for Storage Data
- Silicon Graphics Prism
- Ten dumb terminals connecting to FTP Server
- Symantec Endpoint Protection Server
- IBM 226 Servers (qty 4)



Access Control server (ACS) for network authentication
Campus Dimension Software Server, Rational rose Software Server
Mathematica Software server, Anti-Virus Software Server

Central Software Lab:

This lab is equipped with 100 desktop systems with access to CWN and the Internet. This lab is meant for the students belonging to all the departments. Lab is kept open between 9.00 a.m. to 9.00 p.m. The particular student can access the following software:

Rational Rose,	Mathematica,	Oracle,	ICM software
MATLAB,	PROe,	AUTO CAD	ANSHES
JAVA,	C/C++,	VX-WORKS	

Internet Lab:

The lab is equipped with 60 Pentium IV systems with high speed Internet access. Students and Faculty can download IEEE Journals and browse the Internet This facility available for 12 hours i.e. from 9.00 a.m. to 9.00 p.m.

Central e-Class Room:

e-Class room has been established in the main building of the university college of engineering. This has a maximum seating capacity of 120, can meet the following needs of the college.

1. Technical Conferences/Seminars/Symposiums
2. Video Conferencing
3. Main E-Class Room with Audio & Video streaming facility to broadcast ongoing programmes in the respective e-class rooms of the Departments Workshops
4. Guest Lectures, Faculty meetings
5. Computer based online programs.

Facilities:

Following facilities are available in the e-Class room

1. A roof mounted LCD projector with Pentium 4 computer loaded with necessary packages to make all kind of presentations.
2. A 2000 ANSI lumen capacity OHP to make presentations using transparencies.
3. The e-class room is equipped with Internet Connections and T.V Tuner. As a result the audience of e-class room can see the contents internet as well as view the T.V channels displayed on the big screen through the LCD projector.
4. An additional Wi-Fi connectivity is provided in e-class room for Laptops.



5. Sufficient number of electrical points is provided in order to connect any equipment felt necessary.
6. Best quality public address system with a mike on the speaker table, a mike on the podium table, a cordless collar mike and a remote mike with a 500W amplifier are available.

Computer Aided Design (CAD) Centre

CAD lab has been established to cater the computational needs of faculty, research scholar, PG and UG students of this institute. It provides a platform to the students to learn different technical software's taught by experts from industries and faculty.

Cloud Computing Research Lab

The research lab was established in collaboration with M/S Cipher Cloud with the idea of creating computing facilities to enable the students and faculty to engage in research in the area cloud computing. The researchers of the lab work closely with the industry and bring lot of value to the academics.

FUTURE PLANS:

It is envisaged to provide the following facilities in the near future:

- Online Examination
- Voice over IP
- Smart Card System
- Online course in Collaboration with various universities Institutions Universities/Institutions India/abroad
- Setting up of incubation center

Advisory Committee:

Prof. S.Sameen Fatima	Principal, University College Of Engineering Ph: 91 40 27097577
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System Administrators/Programmer:

Mr. N.Venkata Ramana	nallavenkataramana@uceou.edu
Mr. Lanka Phanibhushan	admin_phani@uceou.edu
Mr. M.Rama Krishna Reddy	rkreddymaram@osmania.ac.in
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Dr. P. Naveen Kumar

Additional Director, CCC
e-mail: naveen.gps@gmail.com
Mobile: 9985701254.



CENTRE FOR ENERGY TECHNOLOGY





Advanced Biomass Downdraft Gasifier



Solar Water Heater-Flat Plate Collector



Solar Photovoltaic Modules



CET visit and Training Program



CET visit



Solar Training Kit (TEQIP-II)



CENTRE FOR ENERGY TECHNOLOGY

Tel: 040-27096253 Fax: 040-27097139

E-mail: cetdirector@gmail.com

Centre for Energy Technology at University College of Engineering, Osmania University, Hyderabad was established during November 1997 with the objective of promoting New and Renewable Sources of Energy. Energy is a vital input for economic and social development. Growing concern on the depletion of fossil fuel reserves and detrimental effects of conventional energy sources on environment makes it imperative to maximize the use of renewable energy sources which are economically viable and environmentally friendly. The Centre aims at development and popularization such technologies.

