HANDBOOK



2019-2020



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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, Audit&Accreditation cell			
7.	CE/ CED	Civil Engineering Depaerment			
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			
	ECE	Electronics & Communication Engineering			
	ECTA	Engineering CollegeTeachers Association			
16.	EDC	Entrepreneurship Development Cell			
17.	EE/ EED	Electrical Engineering Depaerment			
	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			
	TDC	Technology Development Center			
36.	TEQIP	Technical Education Quality Improvement Programme			
37.	UCE	University College of Engineering			
	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 and 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**programmes and twenty five**postgraduate**programmes which are aimed to inculcate spirit of inquiry, stimulate the power of thinking, bestow both analytical and experimental abilities, and elicit interest in research. The programmes 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 Programmes: 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
1 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 15 % 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
		Structural Engineering	1961	25
		Water Resources Engineering	1961	10
	Civil	Geotechnical Engineering	1961	10
2	Engineering	Construction Engg. and Management	1961	15
	Engineering	Infrastructure Engineering	2007	15
		Transportation Engineering	2008	15
		Mining Engineering	2018	18
	Computer Science	Computer Science & Engineering	1981	20
3	& Engineering	Parallel and Distributed Systems	2007	15
		Embedded Systems&Computing	2013	18
		Digital Systems	1964	13
4	Electronics &	Microwave and Radar Engineering	1964	20
4	Communication Engineering	Systems and Signal Processing	1964	13
		Embedded Systems &VLSI design	2006	13
	Electrical	Industrial Drives and Controls	1966	20
5	Engineering	Power Systems	1966	13
	Engineering	Power Electronics Systems.	2008	15
		Production Engg	1966	18
		Automation & Robotics	1998	13
	Mechanical	Turbo Machinery	1996	20
6	Engineering	Tool Design	2002	32
		CAD/CAM	2001	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	Structural Engineering	1966	20
1	Engineering	Transportation Engineering	2010	15
2	Computer Science & Engineering	Computer Science & Engineering	1991	30
	Electronics &	Digital Systems Engineering	1975	15
3	Communication	Systems and Signal Processing	1975	15
	Engineering	Microwave & Radar Engineering		15
4	Electrical	Inductrial Drives and Controls	1971	15
4	Engineering	Power Systems	1971	15
	Mechanical	Production Engineering	1994	15
5		Automation & Robotics	1994	15
	Engg.	Turbo Machinery	1994	15

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

S.No.			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)	BM Pa Fullt	rt time	CS Part time	Full	F H t	CE Part Full ime ime	Part	CE t Full e time	P H ti	EE Part Full ime ime	M P H	IED Part Full e time	Tota Colle leve	ege
2015	-	-	01	[-	-		05		01	-	-	07	,
2016	-	-	5+	1	1	-		04	-	-	-	-	10)
2017	02	02	40	10	19	16	40	31	33	21	63	12	197	92
2018	-	-	05	5	-	-		07	-	-	-	-	12	!
2019	04	-	42+2*	30	29	39	40+7	*14	33	47	100	37	248+9*	167
Ph.D's Awa	rded													
2014-2015	-	-	2			4		7		1		2	16)
2015-2016	-	-	01	[03	-	-	-	-		03	07	'
2016-2017	-	-	04	1	-	-		02	-	-		09	-	-
2017-2018	-	-	08	01	02	01	01	00	02	00	06	00	19	02
2018-2019	-	-	02	01	03	01	01	02	01	-		06	13	04

NBA Accredited Programmes

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

	nutr orwanie i ogrammes Dib (rum rime)					
S. No.	Courses	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	3Yrs (2018-21)				
5	Electrical Engineering	5Yrs (2013-18)				
6	Mechanical Engineering	5Yrs (2013-18)				

Post Graduate Programmes: M.E/M.Tech (Full-Time)(Applied for Renewal)

S. No.	Courses	Specializations	Accreditation
		Structural Engg.	Applied for Renewal
1	Civil Engineering	Water Resources Engg	Applied for Renewal
		Geotechnical Engineering	Applied for Renewal
2	Computer Science & Engg.	Computer Science&Engg	Applied for Renewal
		Power Systems	Applied for Renewal
3	Electrical Engineering	Industrial Drives and Controls	Applied for Renewal
		Production Engg	Applied for Renewal
4	Mechanical Engineering	Turbo Machinery	Applied for Renewal
		Automation & Robotics	Applied for Renewal
5	Electronics & Communication Engineering	Microwave and Radar Engineering	Applied for Renewal
6	Bio-Medical Engineering	Bio Medical Electronics	Applied for Renewal





Almanac for B.E I & II Semester (All Branches) for the Academic year 2019-2020



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

	B.E. I SEMESTER				
1	Commencement of Instruction	03 August 2019			
2	Three week Induction Program	05-23 August 2019			
3	Independence day	15 August 2019			
4	Commencement of class work	26 August 2019			
5	Annual Academic Awards Function	09 September 2019			
6	Engineers Day	15 September 2019			
7	Dusshara Vacation	7 to 11 October 2019			
8	Recommencement of Instruction	14 October 2019			
9	First Class Tests	16 to 18 October 2019			
10	Submission of Test -I Marks on or before	25 October 2019			
11	Second Class Tests	02 to 04 December 2019			
12	Submission of Test -II Marks on or before	11 December 2019			
13	Last Date of Instruction	14 December 2019			
14	Submission of Sessional (CIE) Marks on or before	19 December r 2019			
15	Preparation Holidays and Practical Examinations	16 -28 December. 2019			
16	Parent-Teacher's Meet	28 th December 219			
17	Theory Examinations (SEE) (Main and	30 December 2019 to 25			
17	Supplementary)	January 2020			
18	Winter Vacation	13 th to 18 th January, 2020			
19	Republic Day	26 January 2019			
	B.E. II SEMESTER				
1	Commencement of Instruction	27 January 2020			
2	Last date for Registration of Elective/Core Subjects	27 to 31 January 2020			
3	Students Technical Symposia	21 to 22 February 2020			
4	Annual Sports Day	29 February 2020			
5	First Class Tests	16 to 18 March 2020			
6	Submission of Test 1 Marks on or before	23 March 2020			
7	Second Class Tests	29 April to 1st May 200			
8	Submission of Test 2 Marks on or before	7 May 2020			
9	Last Date of Instruction	9 May 2020			
10	Summer Vacation for Teaching Faculty(4 weeks)	4 to 30 May 2020			
11	Preparation Holidays, Practical Examinations	11 to 23 May 2020			
12	Submission of Sessional (CIE) Marks on or before	12 May 2020			
13	Theory Examinations (SEE) (Main and Supplementary)	25 May to 13 June 2020			
14	Commencement of Next Academic Year	29 June 2020			





Almanac for B.E III IV, V, VI, VII & VIII Semester (All Branches) for the Academic year 2019-2020



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

S.No	B.E III, V & VII SEMESTERS						
1	On-Line Registration of Elective/Core Subjects &	24 June to 02 July 2019					
	Labs	•					
2	Commencement of Instructions	01 July 2019					
3	Last date for Registration of Elective/Core Subjects	02 July 2019					
4	First Class Test	20 to 23 August 2019					
5	Submission of Test 1 marks on or before	30 August 2019					
6	Annual Academic Awards Function	09 September 2019					
7	Engineers Day	15 September 2019					
8	Second Class Test	30 September to					
		04 October 2019					
9	Dussara Vacation	07 to 11 October 2019					
10	Submission of Test 2 marks on or before	15 October 2019					
11	Last Date of Instruction	19 October 2019					
12	Preparation Holidays & Practical Exams	21October to					
	•	02 November 2019					
13	Submission of Sessional Marks on or before	22 October 2019					
14	Semester End (Theory) Examinations (Main &	04 November to					
	Supplementary)	30 November 2019					
B.E IV, VI & VIII SEMESTERS							
15	On-Line Registration of Elective/Core Subjects &	23 November to					
	Labs	03 December 2019					
16	Commencement of Instructions	02 December 2019					
17	Last date for Registration of Elective/Core	03 December 2019					
18	Parent-Teachers meet	28 December 2019					
19	Winter vacation	13 to 18 January 2020					
20	Recommencement of Instructions	20 January 2020					
21	First Class Test	21 to 24 January 2020					
22	Submission of Test 1 marks on or before	30 January 2020					
23	Students Technical Symposium	21 & 22 February 2020					
24	Annual Sports Day	29 February 2020					
25	Second Class Test	9 to 12 March 2020					
25	Submission of Test 2 marks on or before	17 March 2020					
26	Last Date of Instruction	21 March 2020					
27	Preparation Holidays, Practical Exams & Project Viva-Voce	23 March to 04 April 2020					
28	Submission of Sessional Marks on or before	25 March 2020					
29	Semester End (Theory) Examinations (Main & Supplementary)	06 April to 02 May 2020					
30	Summer Vacation for Teaching Faculty (4 weeks)	04 May to 30 May 2020					
31	Commencement of Next Academic Year	29 June 2020					





Almanac for M.E I& II Semester (All Branches) for the Academic year 2019-2020



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

S.No	I – SEMESTER (Reg & PTPG), III - SE	
1	On line Registration of Subjects	26 to 30 August 2019
2	Commencement of Instruction	26 August 2019
	Engineers Day	15 September 2019
4	Dusshara Vacation	07 to 11 October 2019
5	Recommencement of Instruction	12 October 2019
6	First Class Tests	14 to 16 October 2019
7	Online Submission of Class Test -I Marks on or before	25 October 2019
8	Second Class Tests	5 to 7 December 2019
9	Online Submission of Class Test -II Marks on or before	12 December 2019
10	Last Date of Instruction	13 December 2019
11	Display of Attendance and Online Submission of	17 December 2019
11	Sessional (CIE) Marks on or before	17 December 2019
12	Theory Examinations (SEE)	19 Dec 2019 to 10 Jan 2020
13	Winter Vacation	13 to 18 January 2020
14	Make- up Examinations	17 February to 6 March 2020
	II -SEMESTER (Reg & PTPG), IV -SEMES	
		20 to 25 January 2020
2		20 January 2020
3		21 & 22 February 2020
	1 2	29 February 2020
		02 March 2020
		9 to 11 March 2020
7	ξ , ,	06 May to 01 June 2020
8		8 to 10 June 2020
	Online Submission of Class Test -II Marks on or before	15 June 2020
10	Last Date of Instruction	17 June 2020
11	Display of Attendance and Online Submission of	23 June 2020
	Sessional (CIE) Marks on or before	
12	Theory Examinations	26 June to 11 July 2020
13	Make- up Examinations	10 August to 22 August 2020





Almanac for ME/M.Tech Project Evaluation & Submission for the Academic year 2019-2020 (Regular and Part-Time)



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

Sl. No.	Particulars	III-Semester (Reg) & V-Semester (PTPG)	IV-Semester (Reg) & VI-Semester (PTPG)
1.	On Line Registration	24 June 2019 to 02 July2019	From 14 October 2019 to 21 October 2019
2.	Project Seminar & (Presentation & Evaluation)	30 September to 19 October 2019	
3.	Last date of submission of Draft Dissertation for Internal Viva-Voce Examination		4 May 2020
4.	Internal Viva-Voce Examination		01 - 05 June 2020
5.	Submission of approved thesis by all students for External Evaluation		11 June 2020
6.	Conduct of External Viva-Voce Examination		14 to 20 June 2020
7.	Late Submission & Internal Viva- Voce Examination		05 to 17 July 2020
8.	Conduct of External Viva-Voce Examination (for Late Submission)		24 July 2020 to 06 August 2020
9	Last date of Semester	12 October 2019	



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 (2016-17 to 2021-22).