Staff

Specialization/Research Interests

Director

Dr.NarsimhuluSanke, Ph.D
Assistant Professor
Mech.Engg . Dept

Biomass Energy,
New and Renewable Energy Sources
Turbomachinery,
Software Programming Development

Honorary Advisor

Dr.D.N.Reddy, Ph.D
(Founder Director, CET)
(Former Vice-Chancellor, JNTU-H)

Non-Conventional Energy Sources
(NCES), Heat Power Thermal Engg,
Turbomachinery

Senior Advisers

Dr.R.P.Gupta, Ph.D
(Former AGM, R&D, BHEL)

Wind Energy,
Solar Energy Technologies

K.Basu
(Former AGM R&D, BHEL)

Clean Coal Technologies, Biomass

Faculty Associated

Dr.M.V.Ramana Murthy, Ph.D
Associate Professor of Mech.Engg.

Heat Transfer, Thermal Engineering

V.UmaMaheswar, M.E.
Associate Professor of Mech.Engg.

Turbomachinery, Thermal Engineering



Main Activities

- To undertake research and development projects in the field of Solar, Thermal/Solar Photovoltaic, Wind Energy, Biomass Energy, Mini-Micro Hydel, Clean Coal Technologies and Ocean Energy Technologies.
- Design of Energy efficient systems for industrial sector.
- To identify the technology gap between developed and developing countries in the Energy Sector and suggest appropriate measures.
- To undertake joint projects for technology development with R&D industry and Government Agencies.
- Programme for Energy Audit and Energy Conservation Studies.
- Biomass Production, Utilization and Conversion Technologies.
- To undertake design and commissioning of Wind Power Plant and Optimization studies.
- Identification, planning and Implementation of Rural Energy Programmes.
- To undertake R&D projects in the area of environmentally and provide advice to industry begin Clean Coal Technologies with IGCC, CFBC.
- Preparation of detailed project reports and plant specification.
- Organization workshops, training programmes, seminars, symposia and conferences.

Educational Programmes:

Centre proposes to offer following courses for University / College students:

- Advanced Energy Systems, Biomass Gasification / Combustion
- Clean Coal Technologies and CDM
- Economic of energy, Energy and Environment, Energy efficient systems
- Energy for rural development
- Energy management / Energy conservation
- Energy resources and utilization
- Power Plant performance monitoring and testing
- Renewable energy systems, Role of energy in contemporary society
- Sources and uses of electricity
- Thermal Energy Storage and Recovery,
- Waste Heat Recovery and Co-Generation

Number of projects completed by the students for B.E., M.E., Ph.D degree based on Alternative Energy Systems in the Centre for Energy Technology, OU (upto June 2016)

- Number of Ph.D : 3 (2 Completed and 1 on-going)
- Number of M.E dissertations : 46(Completed) + 2 (on-going)
- Number of B.E Projects : 16 (Completed)
- Sponsored Projects : 8 (Completed)

**M.E / M.Tech Projects (Dissertations) Completed for the Year 2015-2016**

- 1. Enhancing the flow distribution of water in solar flat plate collector using CFD**
GirishnagKantamneni, 1005-13-745320, 2015
- 2. Design and CFD analysis of a compressor wheel and turbine wheel of a turbocharger**
Vigneshwar N 1005-13-745321, 2015
- 3. Design and Optimization of Winglet angles for Horizontal Axis Wind Turbine**
Ali SalhSawadi, 1005-13-745323, 2015
- 4. Heat Transfer Analysis of Flat Plate Solar Collector with Helical Fins.**
Mohammed Saad Abbas, 1005-13-745324, 2015
- 5. Conjugate heat transfer study of a typical HP turbine casing**
M.Neeharika, 1005-12-750306, 2015

Publications in Journals/Conferences

1. NarsimhuluSanke, Mohammed MohsinShkair, "*Heat Transfer Analysis of a Riser Tube in a Flat Plate Collector with Fins*" International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR), ISSN 2348-4845, Volume No:2, Issue No:7 (July 2015), pp 163-167.
2. NarsimhuluSanke, Ali SalhSawadi, "*CFD Analysis of Winglets for Horizontal Axis Wind Turbine*", International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR), ISSN 2348-4845, Volume No:2, Issue No:7 (July 2015), pp 174-179.
3. Vigneshwar N, NarsimhuluSanke, "*Efficiency Estimation of the Turbocharger Compressor Wheel*", International Journal of Scientific & Engineering Research (IJSER), ISSN 2229-5518, Volume 6, Issue 8 (August-2015), pp 195-198.

Communication Address**DR.NARSIMHULU SANKE**

Director

Centre for Energy Technology

University College of Engineering (Autonomous)

Osmania University

Hyderabad – 500007, India

Tel. No: 040-27096253

Email: cetdirector@gmail.com



GENERAL FACILITIES

University Health Centre:

The University has a Health Centre located near the Arts College which caters to the needs of student and staff of Osmania University. It is open from 9:00 am to 12:30 pm and from 4:00 pm to 6:00 pm on all working days. Working hours on public holidays and second Saturdays are from 9:00 am to 12:30 pm only. It is closed on Sundays.

SBH Extension Counter :

The State Bank of Hyderabad Extension Counter in the College premises works from 10:30 am to 4:00 pm on all working days, and from 10:30 am to 01:00 pm on Saturdays. In addition to rendering the normal services of any bank, the Extension Counter accepts fees, including exam fee, drafts etc. on behalf of the University. This counter is under renovation so as to give better facilities.

Canteen:

The College Canteen caters to the needs of students and staff, and is open from 9:00 am to 7:00 pm on all working days.

STUDENTS ACTIVITIES CENTRE

The University College of Engineering has created a model facility in the name of Students Activities Centre in the premises of the College adjacent to Sports Complex. This is a kind of facility normally provided in IITs .

Indoor games like caroms, chess, etc., are provided as a recreational activity for students to relax during free time apart from providing few sports magazines.

AUDIO-VISUAL LABORATORY

An Audiovisual Laboratory has been developed in the main building of the University College of Engineering. This laboratory with a maximum seating capacity of seventy two, can meet the following needs of the college:

1. Technical Conferences / Seminars / Symposiums
2. Workshops
3. Guest lectures
4. Faculty meetings
5. Computer based online programmes

**Facilities:**

Following facilities are available in the audiovisual laboratory:

1. A roof mounted LCD projector with P3 Pentium Computer loaded with necessary software packages to make all kinds of presentations.
2. A 2000 ANSI lumen capacity OHP to make presentations using transparencies.
3. The laboratory is equipped with Internet connection and T.V.tuner. As a result the audience of the laboratory can see the contents of internet as well as view the T.V. channels displayed on the big screen through the LCD projector.
4. Sufficient number of electrical points are provided in order to connect any equipment felt necessary.
5. Best quality public address system with a mike on the speaker table, a mike on the podium table, a cordless collar mike and a remote mike with a 200W amplifier are available.

All seats meant for the participants are equipped with attached writing pads. The writing needs of the speakers on the dias are taken care by the 12'x6' size white board, provided behind the podium. The laboratory is provided with a laser pointer and a manual pointer to facilitate presentations. The comfort of the occupants is taken care in a better way with three numbers of 2.0T capacity room air-conditioners. Concealed lighting, wiring, audio/visual equipment are best in this line of activity. The fire fighting equipment, emergency lamps and the generator connection provided would only enhance the glory and can meet any/all exigencies.



AWARDS & SCHOLARSHIPS

A number of scholarships are available that are donated by different agencies, including the Government, Private Establishments and Trusts. Detailed information concerning these scholarships will be published from time to time. Some scholarships are offered by the State Government for students coming from their respective states. The Government of India also has a few nominations.

Following Gold Medals/Cash Awards/Scholarships are awarded to the students.

Gold Medals (Academic Year 2014-2015)

1. Sri K. Ramaswamy Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Civil Engineering).
Ms. Amulya Devi Chiluveru [100511732002]
2. MC Consulting Engineer Pvt. Ltd. Gold Medal: To be awarded to student of B.E. Civil Engineering course 4/4 Year student for Best outgoing.
Ms. Amulya Devi Chiluveru [100511732002]
3. 1978-79 Electrical Engineering Batch Alumni Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Electrical & Electronics Engineering).
Ms. Ketharaju Shivani [100511734048]
4. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Electrical & Electronics Engineering).
Ms. Ketharaju Shivani [100511734048]
5. Mr. Panthulu Pandari Gold Medal: To be awarded to topper among 10 students B.E. (E.E.E.) whose parental income is least.
Mr. Gurijala Shashikumar [100511734046]
6. Elico D V S Raju Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Electronics & Communication Engineering).
Ms. Annareddy Rajitha [100511735031]
7. Biomedical Instrumentation Centre Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Bio Medical Engineering).
Ms. Vanimisetty L N V Sreeratna Manjusha [100511731026]
8. Prof. Abid Ali Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Mechanical Engineering).
Mr. Chandu Harish M [100511736007]



9. Late Sri S. Parvath Reddy (Tahsildar, Retd.) Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. (Mechanical Engineering).
Ms. Dasari Deepika [100511736008]
10. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Computer Science & Engineering).
Ms. M V Saranya [100511733043]

Cash Awards (Academic Year 2014-2015)