The UG programme offered by ECE Department is accredited by the NBA Acreditation New Delhi for a period of 3 years w.e.f. June.2018 and UG Programmes 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 NBA re-accriditation is under process. The University is accredited by NAAC with "A" Grade. UCE, 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. UCE, OU 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 programmes in niche areas, iv) introduction of credit based system, and v) substantial increase in internal revenue generation.

The college has successfully completed the phase-II of TEQIP programith a financial assistance of Rs. 12.5 Crores and additional grant of 5 Crores under the best performing institution category. Recentely the institute has been approved as a minor center under QIP for full time PhD programmes. The college has been selected for TEQIP Phase III twinning program with a financial assistance Rs. 7 crores. The college has been granted "Visveswaraya Ph.D scheme for Electronics and IT" for full time PhD program. The GIAN program of MHRD has sanctioned 6programmes in specialized research area to the college.



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Prof. ShivaRaj

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Dr. Raghu,

Department of Technical Education, Telangana State Government Nominee

PRINCIPAL VICE-PRINCIPAL

Prof. Kumar Molugaram Dr. E. Vidya Sagar

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Project Coordinator Prof. Narsimhulu Sanke
Nodal Officer, Academic Prof. M. Gopal Naik
Nodal Officer, Finance Prof. B. Mangu
Nodal Officer, Procurement & MIS Dr. J. Upendar

(GATE Exam College Coordinator)

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Director of EvaluationProf. M. Chandra Sekhar ReddyJoint Director of Evaluation (P.G)Dr. S. V. S. N. D. L. Prasanna

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Dr. D. Ramakrishna

Mr. E. Madhusudhan Raju

HOSTEL COMMITTEE

Chairperson Prof. Kumar Molugaram(Principal)



Vice Chairperson Dr. E. Vidya Sagar (Vice Principal)

Members

All HODs

Addl. Chief Warden & Covnvener Prof. B. Hadya

Asst. Chief Warden Girls Hostel & Mess Prof.K. Saraswathamma General Warden Girls Hostel Dr. N. Susheela

Mess Warden Girls Hostel Dr. B. Sujatha

General Warden Kinnera Hostel Dr. D. Rajashekar Reddy

Mess Warden Kinnera Hostel Mr. D.Suman

General Warden Ganga Hostel Mr. Md. Misbahuddin Mess Warden Ganga Hostel Mr. M.Srinivas General Warden Swarnamukhi Hostel Mr. M.Shyamsunder

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HoD Concerned Co-opted Member Coordinator, 1st year class room complex Co-opted Member

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Association Dr. E.Vidya Sagar, Secretary, ECTA

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Incharge, Starup Cell, UCE OU
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5	Prof. P. V. Sudha	Member	Head, Dept. of CSE	9492754480
6	Prof. G. Mallesham	Member	Head, Dept. of EE	9502133334
7	Prof. P. Chandrasekhar	Member	Head, Dept. of ECE,	9866695963
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11	Y . Rameshwar	Member	Dept. of Maths	8332969470
12	Prof. B. Hadya	Member	Addl. Chief Warden Hostel	9440349195
13	Prof. K. Saraswathamma	Member	Addl. Chief Warden Girls Hostel & Mess	9032714222
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21	Dr. J. Upendar	Member	Public Relation Officer	8500003210
22	Dr. B. Sujatha	Member	Mess Warden, Girls Hostel	9948625313
23	Dr. M. A. Hameed	Member	Placement Officer	9849638102
24	Mr. M. Shyam Sundar	Member	Warden, Swamamukhi Hostel	
25	Mr. Md. Misbahuddin	Member	Warden, Ganga Hostel	9247184538
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28	Mr. S. Somasundaram	Member	Assistant.Registrar	9290444633
29	Dr. P. Damoder	Member	Librarian	9059405311



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34	Mr. M. Sudhanshu					
35	Ms. Vakarnati Smitha		9494474434			
36	Sri. V. Venu Gopal	D	ent Members	8328353917		
37	Sri. N. Venkateshwarlu	Pare	ent Members	9441460100		
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Squad – III (LIBRARY/ SPORTS)

S.No	Name of the Staff	Position	Designation	Tele. No
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Squad – IV (HOSTELS)

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Squad – V (Ist Year – H & S)

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2	Dr. V. Kiran	Member	Asst. Professor	9912959615

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2.	B.E. 3 rd & 4 th Sem.	Mr. K. Harish	9866289232
3.	B.E. 5 th & 6 th Sem.	Mr. D. Suman	8897855138
4.	B.E. 7 th & 8 th Sem.	Mr. M.Srinivas	9703063245
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6.	M.E. (BME) 2 nd Year	Mr. D. Suman	8897855138
II	Civil Engg		
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3.	B.E. 5 th & 6 th Sem.	Mrs. A. Usha Sri	9866248415
4.	B.E. 7 th & 8 th Sem.	Mr. L. Ajay Kumar	9160989555
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9.	M.E. (Transportation Engineering)	Dr. D. Rajashekar Reddy	9493190672
10.	M.E. (Infrastructure Engineering)	Mrs. D. Annapurna	9866832758
11	M.E. (Mining Engineering)	Prof. V. Bhikshma	9949638885
III	CSE		
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82.	Dr. P. Naveen Kumar	Assoc. Prof.	9985701254	naveen.gps@gmail.com	
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84.	Mrs. P. Padma	Asst. Prof.	9985644039	padmadandyala@gmail.com	
85.	Mr. M. Shyam Sunder	Asst. Prof.	9885433203	shyam0406@yahoo.co.in	
86.	Mr. Md. Misbahuddin	Asst. Prof.	9247184538	misbah426@gmail.com	
87.	Dr. A. Bharathi	Asst. Prof.	9032805273	bharathig8@gmail.com	
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91.	Mr. B. Ramesh	Asst.Prof(C)		rams.chanti@gmail.com	
92.	Mr. R. Narendra Reddy		9177765762	rnarendraece@gmail.com	
93.	Mr. G. Kishore Kumar	Asst.Prof(C)		gundati.kishore@gmail.com	
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96.	Dr. Sriram Venkatesh	Professor	9440408333	venkatmech@yahoo.com	
97.	Dr. A. Krishnaiah	Professor	9440834065	kris_arakanti@yahoo.com	
98.	Dr. P. Usha Sri	Professor	9885899584	emailushasri@yahoo.com	
<u> </u>		0.00001	. JULUT		



S.No	Name	Designation	Mobile No.	E-mail ID
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	Dr. K. Saraswathamma	Professor	9032714222	saraswathy@osmania.ac.in
	Dr. Narsimhulu Sanke	Professor	9885415325	nsanke@osmania.ac.in
101		. 5.0		mvramanamurthy
104.	Dr. M.V. Ramana Murthy	Assoc. Prof.	9849323139	@rediffmail.com
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110.	Mrs. T.S.R.V. Padmalatha	Asst. Prof.	9985491524	tsrvpadma@yahoo.com
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				nnluou@gmail.com
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	Mrs. G. Sujatha	Asst. Prof(C)		gujjula.sujatha@gmail.com
	Mrs. V.Sreedevi	Asst. Prof(C)		vsdevi15@gmail.com
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	Dr. Lakshmi Mantha	Asst. Prof(C)		laksrimantha@yahoo.co.in
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	Dr.K.Phaneendra	Asst.Prof.	8919110795	kollujuphaneendra@gmail.com
	Dr.K.Ramesh Babu	Asst.Prof.		
	Dr. Pothu Thirupathi	Asst. Prof(C)	9949325015	thrupathi@gmail.com
135.	Mr. K. Ramalingaiah	Asst. Prof(C)		Kadarirama2@gmail.com
Dept. of Physical Education				
136.	Dr. B. Sunil Kumar (Head)			drbsk.sport@gmail.com
Library				
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138.	Mr. B. Kumar	Library Asst.	9391130091	boyakumar123@yahoo.com



Awards/ Fellowship 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
8.	Best Engg. College Award in the Country by the ISTE	UCE, OU	2003
9.	Sir M.Vishweshvaraiah 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 PhD award from IIT Madras	Prof. A. Krishnaiah Dept. of MED	2006
14.	Best Teacher Award by Government	Prof. A. D. Rajkumar, EED	2007
15.	Prof.S.C.Aiya Memorial IETE Award	Prof. Pandari Pande, Dept. of ECE	2007
16.	ICI: Altra-tech endowment award	Prof. P. Rao, Civil Engineering Dept.	2007
17.	ISTE Anna university National Award	Prof. Pandari Pande, Dept. of ECE	2009
18.	Vishwakarma Award by CIDC, Planning Commision, Govt. of India	Prof VSS Kumar Dept. of CED	2011
19.	M.S.Jain memorial National Award(Best paper) by IGC, India	Prof.Kumar Molugaram Dept. of CED	2012



S.No	Nature of Award	Person/Institute Received	Year of Award
20.	Best Teacher Award by Government of AP	Prof.E. Suresh Kumar	2012
21.	Best Teacher Award by Government of AP	Prof. S. Ramachandram Dept. of CSE	2013
22.	Indian Concrete Institute(APHC)- Ultratech Endowment Award.	Prof. Ravande Kishore Dept. of CED	2013
23.	POSOCO Power System Award	Dr. G. Mallesham Dept. of EED	2013
24.	ISCA Young Engineer Award	Dr. G. Mallesham Dept. of EED	2013
25.	Academic Research Award of excellence by AMSI	CPTIP, MED, UCE, OU	2014
26.	Best Teacher Award- 2014 by Government of Telangana	Dr. P. Satish Kumar Dept. of EED	2014
27.	Award for Research Excellence, From Indo-Global Education Expo & Summit 2014	Dr. P. Satish Kumar Dept. of EED	2014
28.	Best research paper award in Internation conference ACSME- 2014, Bangkok	Prof.M.Kumar Dept. of CED	2014
29.	Global Teacher Role Model Award- 2015	Dr. P. Satish Kumar Dept. of EED	2015
30.	Young Faculty Research Fellowship" under Visvesvaraya Scheme	Dr. B. Rajendra Naik Dept. of ECE	2016
31.	Distinguished Faculty in Engg award by Venus International Foundation,	Prof. M. Gopal Naik Dept. of CED	2017
32.	Best Academician Award by Smart –Infrest – Engineering Services Trust	Prof. V. Bhikshma Dept. of CED	2017
33.	Best Teacher Award- 2017 by Government of Telangana	Prof. S. Sameen Fatima Dept. of CSE	2017
34.	Engineer of the Year -2017 Insttute of Engineers, Telengana Chapter	Prof SriramVenkatesh Dept. of MED	2017
35.	Best Teacher Award- 2018 by Government of Telangana	Prof. M. Kumar Dept. of CED	2018



S.No	Nature of Award	Person/Institute Received	Year of Award
36.	Engineer of the Year-2018 Institute of Engineers, Telengana Chapter	Prof. M. Kumar Dept. of CED	2018

List of Ph.Ds Awarded by UCE, OU for the year 2018-2019

Faculty Name	Student Name	Title of Thesis		
Civil Engineering Deparartment				
	B. Rameshwar Rao	Evaluation of Distributed Water Supply Network Systemand District Metered Area Using Genetic Algorithms and Hydraulic Modelling		
Prof. M. Gopal Naik	Qamar Sultana	Simulation of Reservoir Sedimentation of Sriramsagar Reservoir		
	G. Srinivas	Urban watershed modelling using remotely sensed data and Geographical Information System		
Prof. V. Bhikshma	T.Naveen Kumar	Experimental Investigation on Strength Characteristics and Design Parameters for Fly Ash based Geo Polymer Concrete		
Prof. M. Anjaneya Prasad	M. Satyanarayana	Multi Reservoir Operation - Reliability Study for Hyderabad Water Supply System		
	Mechanical Engine	eering Deparartment		
Mr. P. Venkateswara Rao	Prof. G. Venkata Rao	Numerical simulation studies on a low solidity diffuser with twisted vanes of a centrifugal compressor stage		
Mr. V. Uma Maheshwar	Prof. AM.K. Prasad	Experimental Investigation of Downstream Flow Field in a Linear Turbine Cascade: Effects of Relative Wall Motion & Incidence		
Mr. N. Jeevan Kumar	Prof. P. Ramesh Babu	Delamination Damage propagation Studies of Laminated FRP composite Bonded Joints		
Mr. U. Ashok Kumar	Prof. A.M.K. Prasad	Analysis of polymer composite laminates subjected to Quasi-Static loading		
Mr. G. Sridhar	Prof. P. Ramesh Babu	Distortion Analysis and Minimization stratagem for Machining Monolithic thin walled Components		
Mr. Shankarachar M. Sutar	Prof. P. Ramesh Babu	Vibration and Instability Studies of Elastically restrained Pipe and Carbon Nano tuber Conveying Fluid		
Mr. Syed Azeem Pasha	Prof. P. Ravinder Reddy, Principal, CBIT, HYD Prof. P. Laxminarayana MED, UCE, OU	Electric Discharge Machining Characteristics of FSP Fabricated Metal Matrix Surface Composites		
Mr. D. Srinivas Rao	Y. Krishna DRDL, HYD Prof. A. Krishnaiah MED, UCE, OU	Optimization and Mathematical modeling of cutting parameters & tool geometry for machining aluminum steel work material		



Mr. D. Devaiah	Prof. K. Kishore MED, VEC, HYD Prof. P. Laxminarayana MED, UCE, OU	Optimization of processes parameters in Friction stir welding of Aluminum Alloys
Mrs. K. Hema Latha	Prof. P. Usha Sri Dr. N. Seetharamaiah	Design Development andPerformance Characterization of Mageneto Rheological (MR) Fluid clutch for Automotive Applications
Mr.RajuMuthyala	Prof. A.M.K. Prasad MED, UCE, OU Dr. N. Seetharamaiah MJCET, HYD	Development and Experimental Investigation of MR Fluid Damper Behaviour under Triangular Excitation
Mr. NakkantiSujana Rao	Prof. A.M.K. Prasad Dr. M. Radha Krishna	Dynamics and Elastic Stability of Non- metallic (Polytetrafluoroethylene) bellows expansion joint
Mr. M. Ramulu	Prof. A. Krishnaiah Prof. S. Ramachandram	Investigations on the Development of High Strength and high ductility bulk Nano Materials by severe Plastic Deformation Process



DEPARTMENT OF BIOMEDICAL ENGINEERING





TEACHING FACULTY

Professor Dr. M. Malini (Head) Assistant Professors Mr. D. Suman Mr.M.Srinivas Mr.G.Shravanya Mr.K.E.Ch.Vidyasagar





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 the five years with effect from August 2013. A special appreciation was given by the visiting expert team.

Academic Programmes:

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

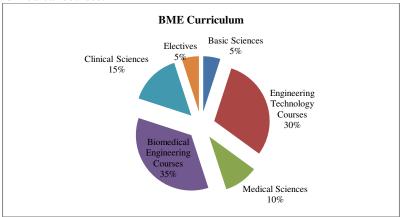
Our Mission:

- > 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

1. Faculty details:

Name and Designation	Areas of Specialization
Dr. M.Malini, Ph.D., MIE., MISTE, LMISOI, MBMESI Professor Chairperson BOS(OU) & Head	Biomedical Signal Processing, Embedded Medical Instrumentation, Biomechanics.
Mr. D.Suman, (Ph.D) MIACSIT, MBMESI Assistant Professor Chairperson BOS(A)	Biomedical Instrumentation, Biomedical Signal Processing, Internet of Things based Medical Applications
Mr. M.Srinivas M.E,(Ph.D) 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.



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

Field	Organizations	
Higher Education	India (IIT's, 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, DI Universities, DEBEL, Many of the universities in abroac offering research positions in Biomedical Engineering.		
Medical Device companies Siemens Medical Ltd., GE healthcare, L & T medical, Phendical, BPL medical, Novartis healthcare, Medisun, Pendical systems, Covedien - Delhi, Medtronic, Baxter, Boscientific, Veol Medical Technologies, vTitan Corporation Ltd, Relisys Medical Devices Limited, MediVed Innovations of		
Hospitals Gandhi hospital, Kamineni hospital, Global hospital Apollo, hosipital, Mediciti, NIMS, Yashoda hospital, Vasan Ey. Oxygen hospital, rainbow children's hospital, Innova ho Galaxy hospital etc.		
Public Sector in India	HSCC, NIMHANS, HILL, DEBEL, ESI Govt. Hospitals, etc.	
Knowledge Process Outsourcing based companies & IPR related field	Evalue 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 of corporate hospitals. 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 is awarded with patent for "cryoshoe" RF renal ablation system.

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& III) 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 engaged 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. Driver Drowsiness Detection and alerting system.
- 5. Hyperthermia application of Nano materials for cancer therapy.
- 6. Non invasive beat to beat BP monitoring system by using PWTT.
- 7. Wireless Sensor Network.
- 8. Brain Computer Interfacing.
- 9. 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	Name of Principal Investigator	Funding Agency	From	То	Title of the Project	Grant (Rs. in Lakhs)
1.	Mr. M.Venkateswara Rao & Mr. M.Srinivas	DST- PURSE	2017	2020	Gait Analysis in Parkinson's disease	15.00
2.	Dr. M.Malini	DST- PURSE	2017	2020	Analysis of Fetal Heart rate variability	4.0
3.	Mr. D.Suman	DST- PURSE	2017	2020	A holistic therapeutic approach of Yoga and Meditation for the Hypertension- A clinical study on the Autonomic Control system	4.0
4.	Mr. K.E.Ch.Vidya Sagar & Mrs. G.Shravanya	DST- PURSE	2017	2020	Design and development of A Multi biological parameters based integrated system	4.0
5.	Prof. M. Malini	MRP, UGC	2016	2020	Wireless Data Acquisition system for vital sign monitoring	2.64



6.	Mr. D.Suman	MRP, UGC	2016	2020	Design and Development of a Fuzzy Expert system for the mitigation of drowsy driving of the heavy vehicles	5.0
7.	Mr. K.E.Ch.Vidyasagar	MRP, UGC	2016	2020	Design and Development of automatic epilepsy detection and classification system	3.8
8.	Mr. D.Suman	Seed Grant Under TEQIP- II	2015	2016	Mitigation of drowsy driving through ANN based Blink features from the EOG Data Acquisition system	1.00
9.	Mr. M. Venkateswara Rao & Prof. M.Malini	UPE Status of UGC	2013	2018	Hyperthermia application of Nano materials for cancer Therapy	73.50

5. Patents Granted:

S.No.	Patents of the department	Granted Year
1	"Mobile Controlled multi drug infusion system" By Mr. K.E.Ch. Vidyasagar, & Dr. Sudesh Sivarasu, Patent No.: 304847 for 20 years.	2018
2	"Mobile Controlled multi drug delivery system" By Mr. K.E.Ch. Vidyasagar, & Dr. Sudesh Sivarasu, Patent No.: 288750 for 20 years.	2017

6. Patents Applied:

S.No.	Patents of the department		
1	"A Portable device for Automated cradle movement"		
1	Ref No: 201741007378, dated: 03-02-2017		
	"Portable Non-invasive multi-wavelength photo plethysmographic measuring		
2	technique for Hemoglobin"		
	Ref No: 201641039799, dated: 22-11-2016		
3	"Cryo probe used in Cardiac surgery"		
3	Ref No: 6317/CHE/2014, dated:16/12/2014		
	"Syncope detection emergency messaging" by Mr.Aravind, Ms.Soundarya and		
4	Mr. M.Venkateswara Rao		
	Ref No: 1639/CHE/2009		
	Tarunasri, a Former student(2008) has done her project work on Enzyme Field		
	Effect Transfer (ENFET) For Estimation of Triglycerides Using Magnetic Nano		
5	particlesat CCMB under Dr. Madhusudan Rao, Deputy Director and got a patent		
	Ref. No. H01R31/00		



6	"Intelligent system for monitoring and balancing of battery voltage" Ref. No: 201741047449 A, dated: 05/01/2018. M/S Amara raja Batteries Limited- R.Narayan, M.Venkateswarulu, M.Venkateswara Rao, M.Jagadish
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7. Consultancy:

- ✓ Biomedical Instrumentation Centre (BMIC) under the Department of Biomedical Engineering in 1994.
- ✓ Calibration equipment was procured under TEQIP grant in 2016
- It meets the following objectives:
 - o Calibration and testing of the Electro-Medical Equipment
 - Maintain Electro-Medical Equipment already supplied to the Hospitals.
 - Hospital Design, Planning, Procurement of Medical Equipment.
- ✓ BMIC has executed an order on Operation Theatre table control board, repair of PCBs in Thumbay Hospitals, and generated an amount of Rs. 1.8 lakhs IRG.
- ✓ BMIC has executed an order on NABH Biomedical Equipments calibration in Lotus Hospitals and Rise Hospitals, Hyderabad for an amount of Rs. 2.35 lakhs.
- ✓ Internal Revenue generated in 2018-19 is Rs. 4.15 Lakh.
- Mr. M.Venkateswara Rao is a Technical Advisor and Mentor for BIG Grant (DBT) projects, worth 50 Lakhs each to two Startup Companies, viz., Chrogene Aarogyam Biotech pvt. Ltd. and CYONICS cyto solutions
- ✓ Mr. M.Venkateswara Rao is associated with industry as a consultant to M/S. Amara raja Batteries Limited.

8. Laboratories of the department:

The department has well equipped following 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 & Simulation Lab



9. Infrastructure:

Software: Turbo C, MATLAB R2019a, NI Lab view, Auto CAD, ORCAD, PCB Prototype software and Grammarly.

Hardware: Major Equipment in the Laboratories

S.No	Equipment	
1.	EEG 10-20 Electrode cap	
2.	Calibration Equipment	
3.	Driving simulator	
4.	Motorized Wheel Chair	
5.	Microprocessors (8085, 8086) and Microcontrollers Boards	
٥.	(PIC, 8051) and their interfacing kits.	
6.	Clinical Analyzer	
7.	AD Instruments Computerized Data Acquisition System	
8.	PCB prototype machine	
9.	Sensor Development Boards	
10.	TMT Machine	
11.	100MHz Digital Storage Oscilloscope	
12.	National Instruments ELVIS II+ Development board	
13.	DSP 2X, 6X processors	

10. Library facility:

- 1 Well established Seminar Library with around 3000 books.
- 2 Subscribed for the ISOI Journal from the year 2011-12.
- 3 PCs with internet/Wi-Fi connectivity and UPS facility.

11. 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.

Mr. M.Venkateswara Rao is author of the Book titled "Bioinstrumentation – Tremor Analysis" published by Lambert Publishers. Mr. M.Venkateswara Rao is associated with industry, as mentor for two BIG (DBT) projects, worth 50 Lakhs each, and as a consultant to M/S. Amara raja Batteries Limited.

Mr. M.Venkateswara Rao is associated with two start-up companies: Chrogene Aarogyam biotech private Limited and CYONICS cyto solutions.

12. Distinguished Alumni:

1	Ravi Bellamkonda	Professor and Associate Vice President for Research at Georgia Institute of Technology, USA.	
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	CEO, SNC, Hyderabad	
7	Pramod Reddy	Founder & CEO, Allatus Techno-Legal Solutions Pvt. Ltd	
8	Vasanth Kumar	Service Specialist at GE Healthcare Pvt. Ltd	
9	Chaithanya Krishna Mummidisetty	Quality Engineer InternshipBoston Scientific Corporation Miami, Fl.	
10	Mallikarjun	Head, Biomedical Engineering division, NIMS, Hyderabad.	