6. Meenakshi Balan and Krishna Swamy Balan Cash Award of Rs. 9,000/- for Over All Academic Excellence.
Ms. Ketharaju Shivani [100511734048]
7. Smt. Kakarala Chittamma mother of Prof. Kakarala Subba Rao Cash Award of Rs. 9,000/- to be given to one of the meritorious students of B.E. (E.C.E.) up to Second Year who secured position within 10 Ranks and whose parental income is least.
Mr. Kona Karthik [100513735016]
8. Sonikar Scholarship Cash Award of Rs. 8,000/- to be given to one of the meritorious students of B.E. (Mechanical Engg.) First Year who secured position with in 10 Ranks and whose parental income is least.
Ms. Mantena Sohila [100514736048]
9. OMEGA-78 (Osmania Mechanical Engg. Graduated Association-78) Cash Award of Rs. 8,000/- "Topper Award to OU Campus" to be given to highest scorer in B.E. Mechanical 1st year.
Ms. J Vani Sumohitha [100514736028]
10. Alumni 1978 Batch Electrical Engineering Cash Award of Rs. 8,000/- : to be awarded "B.E. (E.E.E.) First Year Topper"
Ms. Marru Nikhitha [100514734051]
11. Alumni 1979-83 Batch Electrical Engineering Cash Award of Rs. 8,000/- : to be awarded B.E. (E.E.E.) "Second & Third Overall Toppers"
1. Ms. Manchikanti Geetha [100511734010]
2. Mr. Kandhakatla Bharadwaj [100511734005]
12. Alumni 1979-83 Batch Electrical Engineering Cash Award of Rs. 8,000/- : to be awarded "B.E. (E.E.E.) "First & Second Toppers in Third Year"
1. Ms. Donthula Sindhuja [100512734046]
2. Mr. Pabbathi Akshay [100512734003]



13. Smt. Utpal Sharma mother of Prof. Dhanvantri Cash Award; of Rs. 8,000/- to be awarded every year to the Best Project of the B.E. (E.E.E.).
1. Mr. Gunavanth Sandeep Kumar [100511734041]
 2. Ms. Ketharaju Shivani [100511734048]
 3. Ms. K Spandana [100511734050]
 4. Ms. Penchala Sreshta [100511734051]
 5. Mr. Kanduri Vamshi [100511734055]
14. Prof. N. Waikuntham Cash Award in memory of his parents Late. Mr. N. Nagaiah & Smt. N. Rajya Laxmi of Rs. 8,000/- to be given to the Highest scorer in the “Soil Mechanics” (a subject in III/IV - II-Semester). If the students score same marks, and that one of them happens to be a Girl Student, the Girl Student be given the Award otherwise Award may be shared between the students.
- Ms. Kanna Navatha [100512732021]
15. Sri Shanti Subramanyam Merit Award of Rs. 5,000/- to be awarded every year to the “Best Third Year B.E. (ECE) Girl Student”.
- Ms. Jammi Sanjana [100512735032]
16. Prof. AVRS Sarma and Mr. A Suryanarayana Murthy Cash award of Rs. 5,000/- to be given to the student of B.E. (E.E.E.) who secures highest marks in all “Mathematics” Papers put together.
- Ms. Manchikanti Geetha [100511734010]
17. Prof. Abid Ali Memorial Scholarship of Rs. 15,000/- each to be given to a meritorious student of 1st year M.E. (Mech. Engg.) of the following specializations.
- i. Ms. Bandi Sowjanya [100514745107] : Production Engineering
 - ii. a) Mr. Oggu Naga Raju [100514745203] : Automation & Robotics
 - b) Mr. Sajid Ali [100514745212] : Automation & Robotics
 - iii. Ms. Annam Sharadha [100514745314] : Turbo Machinery
18. OMEGA-78 (Osmania Mechanical Engg. Graduated Association-78) Cash Award of Rs. 8,000/- “Achieving excellence in academics [year 2013-2014”, B.E. Mechanical 1st year.]
- Ms. Mekala Veda Samhitha [100512736058]

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FACULTY-ADMINISTRATION INTERACTION

The teaching faculty of all Departments of the College meet on the first Monday of the month to discuss matters of common interest. The administrative staff of the college is encouraged to attend these meetings, to enable discussion of pending issues, if any, of members of the College to be resolved on the spot. These meetings provide an excellent opportunity for both the administrative and the teaching staff to interact with each other and appreciate each other's problems.

STUDENT-TEACHER INTERACTION

The College encourages students to come into close contact with faculty members. There are student counsellors in all engineering departments to advise students on academic and other matters. Each engineering department has its own Professional Association, to enable students to learn more about the engineering profession and what is expected of them in real life. Guest lectures and visits to industries are arranged by these professional associations.

There is a College Council consisting of students and teachers nominated by the Principal under his Chairpersonship. The council discusses student problems, and suggests solutions to them. Informal contact between students and teachers is also encouraged. Further for the readressal of the student's problems there is a Student Affairs Committee headed by Senior Professor of the College.