13. Recent Publications:

- Mr. Tadesse Waktola Gamessa and Mr. Dabbu Suman published a paper on "Non-invasive blood glucose monitoring using visible laser light" in Research Journal of Pharmacy and Technology, volume 12, issue 2, 2019.
- 2. Chandana Belly, Sai Poojitha Bonula, Usha Rani Kandukuri, Harish Kuchulakanti presented a paper titled "A Review on methods of treatment for Diabetic Foot Ulcer" in International Conference on Emerging Trends in Engineering (ICETE 2019) held in University College of Engineering (A), Osmania University during 22nd-23rd March, 2019.



- 3. B. Sai Lalitha, Dr. M. Malini , Mr. M. Venkateswara Rao, Dr. Aparna Suryadevara, Dr. Rajesh Kotcherlakota, Dr. Chitta Ranjan Patra presented a paper titled "Correlation between serum levels of p53 during radiotherapy in cervical cancer patients" in ICETE 2019 held in University College of Engineering (A), Osmania University during 22nd-23rd March. 2019.
- 4. Anitha Chinthoju, Jaya Gayatri Chekka, Ravalika Nadigepu, Harish Kuchulakanti presented a paper titled "IoT aided non-invasive NIR blood glucose monitoring device" in ICETE 2019 held in University College of Engineering (A), Osmania University during 22nd-23rd March, 2019.
- B.Dhananjay, M.Srinivas, D.Suman, M. Malini, J. Sivaraman presented a paper titled "Fractal Dimension of Fundoscopical Retinal Images for Diagnosing of Diabetic Retinopathy" in ICETE 2019 held in University College of Engineering (A), Osmania University during 22nd-23rd March, 2019.
- Usha Sri, Dr.M.Malini, G.Chandana presented a paper titled "Feature extraction of cardiotocography signal" in ICETE 2019 held in University College of Engineering (A), Osmania University during 22nd-23rd March, 2019.
- Harish Kuchulakanti, Chandrasekhar Paidimarry presented a paper titled "Early Stage Squamous Cell Lung Cancer detection" in ICETE 2019 held in University College of Engineering (A), Osmania University during 22nd-23rd March, 2019.
- 8. Mr. M. Venkateswara Rao presented a paper titled "Review of active cell balancing technologies" at International Conference on Green Energy technologies for smart cities (GETSC 2018) held in SRM University, Amaravati during 19th-21th December, 2018.
- Mr. M. Venkateswara Rao presented a paper titled "Design and realization of an effective and rugged battery management system for lithium-ion battery" at International Conference on Green Energy technologies for smart cities (GETSC 2018) held in SRM University, Amaravati during 19th-21th December, 2018.
- 10. Mr. D.Suman, Mr. Vineeth Muppula and Mr. Suraj paper titled "Classification and Diagnosis of Sleep Apnea and Congestive Heart Failure Using DWT Based Statistical Features: An Extensive Study" is presented at 15th IEEE India Council International Conference (INDICON) in November, 2018.
- 11. Harish. Kuchulakanti, Chandrasekhar Paidimarry presented a Paper titled "A Novel approach for Lung segmentation and Lung nodule detection", in International Conference on Research Advancements in Applied Engineering Sciences, Computer and Communication Technologies (ICRAAESCCT 2018) held in B.V. Raju Institute of Technology and Institute For Engineering during 12th-13th July, 2018.



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

- An International Conference on Emerging Trends in Engineering (ICETE 2019) was organized by all the departments of UCE during 22nd 23rd March, 2019 in association with Alumni Association, UCEOU & VSSUT, Burla sponsored by TEQIP-III.
- 2. One Day Workshop on Product Demonstration & Exhibition was organized in the department on the occasion of superannuation of Associate Professor Mr. M. Venkateswara Rao on 30th April, 2019.
- 3. Hands on training on Medical Equipment (Module I) during 1st 2nd February, 2019 under TEQIP-III
- 4. One Day Workshop on Integrated Engineering & Product Development through Innovation organized during 8th September, 2018 under TEQIP-III
- 5. Five Day Hand-on training workshop on 3D modelling and Image Processing during 23rd -27th July, 2018 under TEQIP-III.

15. Guest Lecturers Organized:

- Dr. Sajan Goud Lingala, Assistant Professor of the Roy J Carver, Department of Biomedical Engineering, and the Department of Radiology, University of Iowa delivered an Invited Talk on "Seeing speech using novel high speed magnetic resonance imaging (MRI)" in ICETE 2019.
- 2. Dr. Kousik Sarathy Sridharan, Asst. Prof, IIT Hyderabad delivered an Invited Talk on "Emerging trends in Neurotechnology" in ICETE 2019.
- 3. Prof. Arun K Tiwari, Secretary of Care Foundation and the Platinum Jubilee Mentor of CSIR–IICT delivered an Invited Talk on "Biomedical Engineering 2.0, Taking medicine from "Do no harm" to "Do good" in ICETE 2019.
- 4. Dr. P. Raghu Ram, Padmasri Awardee, Director, KIMS-Ushalakshmi Center for Breast Disease, Hyderabad delivered a key note address in Meditech 2019 on "Breast Cancer and Prevention".
- 5. Dr. Pavithra Chavali, Project Scienntist, CSIR, Hyderabad delivered a guest lecture on "Genomics" during Meditech 2019.
- 6. Mr. Arun Kumar, Application Manager, Draeger pvt. ltd., delivered a guest lecture on "Demonstration and trouble shooting of Ventilators" during Meditech 2019.
- 7. Mr. Raghavendrachar Jois, Head of Instrumentation and I/c of Engg. departments, Centre for DNA Fingerprinting and Diagnostics delivered a guest lecture on "Advances in DNA fingerprinting Technology" during Meditech 2019.



- 8. Mr. Bharath Kumar, Clinical Specialist at Medtronics delivered a guest lecture on " Deep Brain Stimulation" during Meditech 2019.
- 9. Dr. Vimal Kishore Kakani Director, Clinical Innovations, COEO Labs, Bangaloredelivered a guest lecture on "Multidisciplinary approach in Biodesign" on 04th August, 2018.

16. Guest Lecturers delivered by our faculty:

- Mr. M. Venkateswara Rao delivered a guest lecture on "Battery Management" in Department of EE in National workshop held during 1st - 2nd March, 2019.
- 2. Mr. M. Venkateswara Rao delivered a guest lecture on "Biosensors" in Staff college on 26th October, 2018.
- 3. Prof. M.Malini delivered a guest lecture on "Ultrasound applications in Medicine" in CVR college of Engineering on 1st Nov, 2018.
- 4. Mr. M. Venkateswara Rao delivered a guest lecture on "Biosensors and its applications" in CVR college of Engineering on 2nd November, 2018.
- 5. Mr. M. Venkateswara Rao engaged hands on training program on "Biomedical data acquisition" on 3rd Nov, 2018.
- Mr. K. Harish delivered two guest lectures on "Maintenance of Ventilators" in the Short Term Training Program held at National Skill Training Institute (Formerly ATI-EPI), Hyderabad during 05th September, 2018 and 06th September, 2018.

17. Technical Symposia - Meditech 2019:

The students of the Department have organized the National Level Technical Symposium MEDITECH 2019 during 1st& 2nd March, 2019. The Chief Guest was Dr. P. Raghu Ram, Padmasri Awardee, Director, KIMS-Ushalakshmi Center for Breast Disease, Hyderabad. The chief Sponsors were Fission Labs, SBH, Trimed Pvt ltd., Smart Ridge, Alliance Medical Systems, Continental Hospitals, KIMS Hospitals, Care Hospitals.

18. 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 established a Biomedical Instrumentation center which caters its services in the following:

- 1. Maintenance of Medical equipment of hospitals.
- 2. Calibration and testing of Medical equipment.





Electronics Engineering Lab

Computer Programming Lab





Electronics Engineering Lab

Audiometer





Operational Microscope

X-Ray unit for Demonstration





Electroporesis unit







Meditech 2019 Inauguration

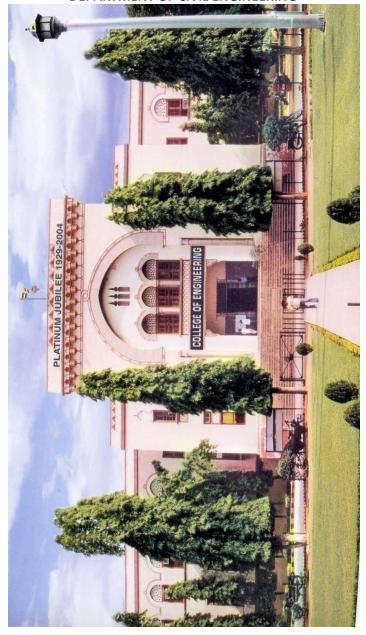
Sovenier released by Dr. Raghu Ram and Other guests in Meditech 2019



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



DEPARTMENT OF CIVIL ENGINEERING





TEACHING FACULTY



Prof. M. Gopal Naik (Head)



Prof. Kumar Molugaram (Principal, UCE,OU)



Prof. N. Suresh Kumar



Prof. V. Bhikshma



Prof. M. A. Prasad



Prof. P. Raja Sekhar



Prof. K. L. Radhika



Dr. M. V. S. Sreedhar



Dr. K. Shashikanth



Dr. D. Rupesh Kumar



Dr. D. Rajashekar Reddy



Dr. R. Srinivasa Kumar



Mrs. D. Annapurna

Assistant Professors



Mrs. P. Anuradha



Mr. R. Rajender



Dr. Harish Gupta (UGC-FRP)

Assistant Professors (Contract)



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

Prasanna

Mrs. A. Usha Sri



Mr. L. Ajay Kumar



GROUND WATER MODEL



BASIC HYDROLOGY SYSTEM





CREEP TEST RIG

LVDT



DATA LOGGER



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. Laboratories available in the Department:

- Materials Testing Lab.
- Concrete and Structures Lab.
- Transportation Engineering Lab.
- Geo-Technical Engineering Lab.
- Fluid Mechanics Lab.
- Environmental Engineering Lab.
- Surveying Lab.
- Computer Lab.
- 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.

3. Major Equipment available in the Department:

Universal Testing Machines of 1000 kN and 2000 kN capacity, Torsion, Shear, Tension, Compression and Flexural Testing Equipments, 1000 kN & 150 kN loading frames, Impact Testing Machine, Vibration monitoring systems, Large Scale Direct Shear Box Testing Unit, Triaxial Testing Machine with pore pressure measurement facility, Low-Speed short Wind Tunnel (0. 61m X 0. 61 m) with two component strain gauge balance, Tilting frame (12.0 m length), Dual frequency Doppler Flow Meter, Nephelometer, Portable Spectrophotometer, Total station, Automatic Level, NDT Equipments like Corrosion analyzer, Profometer, Schmidt Rebound hammer and Ultrasonic test apparatus, Infrared



- camera, Ground Penetrating Radar (GPR), Asphalt Testing System, BOD equipment with dissolved oxygen probe and Fluoride Electrode
- ♣ Latest Software Packages like ANSYS, NISA, NASTRAN, AutoCAD, STAAD.PRO, SAP, ETABS, ArcGIS, InfoSWMM, Symantec Antivirus Endpoint Protection, etc

TEQIP Phase-II: Procurements

- i) The following equipments were procured, installed and being used: Relative density apparatus, Automatic compactor, Block resonance test facility, Electrodes for ions, Discharge measuring system, Total station, Longitudinal Compressometer, Humidity Chamber, Fatigue Testing Machine 200kg, Drying Shrinkage and Moisture movement, Groundwater model, Basic hydrology system and Accelerated polishing machine.
- ii) The following software were procured, installed and being used: MATLAB, STAAD, B_est, MD FEA, CARD/1 (Transportation Engineering Software), CUBE 6.0 (Traffic Planning Software / Academic version) and Geo-Slope (Geo5) (Geotechnical Engineering Slope Stability Software).

TEQIP Phase-III: Procurements

- The following equipments were procured, installed and being used:
 Creep Test Rig, Data Logger, LVDT and Modification of CTM for performing load test on soils
- ii) The following equipments are under process of procurement: Asphalt Mixer (5 liter capacity) and Upgradation of existing load test facility in Geo-Technical Engineering Lab

4. Library

The following books are available in the department library

Reference Books	-		761
Text Books	-		1700
General Books	-		200
Journals (ACI, National, International)	-		688
Code Books		_	200



5. Faculty Details

Faculty member Areas of Teaching and Research					
PROFESSOR AND HEAD					
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 Engineering, 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 Engineering and Project Management.				
PRO	OFESSORS				
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	Computational Fluid Dynamics, Groundwater flow modeling, Free surface flows, Water management, Rural and urban water supply systems, and Environmental Hydraulics				
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				
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				
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)				
Dr. K. L. Radhika B. Tech (JNTU),M. E. (OU), Ph.D (NITW)	Structural analysis and design, and Concrete Technology				
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				
	TE PROFESSORS				
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. K. Shasikanth B. Tech (SVU) ME-CE (UVCE-B), M.Tech- CS (JNTU)	Surface water hydrology, Mathematical modeling to water resources, ANN and GIS applications.				
Dr. D. Rupesh Kumar	Design of RCC & steel structures, Finite element				



B. Tech (NU), M.Tech (JNTU), Ph.D	analysis, Earthquake resistant design of structures,	
(JNTU).	Design of bridges, Structural shape optimization	
Dr. D. Rajashekar Reddy BE (OU), M.Tech (JNTU), Ph.D(IITKGP)	Transportation Engineering, Traffic Engineering, Pavement analysis, Pavement Construction	
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.	
Mrs. D. Annapurna B. Tech (SKU), ME(OU)	Structural analysis and design, Computer aided analysis & design of structures.	
ASSISTANT PROFESSORS		
Mrs. S. V. S. N. D. L. Prasanna BE(OU), ME(OU)	Computational Fluid Dynamics, Drainage Engineering, Irrigation Water Management	
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	
Dr. Harish Gupta (UGC-FRP)	Earth Surface Process and Climate Moderation; Surface Hydrology, Global Bio-geochemical Cycles and Environmental Pollutants in rivers; Urban Water Management	
ASSISTANT PRO	OFESSORS (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	

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

Faculty Name	Name of Sponsored R&D Project	Amount (Rs.) & Duration	Name of Sponsored Agency/Organization
Prof. M. Gopal Naik	Scheme for Promotion of Academic and Research Collaboration (SPARC)	74.38 lakhs	Ministry of Human Resource Development(MHRD)
Gopai Naik	Science and Engineering Research Board (SERB)	40.13 lakhs	Department of Science and Technology
Prof. V. Bhikshma	Experimental Investigation on Flexural and shear behavior of High strength pond ash concrete	2.35 lakhs Two years	UGC Minor Research Project (Work is in progress)
Dr. M. V. S. Sreedhar	Laboratory investigations on the Uplift Capacity of Shallow Foundations	3.20 lakhs (One year) (Inprogress)	Industry – M/s RAMBOLL Engineers, Hyderabad
Dr. K. Shashikanth	Co- Principal Investigator for the AC-IWRM sponsored research project on "Assessment of Climate Change Impact on Precipitation and Stream flow in Middle Krishna (K2), Ghataprabha (K3), Malaprabha (K4), and Lower Bhima (K6) sub basins of Krishna Basin"	30 lakhs (2018-19)	Advanced Centre for Integrated Institute of Water Resources Management (AC-IWRM) Govt. of Karnataka
Dr. Harish Gupta	Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad City (Co-PI)	74.38 lakhs (April 2019-March 2021)	SPARC-MHRD
	MOOCs on Water Resources and Watershed Management (Co-PI)	13.50 lakhs (2019)	UGC

9. Consultancy Projects:

Faculty Name	Name of Consultancy Project	Amount (Rs.) & Duration	Name of Sponsored Agency/Organization
Prof. V.	Different organizations	20.73	Proof checking and other
Bhikshma	Different organizations	lakhs	third party works



Prof. M. Anjaneya Prasad	Hydraulic Design Vetting and Verifications	63 lakhs	Private Organizations
Dr. M. V. S. Sreedhar	Geotechnical Investigations & Proof Check (> 20 projects)	11.00 lakhs	Different Govt. / Private organizations.
Dr. K. Shashikanth	Involved in the Consultancy Projects of Mission Bhagiratha Govt. of Telangana for the Districts of Ranga Reddy, Adialabad, Nirmal, Nalgonda. Consultancy mainly consists of Vetting of Hydraulic Design of Pipe networks both primary and secondary networks including Surge Analysis	10 lakhs	NCC, L&T, TDWSP, SMC Infrastructures Ltd.
Dr. D. Rupesh Kumar	120 projects of several Government organizations	48.31 lakhs	120 clients include PRED, GHMC, HMDA, SAAP, SKLTSHU, SCR, TSTDCL, TS R&B, MES, APSPHCL, TSTDCL, DANIELI INDIA, etc.

10. List of Publications in International Journals by Faculty:

Faculty Name	Paper Title	Journal Name	Volume No. & Year
Prof. M. Gopal Naik	Analysis of Construction Delay due to Poor Planning using Fuzzy Logic Technique	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Vol.6 (VII), Pp.491-498.
	Role of Vertical Velocity in Improving Finer Scale Statistical Downscaling for Projection of Extreme Precipitation (2018)	Theoretical and Applied Climatology (Impact factor 2.43)	https://doi.org/ 10.1007/s0070 4-018-2615-1
Dr. K. Shashikanth	Temperature Projections from GCMs using Quantile Remapping Method (2018)	International Journal of Applied Engineering Research (UGC Approved)	Volume 13, No. 11, 8922- 8924.
	Indian Summer Monsoon Rainfall Extremes Projections Using Block Maxima Approach (2018)	International Journal of Applied Engineering Research (UGC Approved)	Volume 13, No. 11, 8925- 8928.
	Can statistical downscaling improve consensus among CMIP5 models for Indian summer	International Journal of climatology Royal Meteorological	https://doi.org/ 10.1002/joc.53 52



	monsoon rainfall projections? (2018)	Society (RMetS)	Volume 38,issue 5, pp2449-2461
	Future Projections of Indian Summer Monsoon Rainfall Extremes over India with Statistical Downscaling and its Consistency with Observed Characteristics (2018)	Climate Dynamics (Springer Publications)	DOI: 10.1007/s0038 2-017-3604-2 Vol 51, Issue 1-2, pp 1-15.
Dr. D.	Rutting potential of asphalts using resilient modulus test parameters	Road Materials and Pavement Design, Taylor & Francis	Vol. 20, No.1 2019
Rajashekar Reddy	Analysis of Gap Acceptance, Capacity and Level of service at Un-signalized 'T' Intersection under Mixed Traffic Condition	International Journal of Technical Innovation in Modern Engineering & Science	Vol. 4, Issue 9 2018
	A Survey Report on Optimization Techniques of Pavement Maintenance in Road Network System	International Journal of Modern Engineering and Research Technology	Volume 5, Issue 1, January 2018
	Roughness Evaluation of Flexible Pavements Using Merlin and Total Station Equipment	i-manager's Journal on Civil Engineering	Vol. 8(1), 41- 46, Feb, 2018
	Evaluation of Performance of Isolated Signalized Intersections and Design of Co-ordinated System by Using Vissim Software	International Journal of Emerging Technology and Advanced Engineering	Vol 8(5), pp.230-237, May 2018.
	A Study on Recycled Bituminous Pavement Material Using Bitumen VG-30	International Journal of Creative Research Thoughts	pp. 391-394, 2018
Dr. R. Srinivasa	Economic Analysis of Flexible Pavement by Using Subgrade Soil Stabilized with Zycobond and Terrasil	International Journal of Creative Research Thoughts	pp. 313-317, 2018
Kumar	Structural Evaluation of Rigid Pavement Using Falling Weight Deflectometer (FWD)	International Journal of Technical Innovation in Modern Engineering & Science	Volume 4, Issue 12, December- 2018
	Development of Delay Equations At Signalized Intersections In Hyderabad	International Journal of Technical Innovation in Modern Engineering & Science	Volume 4, Issue 12, December- 2018
	A Comparative Study of Road Alignment Survey Data Measured Using Unmanned Aerial Vehicle And Total Station	International Journal of Technical Innovation in Modern Engineering & Science	Volume 5, Issue 1, January-2019
	An Empirical Capacity Model For Roundabouts Under	International Journal of Technical	Volume 5, Issue 01,



	Heterogeneous Traffic of Hyderabad	Innovation in Modern Engineering & Science	January-2019
	Traffic Flow Simulation and Development of Delay Models at Toll Plazas	International Journal of Technical Innovation in Modern Engineering & Science	Volume 5, Issue 2, February-2019
	Simulation of flows over an Air - Regulated Siphon Spillway	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	Vol. No. 15 Issue - 4, July - Aug, 2018
Mrs. S.	Turbulence Modelling for Estimation of Hydraulic Jump Height	STM Journal of Recent Trends in Fluid Mechanics	Vol. No. 5 Issue – 3, August, 2018
Prasanna	Simulation of Flow Behaviour around Bridge Piers Using ANSYS – CFD	International Journal of Engineering Science Invention (IJESI)	Vol. No. 7 Issue 9 Ver – III Sept - 2018
	Reproduction of Water Surface Profile Using ANSYS - CFD	International Journal of Engineering Science Invention (IJESI)	Vol. No. 8 - Issue 5 – Version – 4, May - 2019
Dr. Harish Gupta	GIS-based prediction of groundwater fluoride contamination zones in Telangana, India	Journal of Earth System Science	128(5) 2019
	Prediction of daily sediment discharge using a back propagation neural network training algorithm: A case study of the Narmada River, India	International journal of sediment research	34(2) 2019

11. List of Publications in National Journals by Faculty:

Faculty Name	Paper Title	Journal Name	Volume No. & Year
	Management of Water Supply and Sewerage System in Hyderabad.	Journal of Indian Water Works Association	April-June, Edition, 2019, Pp: 120-125.
Prof. M. Gopal Naik	Evolutionary Design and Calibration of District Metered Area of Water Supply Network Systems Using Numerical Methods and Hydraulic Software	Journal of Indian Water Works Association	Vol. No. 2, April-June, 2018.