PARENT-TEACHER INTERACTION

The college conducts Parent-Teachers meet every year and invites the suggestions for improvements of the facilities, if any.

STUDENT CAMPUS LIFE

For all-round development of one's personality, students are encouraged to participate in co-curricular and extra-curricular activities. The students of this college are active in promoting a healthy and constructive atmosphere all around the campus.

To unearth hidden talents in students, the Students have a number of clubs, such as Sports, Literary, Photography, Cultural and Science and Technology. These clubs organize competitions at Inter-college and Inter-



university levels. The students of this College have won many prizes, both at college and national levels.

Our students actively participate in the N.S.S., Social Forestry and N.C.C. programmes. Engineering Hostels I, II and III situated on the campus, are in close proximity to the College.

Each hostel has a warden who is a member of the teaching staff of the college. Girl students are provided accommodation in a separate Girl's Hostel. Each Hostel has one or more Common Rooms, a TV Room and a Reading Room. There are facilities for Indoor Games such as Table-Tennis, Chess, Carom, etc. Hosteller can also make use of the Gymnasium, Cricket, Football, Hockey fields and the Swimming Pool.



INFRASTRUCTURE OFFICE

Telefax :- 040-27072201

directorinfrastructureuceou@gmail.com

PREAMBLE

The Infrastructure Cell, UCE was established in the year 1995-96 for the purpose of improving and developing the infrastructure facilities and maintenance, for all the departments in the premises of University College of Engineering, Osmania University. It is headed by the Special Officer (Infrastructure) and supported by Supervisor to look after the routine & Regular works of the Infrastructure development in the College. It is also Executing construction works such as minor construction work, compound walls, and maintenance works in the College premises including hostels and all the buildings of the College. .

Contact Officials:

Mrs. K.L. Radhika

Special Officer (Infrastructure),
University College of Engineering, OU.
radhikaou@yahoo.com



ALUMNI ASSOCIATION

Email: www.uceouaa@gmail.com

Ph. No: 040-27096613

Welcome to all the Freshman's !!!

The Alumni Association congratulates all the Freshman's on their recent success in the Engineering Entrance Examination and welcomes them with open arms to the most serene and scenic campus of the University College of Engineering, Osmania University. The College has the distinction of being the one of the oldest in India and the biggest among the Engineering Colleges of the State of Telangana. It was the 6th Engineering College to be established in the whole of British India.

The one thing common that current students and alumni share is that we sought access to education at a first class institution. While the demographics and the physical structures of College's campuses continue to change, the foundation of excellence upon which this great institution was built remains the same.

This is an exciting and transformative time in every freshman's life. The Association wishes all the freshmen a great life ahead and we are sure it will be great fun. Above all, we encourage the freshmen to take full advantage of the association's programs to make new friends, make informed career choices and last but not the least cherish and strengthen the rich heritage and vast history of this Institution.

The Alumni Association of University College of Engineering, OU

The Alumni Association of University College of Engineering, OU with more than 9000 registered members was formed in 1998. In April, 2015, Prof. S. Sameen Fatima , Principal, OUCE constituted revival Committee consisting of 16 members to reactivate and strengthen alumni association. The Revival Committee defined the vision and suggested changing the by-laws to institutionalize the practices.

Starting with the launch of the official Alumni website, www.oucealumni.org, a successful general body meeting was conducted subsequently leading to elections. The first officially elected executive committee was formed on 17th September, 2015. The key goals as defined by the newly formed body include :

- 1) Streamlining all processes so as to achieve all the objectives.
- 2) Raising a corpus fund of Rs.2CR and spend only the interest generated towards the operations of the association.
- 3) Conduct the Global Alumni meet on the last Sunday of December every year.

**The core objectives of the Alumni Association are:**

Alumni Association of University College of Engineering, OU is a not for profit organization with a soul aim of providing a platform for alumni to come together and support the efforts of College of Engineering in establishing itself as a world class institution. The spirit of the organization is to galvanize the alumni by rejuvenating the memories of their association with OUCE and interacting on a continuous basis with the other alumnus, students and faculty.

The association works with the College of Engineering, University, Faculty and Students to

- Provide a platform for the alumni, foster alumni pride and enhance the reputation of OUCE.
- Enrich the emotional connect among the students, faculty and alumni.
- Extend maximum help to the college.
- Execute special projects: Buildings, Technical Projects, Seminars etc.
- Support to students through Scholarship, Research funding.
- Institute awards for meritorious performance for students.
- Awards for the alumni for their contribution to the college and the society.
- Invoke the spirit of innovation among the students leading to patents.

The Activities undertaken by the Association for the Benefit of the Students are:

- Global Alumni Meet (GAM)
- Strategic Planning SWOT and TNA
- Students Scholarships and Research Funding
- Official Alumni Portal
- Technology Business Incubator
- Career Guidance and Support
- Official E Mail ID Rollout
- Innovation and Patenting
- Industry Interaction
- Speaker Series and Workshops
- Student Club Launch
- Launch of Chapters
- Alumni Reunions and Social Events

For further details please contact

Mr. R. V. Rammohan Rao

President

Dr. D. Vijay Kumar

General Secretary

Alumni Association University College of Engineering, Osmania University
Hyderabad – 500007

E-Mail: gensec@oucealumni.org

Website: <http://www.oucealumni.org>

Phone: +91 40 27096613

Mobile: +91 9490946673



HOSTEL ADMINISTRATION

Ph. No. 040-27682325

University College of Engineering (A), O.U., has Four (04) Boys Hostels Namely Kinnera Hostel (ECH-I), New Kinnera Hostel, Ganga Hostel and Swarnamukhi Hostel (ECH-II). BE first year & final year students and all the Three years MCA students are accommodated in Kinnera Hostel (ECH-I) and New Kinnera Hostel, whereas BE Second & Third year students are placed at Ganga Hostel. The Swarnamukhi Hostel is meant exclusively for M.E. / M.Tech. Students. We have One (1) Newly Constructed Girls Hostel for all the Engineering and Technology Girl students. All other M.E./M.Tech./MCA Girl students can seek admission in the Girls Hostel situated on the campus near the University Administrative Building.

The following faculty members are the administrative officers for the Hostels and Messes:

Name	Designation	Phone No.
Prof. S. Sameen Fatima	Principal, UCE, OU	9848519860
Prof. M. Kumar	Vice Principal, UCE, OU	9849411656
Dr. B. Rajendra Naik Asst. Prof. Dept. of ECE	Addl. Chief Warden	9441222226
Dr. M.Manjula Asso. Prof. Dept. of EEE	Asst. Chief Warden Girls Hostel & Mess	9948915758
Dr. B. Hadya Asst. Prof. Dept. of MED	Mess Warden Kinnera Hostel (ECH-I)	9440349195
Mr.D.Rajashekar Reddy Asst. Prof. Dept. of CED	Hostel Warden Kinnera Hostel	9493190672
Mr.Md.Misbahuddin Asst. Prof. Dept. of ECE	Hostel Warden Ganga Hostel	9247184538
Dr.L.Nirmala Devi Asst. Prof. Dept. of ECE	General Warden, Girls Hostel	9949513490
Dr.V.B.Narasimaha Asst. Prof. Dept. of CSE	Hostel Warden Swarnamukhi Hostel	9440289828
Mr. M.Srinivas Asst. Prof. Dept. of BME	Mess Warden Ganga Hostel	9703063245
Smt. G.V. Nagalakshmi Asst. Prof. Dept. of EE	Mess Warden Girls Hostel	9492047114

Name	Designation	Phone No.
Dr. S. Hari Singh Naik	Chief Warden, O.U	27682274
Prof. P. LaxmiNarayana	Dean, Student Affairs, O.U	27682250
Dr. E. Sujatha	Public Relation Officer, O.U	27682259
Mr. J. Devi Das	S.E (Construction)	27682270
Mr. Ramulu	D. E. E	27682259
Mr. Venkata Ramana	Asst. Engg	27682295
Dr. B. Sathaiah	I/C Chief Medical Officer	27682278
O.U Ambulance		27682351



Name	Designation	Phone No.
O.U Police Station		27853570/ 9490616377/ 9490616738

Emergency Phone Numbers

Osmania General Hospital	:	24600121
Gandhi Hospital	:	27702222
Ambulance	:	27562314
Fire Station	:	55693521

Organisation of Hostels & Messes

Hostels & Messes are under the overall supervision of the Principal. Who is assisted by Additional Chief Warden, Assistant Chief Warden and a team of Wardens (Hostels and Messes).

Each hostel is directly under the control of the warden (Hostel & Mess) who is the faculty member of the University. The Additional Chief Warden's Office is located in the College main building, **Room. No. 143**.

I. Admission and allotment of Accommodation

- Admission into the hostels will be made every year.
- No Admission without accommodation is permissible.
- Students who submit hostel admission form will be consider for admission into Hostel.
- Admission in each hostel will be made strictly according to the actual accommodation available.
- First priority for admission to hostels will be given to SC & ST students from districts based on distance from Hyderabad.
- Second priority for admission to hostels will be given to LBC & EPP students and other students.
- Students seeking SC/ST/LBC/EBC/Minority Scholarship are required to apply for scholarship through online.
- Application for hostel admission must be submitted in person.
- No guarantee on hostel admission is given.
- The allottees must display their names on the door.
- Hostel Admission will be given as per availability of accommodation.
- If any boarder creates obstruction in hostel admission process he will not be allotted hostel room.