12. List of Publications in International Conferences by Faculty:

Faculty Name	Paper Title	Conference Name	Volume No. & Year
	Critical Analysis of	15 th World Conference	Duning May 26
Prof. M. Kumar	Speed Hump and Speed	on Transportation	During May 26- 31, 2019
	Bump and Geometric	Research (WCTR)	31, 2019



	Design of Curved Speed Hump		
	Analysis of Speed Profiles at Speed Hump under Various Dimensions and Simulating their LOS using VISSIM	15 th World Conference on Transportation Research (WCTR)	During May 26- 31, 2019
	Driving Experience of Truck Driver in Behavioral Modeling	15 th World Conference on Transportation Research (WCTR)	During May 26- 31, 2019
	Simulation Techniques for Projecting Traffic Growth rate	15 th World Conference on Transportation Research (WCTR)	During May 26- 31, 2019
Prof. V. Bhikshma	Model Analysis of High Rise Structures for wind and Earthquake Forces Flexural Behavior of High strength Geopolymer concrete Experimental investigation on self curing Recycled aggregate concrete	International Conference on Structural Engineering and Construction Management (ISEC10) at Chicago Illinois University, USA	During May 20- 25, 2019.
	Flexural Behavior of High Strength Geo polymer Concrete Beams during 28 – 29 December 2018(ICPET 2018) being organized by Methodist College of Engineering & Technology Hyderabad, India.	Emerging trends in engineering and Technology	During 28-29 December 2019
Mrs. D. Annapurna	Effect of Different Aggregates on Alkali Silica Reaction of Geopolymer Concrete	International Conference on Emerging Trends in Engineering	UCE, OU, 22- 23 March 2019

13. List of Publications in National Conferences by Faculty

Faculty Name	Paper Title	Conference Name	Volume No. & Year
Prof. M. Gopal Naik	Water Sensitive Urban Design as Way Forward to Sustainable Water Management for Hyderabad City	All India Seminar on Water and Sanitation Management, Hyderabad, from March, 19-20, 2019, Telangana State Centre, IEI, India.	2019
Prof. M. Kumar	Laboratory Assessment of	Indian Highways	Vol. 47 (6)



	Warm Mix Asphalt Mixes When Prepared With Varying Packing Characteristics and Inclusion of Fibre	IRC, New Delhi	pp:42 – 52 June (2019)
Prof. V. Bhikshma	Flexural and Shear Behaviour of High Strength Pond Ash Concrete during 21 – 22 Jnuary 2019(NCRACE 2019) being organized by Teegal Krishna Reddy Engineering College Hyderabad, India.	National conference on advances in civil Engineering	During 21- 22 January 2019
Mrs. D. Annapurna	"Influence of Alkali Silica Reaction in Geopolymer Concrete"	Advances in Sustainable Construction Materials	NIT Warangal, 15-16 March, 2019
Dr. Harish Gupta	Water Sensitive Urban Design as Way Forward to Sustainable Water Management for Hyderabad City	All India Seminar on "Water and Sanitation Management" Conducted by IEI (India)	2019

14. List of Books / Proceedings Published by Faculty:

Faculty Name	Title	Publisher Name	Year of Publication
Prof. M. Kumar	Advances in Decision Sciences, Image processing, Security and Computer Vision International Conference on Emerging Trends in Engineering (ICETE), Vol. 1	Springer	2019
Prof. V. Bhikshma, Prof. P. Raja Sekhar & Prof. K. L. Radhika	Two Day National Conference on Advanced Computing Applications in Civil Engineering (ACACE-2018)	BS PublicationsHyderabad	2018
	Proceedings of National Conference on Advanced Computing Applications in Civil Engineering held in April, 22-24, 2018, UCE, OU	BS Publications	2018
Dr. K. Shashikanth	62 nd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM 2017), Dec 15-18, 2017.	ISTAM jointly with IIT Kgp and OU	2017
	"Changing monsoon behavior with the evaluation of CMIP5 climate models" in book titled "Sustainable holistic water resources management in a changing climate,," as a book	Jain Brothers, New Delhi	



	chapter edited by Srinivasa Raju, K., Vasan, A.		
Dr. R. Srinivasa	Introduction to Traffic	Universities Press Pvt	June 2018
Kumar	Engineering	Ltd	

15. Guest Lecturers delivered by Faculty:

Faculty Name	Details of Lecture	Name of Organization	Date
Prof. M. Gopal Naik	Wastewater Treatment Technologies-Advanced Treatment Options	Andhra Pradesh Human Resource Development Institute (Govt. of AP)	13.06.2019 to 15-06- 2019
	How to Define Research problem?	ERM Workshop (15-20, April 2019), MED, University College of Engineering, OU	17-4-2019
	How to Appraise Literature Review?	ERM Workshop (15-20, April 2019), MED, University College of Engineering, OU	19-4-2019
Prof. M. Kumar	General Awareness on Engineering Research	ERM Workshop (13-17, May 2019), EEED, UCE, OU	14-5-2019
	Importance of Engineering Research	ERM Workshop (6-10, May 2019), CED, UCE, OU	07-5-2019
	Role of soils in Building Transportation Infrastructure	Two-day Young researchers Symposium for Geotechnical Engineers, 1-2, Oct 2018	2-10-2019
	SQM - Inspection on Bridges & Culverts		22.01.2019
Prof. V. Bhikshma	SQM - Inspection on Bridges & Culverts in PMGSY	ESCI	21.12.2018
	Damages Assessment & Evaluation of structural & Non structural Repairs		21.11.2018
Prof. M. Anjaneya Prasad	Water Auditing and Unaccounted flow of Water (Case Study)	EPTRI, Hyderabad	2-11-2018
Prof. P. Raja Sekhar	How to Conduct Literature Survey and Review & Defining Research Problem	Dept. of Mech. Engg., OU, Hyd	18-22 June 2018
	Geosynthetic Materials - Geotextiles-Types and properties	ESCI, Hyderabad	20.06.2018
Dr. M. V. S. Sreedhar	Lecture-demonstration on Geotechnical Engineering Laboratory tests	ESCI, Hyderabad	21.06.2018
	Application of Geosynthetics in Ground Improvement	NIT, Warangal	01.10.2018
	Geotechnical Investigations	NAC, Hyderabad	29.11.2018



	&Ground Improvement		
	Techniques in Infrastructure		
	Development Geotechnical Investigations for		
	Reinforced Soil Structures	NIT, Warangal	30.01.2019
	Foundations of Tall Structures	NAC, Hyderabad	28.05.2019
	Use and Applicability of	5 th National Conference	
	General Circulation Models in	on Sustainable Water and	June 4-6,
	the Simulation of Climate	Environment	2018.
	System	Management (SWEM-17)	
		Workshop on Hydrology	30 and 31
	Hydrological Flood studies	for Engineers from Water	January,
	including Routing Techniques	Resources Dept, Govt of	2018.
		Karnataka	
		Two (2) day refresher	
		training programme on "Climate Change	
		Mitigation: Role of	
Dr. K.	Climate change and extreme	Forestry & sinks with in	
Shashikanth	events – Framework for rainfall	Clean Development	29
Simonina.	extreme Projections under	Mechanism Framework"	January,
	Climate Change – Climate	for Indian Forest Service	2019
	modeling.	(IFS) officers by the	
		Ministry of Environment	
		Forests and Climate	
		Change (MoEF & CC),	
		Government of India.	
	Introduction to water audit soft	Green Skill Development	
	wares: PODIUMSim and	Program (GSDP) - Certificate Course on	31.10.2018
	AWWA software and EPANET	Water Budgeting and	31.10.2018
	software	Auditing	
	Introduction to water audit		
	softwares: IWMI software and		
	SCADA		
		CPCB, Sponsored Global	26th to
	Climate Modeling and	Warming, Climate	28th
	Projections on Climate Change	Change and Disaster	November
		Management- Future	2018.
		Perspective A two day Training	
		Programme on	
Dr. K.		Development Trends in	
Shashikanth		Water Supply System for	
	Water Distribution System	Dy. General Manager's	04-02-
	Design using EPANET software	(E) & Manager's (E) from	2019.
	along with case studies	Hyderabad Metropolitan	
		Water Supply &	
		Sewerage Board	
		(HMWSSB)	
	Regional Simulations of Indian	Short Term Training	
	Monsoon & GCM Data and	Programme on: Capacity	14.11.2018
	Future Climate Conditions	Building for	ı



		Interdisciplinary Research on Climate Change	
	Indian Technical and Economic Cooperation (ITEC) programme by Ministry of External Affairs on 'Climate Change and Sustainable Development'- International Programme	Climate Change and extreme events, Framework for rainfall extreme projections under climate change & climate modelling	17.12.2018
	Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	08.03.2019
	Impact of climate Climate change	UGC – Human Resource Development Centre as a Resource Person and address the participants of the 105 th Orientation Course	06.03.2019
	Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	21.02.2019
Dr. K. Shashikanth	Climate change and extreme events – Framework for rainfall extreme Projections under Climate Change – Climate modeling	EPTRI training program under Indian Technical & Economic Cooperation (ITEC) by Ministry of External Affairs, Government of India on on 'Integrated approach to climate change policy development and financing for effective implementation of SDG goals	20.03.2019
Dr. R. Srinivasa Kumar	Diverview of Accidents Scenario Crash Data Collection orensic Investigation of Crashes tistical Analysis of Crash data and Road Network ort Preparation and Identification	Title of the Workshop: Road Crash Data Analysis and Investigation: Sponsored by The Ministry of Road Transport and Highways	February 2019



	of Mitigation Measures	(Transport Wing), Government of India, New Delhi. In Kochi, By Engineering Staff College of India, ESCI, Gachi Bowli, Hyd.	
	Earth Day Lecture entitled as "Earth Day 2019: Protect Our Species"	DSM Group (Multinational Company) APIIC Software Layout, Madhapur, Hyderabad	April 17, 2019
Dr. Harish	Expert Lecture in Short Term Course on Disaster Management entitled as "Introduction to Disaster Management"	HRDC OU	Feb 25, 2019
Gupta	Expert Lecture in Advanced Training program on Analytical Geochemistry, entitled as "Tracing the Earth Surface Processes and Climate Moderation: Insights from Riverine Geochemistry".	CSIR-NGRI, Hyderabad	Feb 20, 2018

16. Conferences / Workshops / Seminars / Trainings organized by Faculty:

Faculty Name	Title	Venue	Dates	Sponsored by
	World Water Day-2019	University College of Engineering, Osmania University,	March, 22 nd , 2019	TEQIP-III
Prof. M. Gopal Naik	One Day Induction Programme for parents of Fist year B.E. Engineering students	University College of Engineering, Osmania University	1st September, 2018.	TEQIP-III
Prof. M. Anjaneya Prasad & Prof. P. Raja Sekhar	Work Shop on Engineering Research Methodology (Ph D Scholars of Civil Engg. & I.T.)	Civil Engineering Department	06-05-2019 To 10-05-2019	U.C.E, O.U
Prof. M. Anjaneya Prasad, Prof. P. Raja Sekhar & Dr. K. Shashikanth	B.E (Civil) VI- Semester students visited Palamuru- Rangareddy Lift Irrigation Project as a part of industrial visit		17 th February, 2018	



Prof. P. Raja Sekhar, Dr. K. Shashikanth & Ms. S. Prasanna	Educational Visit of V semester students to ICRISAT Two Day			
Prof. P. Raja Sekhar, Prof. K. L. Radhika, Dr. K. Shashikanth & Mrs. S. Prasanna	National Conference on Advanced Computing Applications in Civil Engineering (ACACE-2018)		20 th & 21 st April, 2018	
Dr. M. V. S.	ICETE-2019 UCE(A), OU		22-23, March- 2019	Alumni Association UCE, OU
Sreedhar	GeoApps-2019 IITH		30.03.2019	IGS, Hyderabad chapter
Dr. D. Rupesh Kumar	Academic- Industry- Practitioner Colloquium One-Day Workshop on Unexplored Possibilities in Civil Engineering Profession	Department of Civil Engineering, UCE (A), OU,	24 January, 2019	ICI-HYDC & ICI-OU Student Chapter, Hyderabad, T.S.
Mrs. P. Anuradha, Mr. R. Rajender & Mr. L. Ajay Kumar	One Week Faculty Development Programme on "Finite Element Analysis using MIDAS Software (Hands on Experience)"	Department of Civil Engineering, UCE (A), OU, Hyderabad	12-16 March 2019	TEQIP-III

17. Workshops / Seminars / Trainings / Courses attended by Faculty:

Faculty Name	Title	Venue	Dates	Sponsored by
Prof. M. Gopal Naik	Five Days Professional Development Training Programme	IIM Shillong	10.09.2018 to 14.09.2018	NPIU, MHRD TEQIP-III
Prof. M. Kumar	Three Week Leadership for Academicians Programme (LEAP)	University of Hyderabad, India Monash University, Melbourne, Australia	11 th -23 rd February 2019 25 th February- 2 nd March 2019	MHRD, Govt of India



	International Conference on Digital Pedagogies Changing Mindset for Sustainable Learning	New Delhi, India	1 st -2 nd April, 2019	TEQIP-III
	Professional Development Training	IIM, Trichy, Tamil Nadu, India	8 th -10 th October 2018	TEQIP-III
Prof. M. Anjaneya Prasad	Faculty Development Program	Attended to IIM Udayapur under TEQIP - III	19-01-2019 To 21-01-2019	TEQIP-III
Dr. M. V. S. Sreedhar	Hands on Experience course on MIDAS Software	CED, UCE(A),OU		TEQIP-III
	Three Week Refresher course on Regional Hydrology of floods	G.B. Pant University of Agriculture and Technology	8 th January 2018 to 19 th January 2018	
	3 Week Summer School on Strategies for Research oriented Teaching	UGC HRDC JNTUH	05.06.207 to 24.06.2017	
Dr. K. Shashikanth	One day work shop on State Specific Action Plan (SSAP) on Water for sustainable development and management of its water resources.		5.10.2018	
	U.S- India Partnership for Climate Resilience Workshop on High- Resolution Climate Projections and Analysis for India	EPTRI, Hyderabad	February 12 - 13, 2018	
Mrs. P. Anuradha & Mr. R. Rajender	ten (10) days GIAN course on "Seismic Performance Assessment of Structures through Numerical and Hybrid Simulations"	IIT Hyderabad	July 02-12, 2018	
Dr. Harish Gupta	Guest lecture on Technology Metamorphosis in Mining: Field Work to Digitalization World Water Day Seminar	Dept. of Civil Engineering	May 9, 2019 March 22, 2019	TEQIP
	Guest lecture on Environmental Sustainability		Feb 22, 2019	



18. Achievements / Awards of Faculty

Faculty Name	Achievements / Awards	
Prof. M. Kumar	Best Teacher Award-2018, by the Government of Telangana	
Prof. M. Kumar	Engineer of the Year - 2018 by Institute of Engineers (INDIA) &	
Fior. W. Kulliai	Government of Telangana.	
	Best Faculty Award, EET CRS Science & Technology Awards-19,	
Prof. M. Gopal Naik	Bangalore – 560020, India,	
	http://educationexpo.tv/sciencetechnologyawards	
Prof. M. Anjaneya Prasad	Research Under Literal Access Award Best Researcher in CIVIL	
Fioi. Wi. Alijaneya Fiasad	ENGINEERING by RULA International on 12th November 2018	
Dr. K. Shashikanth	Awarded Ideal teacher award by TUTORS PRIDE	

19. Key Note Lectures and Session Chair by Faculty:

Faculty Name	Details of Lecture	Conference Name	Name of the Organization	Dates
Prof. V.	"An Experimental investigation on Flexural behavior of Natural and recycled aggregate concrete beams using recron 3S fibers	National conference invited talk	Institution of Engineeres India (IEI) Hyderabad centre	24.08.2018
Bhikshma	NDT methods and NDT applications in Civil Engineering on 10 Sep 2018.	Institution of Engineeres India (IEI) Hyderabad centre	Engineeres India (IEI) Hyderabad	10.09.2018
	Chaired a session at ISEC10 International conference	Structures	Illinois University at Chicago, USA	21.05.2019
Prof. M. Anjaneya Prasad	Sediment yield prediction using feed forward back propagation neural network with sigmoid transfer function and radial basis neural network with Gaussian Transfer Function in a watershed of south east India."	Reviewed a Paper to special Edition Paper	"ISH Journal of Hydraulic Engineering"	July 2019
Dr. M. V. S. Sreedhar	Chaired, Session- III	Young researchers symposium for Geotechnical	NITW	01.10.2018



		Engineers		
	Chaired, Session- IV	Continuing Education Program on Geosynthetics in Infrastructure Development	NITW	30.01.2019
	Chaired, Session- V	ICETE-2019	CED, UCE(A),OU	23.03.2019
	Chaired, Session- III	GeoApps-2019	IIT, Hyderabad	30.03.2019
Dr. K.	Ranking of GCMs based on Bayesian Model for ISMR	National conference on Water, Environment and Society at JNTU Hyderabad	IST, JNTUH	21-23, Dec, 2017
Shashikanth	Use and Applicability of General Circulation Models in the Simulation of Climate System	National conference on Water, Environment and Society at JNTU Hyderabad	IST, JNTUH	June, 4-6, 2018
Dr. D. Rupesh Kumar	Ten lectures on RCC Designs	Two Day FDP on "Reinforced Concrete Designs"	Gurunanak Institutions, Ibrahimpatnam, Hyderabad	17-18 June, 2019
	Presented a Paper on "Replication of Peak Surge Height"	All India Seminar on "Water and Sanitation Management"	The Institute of Engineers (India), Telangana State, Visvesvaraya Bhavana, Khairatabad, Hyderabad	19 – 20 March, 2019
Mrs. S. Prasanna	Presented a Keynote on "Applications of ANSYS – CFD to Flow Problems" Co - Chaired Technical Session - IV	6 th National Conference on Water, Environment & Society (NCWES – 2019)	Centre For Water Resources /Institute of Science and Technology, JNTUH	5 – 7 June, 2019
Dr. Harish Gupta	Title of Keynote lecture: Water Sensitive Urban Design as Way Forward to Sustainable Water	All India Seminar on "Water and Sanitation Management"	IEI (India)	March 19, 2019



Management for		
Hyderabad City		

20. 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.

21. NIRMAN 2019:

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. K. Shashikanth** (Faculty Member of the Department).



Two Day National Level Student Technical Symposium NIRMAAN 2019, 1-2 March, 2019



Inauguration of Main Model during NIRMAAN 2019





One Week Faculty Development Programme on Finite Element Analysis using MIDAS Software (Hand on Experience), 12-16 March, 2019



Alumni Talk by Mr. G. Suneel Kumar, Managing Partner of Gorle Group on 20.03.2019



Released the brochure for "HYDRO-2019" International Conference on 08.04.2019





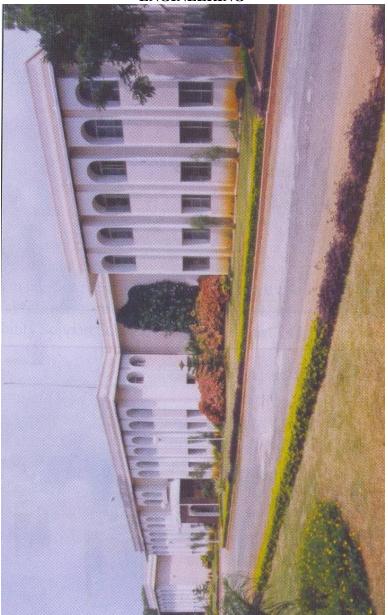
Felicitation Programme to our student Mr. B. Sudheer Kumar on his success in the Civil Services Examination on 04.05.2019



Organized a 5-Day workshop on Engineering Research Methodology during 05-10 May, 2019



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





TEACHING FACULTY



Dr.P.Premchand



Dr.S.Ramachandram (Vice Chancellor, OU)



Dr.K.Shyamala



Dr.P.V.Sudha (Head)



Mr. M. Venkat Dass



Mr.S.Srinivasa Rao



Mr.S.Ram Babu



Mr.L.K.Suresh Kumar









Assistant Professors (MCA) Mrs.E.Pragnavi Mrs.V.Sukanya

Dr.V.B.Narsimha Dr.B.Sujatha

Dr.M.A.Hameed







Dr.K.Pranitha Kumari Mr.K.Srinivas Reddy Mr.I.Govardhan Rao



Mrs.S.Radha Rani

Mr.M.Narendar

Mrs.C.Vani



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

1. 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.

2. 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		

3. Faculty Profile:

Faculty	Specialization		
Head of the Department			
Dr. P.V.Sudha, Cloud Computing, Grid Computing,			
M.Tech	Software Project Management		
Professors			
Dr. P.Premchand,	Image Processing		
M.Tech,Ph.D.	image Frocessing		
Dr. S.Ramachandram,			
M.Tech,Ph.D. Distributed Computing, Mobile Computi			
Vice Chancellor, O.U.			



Dr. C Camaan Estima		
Dr. S.Sameen Fatima,	Information Retrieval Systems, Machine	
MS, Ph.D.	Learning, Text Mining	
(Adjunct Faculty)	Parallel Processing Applications, Embedded	
Dr. K.Shyamala,		
M.Tech, Ph.D.	Systems, CAD algorithms,	
D., D.V.C., JL.,	Technology Mapping algorithms for FPGAs	
Dr. P.V.Sudha,	Cloud Computing, Grid Computing,	
M.Tech	Software Project Management	
Associate Professors		
Mr.M.Venkat Dass,	System Software, Discrete Mathematics	
M.Tech.	System Software, Discrete Hamematics	
Mr.S.Srinivas Rao,	Computer Graphics, Text Mining	
M.Tech.		
Mr.S.Ram Babu,	Computer Graphics, Discrete Mathematics,	
M.Tech	Design & Analysis of Algorithms	
Mr. L.K.Suresh Kumar,	Computer Networks, Network Security	
M.E.	Computer Networks, Network Security	
Assistant Professors		
Dr. V.B.Narasimha,	Computer Networks, Operation Research,	
M.Tech, Ph.D.	Software Engineering.	
Dr. B.Sujatha,	Operating Systems, Data Structures, DBMS,	
M.Tech, Ph.D	Web Programming, Natural Language Process	
Dr. M.A.Hameed,	Data Mining, Soft Computation, Big Data,	
M.Tech, Ph.D	Machine Learning, Data Science	
M ED :	Operating Systems, Embedded Systems, Data	
Mrs. E.Pragnavi,	Communication and Computer Networks,	
M.Tech	Network Security	
Mrs.V.Sukanya,	•	
M.Tech	Data Structures, Mobile Computing	
Assistant Professors (Con	tract)	
Mr.M.Narendar Reddy,	Computer Programming, Networks, Mobile	
M.Tech.	Computing	
Mr.K.Satyanarayana,	Distributed Systems, Cloud Computing,	
M.Tech.	Operating Systems, Software Engg.	
Mrs.S.Radha Rani,	Computer Networks, Network Security, Java,	
M.Tech.	Unix	
Mrs.K.Jaya ,	Database Management Systems, Web	
M.C.A.	Programming, MIS	
Mrs.C.Vani,	Accounts and Finance Management, Economic	
M.Com.	Analysis, Operation Research, E-Commerce	
Dr. K.Pranitha Kumari,		
M.Tech. Information Retrieval Systems, Data Minin		
Mr.K.Srinivasa Reddy,	Grid Computing, Cloud Computing, Database	
M.Tech.	Security, Data Structures	
Mr.I.Govardhan Rao,	Cloud Computing, Computer Graphics, C,	
ivii.i.Govarullali Kao,	Cloud Computing, Computer Graphics, C,	



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

4. Other Assignments to Faculty:

Prof P Premchand	Dean , Faculty of Informatics, Osmania University
	QIP Coordinator, Osmania University
Duof V Chyamala	Director for Center for Cyber Security and Cyber Law, OU
Prof K Shyamala	Director, University Computer Center, Osmania University
	Member, Telangana State Council of Higher Education
	Special Officer(Automation), UCE
Prof P V Sudha	Chairperson, BOS in IT,
	Chairperson, BOS in CSE (University).
Mr L K Suresh Kumar	Chairperson, BOS in CSE (Autonomous), OU
	Addl Controller of Examinations, Osmania University
Dr V B Narasimha	Special Officer (Maintenance), Warden,
	Swarnamukhi Hostel for Engg College Students.
Dr B Sujatha	MCA, Faculty Advisor
Dr M A Hameed	Director, Placement Cell, University College of
Di Wi A Halliceu	Engineering, Osmania University

5. 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.