II. While residing in the Hostel comply with the following:

- No admission without accommodation is permissible.
- No exemption from payment of Establishment charges is permitted till the admission is cancelled and clearance form is submitted.



- No private servants are allowed to work in the Hostels.
- The Service of watchman on duty should not be utilised for the personal work by the Boarders.
- Unauthorised boarders will endanger conviction under section - 447,448 of I.P.C.
- Allotment of rooms will be done by the concerned Hostel Warden as per the rules of Hostel admissions.
- The University shall not be responsible for any theft, loss and damage to the personal belongings of Boarders.
- The Electric Heaters, Stoves, Iron and other appliances are strictly prohibited, Boarders found violating rules will be penalised.
- Problems of the boarders should be brought to the notice of the higher authorities through the Hostel Clerk/Wardens concerned in WRITING.
- If any unauthorized boarder is found in the room the authorised boarder's admission will be cancelled immediately.
- Residents should strictly avoid any arguments with employees. Any complaint against the employees should be made to the Hostel Clerks or Wardens concerned in WRITING.
- Each resident-Boarder shall be responsible for the cleanliness of the surroundings/room.
- Boarders shall switch off the fans and lights while they are away.
- The service of hostel employees should not be utilised by the residents for personal work.
- No exemption from payment of Hostel & Mess charges is permitted till the admission is cancelled and clearance form is submitted.
- Hostel dues shall be paid regularly; unless the Hostel dues are cleared the hostel admission will not be renewed.
- The mess will be closed for a period not exceeding two months during the annual vacation.
- All dishes shall be served and consumed by boarders only in the Dining Hall.

Note: Mess Timings

BREAKFAST	7.30 A.M	to	9.00 A.M
LUNCH	12.30 Noon	to	2.00 P.M
DINNER	7.00 P.M	to	9.00 P.M

- The Mess charges will be notified by 10th of the following month. All the resident Boarders shall pay the hostel and mess dues before 20th of each month. If the dues are not paid by 20th of the month their mess facility will be stopped.
- Do not keep excess cash in your room keep most of it either in the Post Office or Bank. Lock the door of your room securely. Do not leave your valuables on the table near the window.



- Do not stay and go far out into the fields. Do not accompany any stranger.
- While in the Hostel be in proper dress and when you go out as well.
- Observe all the Hostel Rules as well as the College rules without fail.
- Collect Hostel Identity Card and Mess Card at the time of admission in the Hostel.
- Maintain cordial and harmonious relations with roommates and other boarders of the Hostel.
- Whenever the Boarder does not want to stay in the hostel he has to obtain clearance certificate from the hostel (otherwise the room rent will be charged).
- Mess bill will be uniform for vegetarians and non-vegetarians. The minimum bill shall be charged for full month uniformly.
- Parents should see their Wards pay the mess bills regularly (Mess expenditure) within a fortnight of notification, failing which his/her name will be cancelled from hostel admission.
Note: The Boarders/ Parents needs any clarification may contact Addl. Chief Warden/ Wardens Concerned.

Rules and Regulations of Hostel

- Parents/Guardians/Guests/ Friends of the Boarders can visit only during the stipulated timings given below:-
 - **Weekdays: 4.00 PM to 7.00 PM**
 - **and Public holidays: 10.00 AM to 1.00 PM**
 - **PM to 7.00 PM**
- Resident boarders are advised to be in the hostel by 7.00 pm. The warden may, however, at her discretion, permit a boarder to return but not later than 10.00 pm without fail.
- No resident boarders shall be permitted to proceed on leave without obtaining the permission of the warden in the prescribed form.
- The Boarders, who come to hostel after 10.00 PM and leave the hostel premises after 10.00 PM without prior permission. Appropriate action will be taken against them, who do not take prior permission.
- Visitors are allowed in the prescribed timings and shall not be allowed into the rooms.



SCHOLARSHIP HOLDERS MAY PLEASE NOTE

1. The Boarders, who want to availing scholarship facilities should apply to the concerned authorities. It may be noted that scholarship forms are to be submitted online to the concerned authority.
2. Boarders who are provided Mess and Hostel facility, in anticipation of receipt of amount from Government, will have to pay the entire dues, if the scholarship applications are rejected by the Government / Sanctioning authorities.
3. The Boarders, who are scholarship holders, should renew their admission into Hostel at the end of each academic year failing which their Hostel and Mess facility will be stopped.
4. All Scholarships are sanctioned by the Government. The College Office or the University is not responsible if the Government/ any funding agency rejects any scholarship applications.