6. Infrastructure:

The computing resources that are available in the Department include 9 servers and 239 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 / Appl ication Software
SERV			•	
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 & 3	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
4	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
5	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 6.9 / Oracle 12C
6	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
7	Compaq Proliant ML-110, G7, PII Processor, 2 GB RAM, 80GB HDD	НР	2	Linux/Win 2012
8	Silicon Graphics Prism, Intel Itanium 2 CPU's 8 GB RAM, 240 GB HDD	Silicon Graphics	1	SGI Adv Linux with SGI ProPack
LABO	LABORATORIES			
9	Six Software Labs with 35 PCs in each lab & Server Room	HP, Dell, & Lenovo	194	Linux Mint/ CentOS/ Windows
SOFT	WARE / PACKAGES			
10	Linux , MSDN, Oracle 12c, Different Compilers (C, C++ and Java) and			
			•	



S.No	Configuration	Make / Model	Qty	Operating System / Appl ication Software	
	Rational Rose				
Hardy	Hardware Kits				
11	Xilinx - SPARTRAN.		6 FPC	A boards	
12	Xilinx - VERTEX		5 FPG	A 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 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.

7. Project 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.

8. Library:

The Department has its own Library containing about 7028 volumes of books, 1500 reference books and 200 ACM journals 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 accessible online.

9. Department Achievement:

- 1. Department is recognized as QIP Center.
- Best UG project (2017) is awarded with a cash prize of Rs. 25,000/- by AMD
- 3. A 10-day Course on "Big Data Analytics for Humanitarian Cause" to be organized during 17th Nov- 05th Dec 2017.



Student Achievements:

- 1. National Level Technical Symposium (Infinity 2k19) was conducted during 9th -10th March 2019.
- 2. Mr A Vijender attended "MedImg-4th Annual work shop on Medical Imaging Techniques, post processing and clinical applications" from 13th April to 15th April 2018 at IIT Delhi under QIP/TEQIP-III
- 3. Vikram Simha Reddy and AbhishekVelidi(Final-year students) DE-Shaw US based Multinational Company- Rs29.5 Lakhs PA.

10. Papers Published during 2018-2019

Prof.S.Ramachandram

- S Pelluri, R Sirandas Energy Saving in Cloud by Using Enhanced Instance Based Learning (EIBL) for Resource Prediction - Sustainable Cloud and Energy Services, 2018
- 2. Srinivasa Reddy, K. and Ramachandram, S. (in press) "Cryptographic key management scheme for supporting multi-user SQL queries over encrypted databases", International Journal of Computer Aided Engineering and Technology, 2018.
- Prof S.Ramachandram and Mr. I .Govardhan Rao Key Management for Protection of health care data of multiuser using Access control in Cloud Environment" during 30-31 March 2019. received BEST PAPER AWARD

Prof S. Sameen Fatima

- Dr. S Padmaja, Prof. S Sameen Fatima, Mr. Sasidhar Bandu, "Textual Analysis of Big Data with Object Knowledge Model: A Knowledge Representation framework", Visleshana, Vol. 2 No. 2, January - March 2018.
- 5. Dr. Padmaja S, Prof. Sameen Fatima S, Sasidhar B, "Associating News Articles to Identify the Scope of Negation and Sentiments of Public Opinion", EECCMC, 28-29 Jan 2018.
- Dr. Sridevi Tumula, Prof. S. Sameen Fatima, "Probabilistic Graphical Models for Medical Image Mining Challenges of New Generation", Knowledge Computing and its Applications, ISBN: 978-981-10-8258-0, 2018.
- Dr. S Padmaja, Prof. S Sameen Fatima, B Sasidhar, Vaibhav S L, "Extracting greater semantics from texts with Object Knowledge Model", IEEE International Conference on Innovative Technologies in Engineering 2018, 11-13 April 2018



Prof.K.Shyamala

- 8. Prof.K.Shyamala, Mrs.Humera Shaziya and Raniah Zaheer, "Design and Implementation of ConvNet for Handwritten Digits Classification on Graphical Processing Unit" International Conference on Communication and Signal Processing, April 3-5, 2018, INDIA
- 9. Prof.K.Shyamala, Mrs.Humera Shaziya and Raniah Zaheer, "Automatic Lung Segmentation on Thoracic CT Scans Using U-Net Convolution Network" International Conference on Communication and Signal Processing, April 3-5, 2018, INDIA
- Dr K. Shyamala, "Energy Efficient Load Balancing Approach for Multipath Routing Protocol in Ad Hoc Networks" IEEE Intl conference Computing and Communications", Sikkim, India, during 24-28 Feb 2019

L. K. Suresh Kumar

- 11. Mr.L.K.Suresh Kumar has presented a IEEE paper entitled "Localized Encryption and Authentication Protocol (LEAP) to Prevent Injection of Malicious Nodes in a Wireless Sensor Network (WSN)" at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM) IEEE, New Delhi 12th INDIACom; 2018 5th International Conference on Computing for Sustainable Global Development on 14 16th March, 2018
- 12. Mr.L.K.Suresh Kumar has presented a IEEE paper entitled "Credit Card Fraud Prevention for Financial Institutions: Use of Anomaly Detection Method" at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM) IEEE, New Delhi 12th INDIACom; 2018 5th International Conference on Computing for Sustainable Global Development on 14 16th March, 2018
- 13. Mr.L.K.Suresh Kumar has presented a paper entitled "Comparative Study of Cluster Based Data Aggregation Protocols" at International Conference on Trends in Engineering, Management, Pharmacy & Sciences (ICTEMPS-2018) on 21st April, 2018, GCET, Cheeryala(V), Keesara (M), Hyderabad.

Dr B.Sujatha

Dr.B.Sujatha , ""An Efficient Classification Techniques for Text mining and its Application" International Conference on Data Engineering and Communication Technology(ICDECT) during 15-17 March 2019



Sukanya

- 15. E. Vishnu Priya Reddy, V.Sukanya, Abhinava Vinay Kumar M, Anil Kumar M "A Study on effective approach of Science Teaching by IOT Smart Classroom" International Journal of Research Culture Society Volume 2, Issue 3, March-2018.
- 16. E. Vishnu Priya Reddy, V.Sukanya, Abhinava Vinay Kumar M, Anil Kumar M "A Study on Expandable latest software feature in bundling of latest hardware with earlier software" International Journal of Scientific Research in Science and Technology Volume 4, Issue 5, March-2018.

11. Conferences/Workshops Organized:

- 1. A Two-day National Seminar on "Internet of Things and Data Analytics", 23rd -24th March 2018.
- 2. A three-day International Conference ICITE-2018 held at UCE, OU during 11th -13th April 2018.
- 3. Expert lecture on "Serverless Architectures" by Prof Jay Bagga, Professor in Computer Science and Engineering, Ball State University, Muncie, Indiana, USA on 13th July 2018
- Expert Lecture on "Privacy-preserving Data Mining: An overview " by Ravi Mukkamala, Professor and Chair, Department of Computer Science Old Dominion University , Norfolk, Virginia, USA on 20th July 2018
- 5. Three-day Faculty Development Program organized on "Big Data Analytics" during 2nd 4th August 2018
- 6. Three-day training program conducted on "VM ware Server Virtualization" during 29th -31th October 2018.
- Alumni talk on "LAMP Technology and MVC Architecture with PHP "by Mr G. Narsing Rao (M.Tech 2010 Batch) on 01st September 2018.
 Alumni talk on "GPUs Parallel Architectures" by Mr Avinash
- 8. Alumni talk on "GPUs Parallel Architectures" by Mr Avinash Tenali (M.Tech 2009) Senior Software Engineer, AMD Ltd on 6th Oct 2018.
- Guest Lecture on "Thinking Process and Development in Automation Tools" by Mr. Satyanarayan V (MCA 2004), Technical Lead, Deloitte on 5th Jan 2019
- 10. Guest Lecture on "Personality Development in Communication Skills"by Mr. Mr. Muralidar, (MCA 1992) Technical Lead, Deloitte on 2nd Feb 2019
- 11. Guest Lecture on "Trends in Machine Learning" by Dr Padmaja, (PhD 2016) on $12^{\rm th}$ Feb 2019
- 12. Workshop on "Hands-on Session on Python- 15 Hours" by Mr Jayendra and TEAM from Data Science Security during 14-20th March 2019



- 13. Two-day Intl Conference on Emerging Trends in Engineering ICETE2019 during 22nd -23rd March 2019
- 14. One –day workshop organized on "SAN Storage Device Hardware" on 26th March 2019
- 15. Expert Lecture on "Research Trends and challenges Neural Networks" on 5th April 2019 by Prof Yagnanarayana, Retd Professor, IIT Madras
- 16. Expert Lecture on "Deep Learning- Challenges" on 5th April 2019 by Prof B.Ravi Kishore, Professor, Dept of Statistics, Osmania University.
- 17. Expert Lecture on "Pandas Package modules in Python- Applications on 15th June 2019 by Ms Mounika, Thomson Reuters', Hyderabad
- 18. Expert Lecture on "NumPy Package modules in Python- Applications on 19th June 2019 by Mr Ramanathan, Connectz Technologies, Hyderabad
- 19. A Ten day Hands on Session on "Python Hands on Session" during 11th to 20th June 2019

12. Conferences/Workshops/Training Programmes attended:

Faculty

- Dr K.Shyamala attended INFYTQ- Infosys-Summit organized by Infosys, Mysore Campus on 5th Feb 2019
- Dr K.Shyamala presented paper at Intl conference Advanced Computational and Communication Paradigms (ICACCP) during 25-28th Feb 2019 at Sikkim Manipal Institute, Sikkim, India.
- 3. Dr K.Shyamala attended one-day workshop on "SLA Survey" organized by AICTE Delhi on 5th March 2019
- Mr.L.K.Suresh Kumar has participated in One Day Induction Program on 20th January, 2018 at University College of Engineering (A), Osmania University, Hyderabad – 500 007, Telangana, India Sponsored by TEQIP-III (Technical Education Quality Improvement Programme – Phase-III
- Mr.L.K.Suresh Kumar has attended TechFiesta 2018 on 14th July 2018 at Capgemini Technology Services India Limited, Gachibowli, Hyderabad.
- 6. Dr B.Sujatha, presented paper at Intl Conf on Data Engg and Communication Technology, Hyd during 15rd-16th March 2019.
- 7. Dr M A Hameed attended Refresher course on "cloud computing and virtualization" JNTUH during 4-23rd Feb 2019
- 8. V.Sukanya, attended One week STTP on "Simulation of Security Services in Cloud and IOT using Nmap and Wireshark" organised by Sreenidhi Engineering College during 18th -23 June 2018.



9. V.Sukanya attended ICITE-2018 conference held at University College of Engineering, Osmania University during 11th to 13th April 2018.

Research Scholars:

- 20. Sandhya attended Intl Conference on Innovative Technologies in Engineering (ICITE 2018) held at University college of Engineering, Osmania University during 11th 13th April 2018.
- 10. Sandhya presented a paper ," A