OTHER IMPORTANT TELEPHONE NUMBERS

Head, BME Department	:27090083 / 27682233
Head, Civil Engg. Department	:27097125 / 27682276
Head, CSE Department	:27097577 / 27682343
Head, Electrical Engg. Department	:27098628 / 7682382
Head, ECE Department	:27098213 / 27682277
Head, Mechanical Engg. Department	:27097346 27682317 / 27682287
Public Relation Officer, UCE	:27097577 / 27682317
University Health Centre, OU Campus	:27682278
Night Duty Medical Officer	:27682351



**RAGGING IS UNCIVILISED BESIDES BEING AN OFFENCE.
RAGGING WITHIN OR OUT SIDE ANY EDUCATIONAL INSTITUTIONS IS
PROHIBITED AS PER THE GOVT.OF.A.P ACT NO 26 OF 1997.**

SECTION 4: PENALTY FOR RAGGING

Whoever with intension of causing or with the knowledge that he/she is likely by such act to cause ragging, commits or abets ragging and here by:

- i) Teases or embarrasses or humiliates a student shall be punished with imprisonment for a term which may extend to six months or with the fine which may extend to one thousand rupees or with both; or
- ii) Assaults or uses criminal force to or criminally intimidates student shall be punished with imprisonment for a term which may extend to one year or with fine which may extend to two thousand rupees or both; or
- iii) Wrongfully restrains or wrongfully confines or causes hurt to as student shall be punished with imprisonment for a term which may extend to two years or with fine which may extend to five thousand rupees or both; or
- iv) Causes grievous hurt to or kidnaps or abducts or rapes or commits unnatural offence with a student shall be punished with imprisonment for a term which may extend to five years and with fine which may extend to ten thousand rupees; or
- v) Causes death or abets suicide shall be punished with imprisonment for life or with imprisonment for a term which may extend to ten years and with a fine which may extend to fifty thousand rupees.

DISMISSAL OF STUDENT

- VI) A student convicted of an offence under section 4 above punished with imprisonment for a term shall be dismissed from the college
- VII) A student convicted of an offence under section 4 above punished with imprisonment for a term of more than six months shall not be admitted in any other Educational institutions.

**Registrar
Osmania University**



OSMANIA UNIVERSITY
HYDERABAD – 500 007

WHAT CONSTITUTES RAGGING?

As per the Telangana State Prohibition of Ragging Act, 1997.

“Ragging” means doing an act which causes or is likely to cause insult or annoyance or fear or apprehension or threat or intimidation or outrage of modesty or injury to a student.

It includes:-

- Mental/Physical/Sexual abuse.
- Verbal abuse.
- Indecent behavior.
- Criminal intimidation/Wrongful restraint.
- Undermining human dignity
- Financial exploitation/ Extortion
- Use of force
- Consumption of Alcohol/ Intoxication
- Drug Trafficking
- Rash and negligent driving etc.

**RAGGING IN ANY FORM IS PUNISHABLE.
DO REPORT INCIDENTS OF RAGGING.**

The offence of the ragging is not only punishable under section 4 of Telangana State Prohibition of Ragging Act 1997 but also under various provisions of the IPC, 1860 (Act 45 of 1860) and is a Cognizable Offence (Arrest without Warrant)

Join Hands to make the College Campus Ragging Free

Registrar,
Osmania University



**OSMANIA UNIVERSITY
HYDERABAD – 500 007**

CONSEQUENCES OF RAGGING

As per the Supreme Court Orders, the following actions will be taken on those students who indulge in ragging :-

1. Withholdings of Scholarships/ Fellowships / Results.
2. Debarring from Representation in Events and Appearing for Tests/ Examinations.
3. Declaring them ineligible for any other degrees.
4. Denial of admission to any other Institutions.
5. Withdrawing Benefits like Travel Concessions and Campus selections.
6. Suspension or Expulsion from Hostel or Mess or College selections.
7. Cancellation or Expulsion from Hostels or Mess or College.
8. Liability to pay a fine up to Rs. 2.5 Lakhs.
9. Imprisonment up to 10 years.
10. Registration of FIR against the accused and Prosecute under the Indian Penal Code, 1860.

Important Note:-

If any student is found indulging in ragging, it may be brought to the notice of Member/Coordinator/Chairperson of the ANTI RAGGING COMMITTEE of the College immediately

Registrar,
Osmania University

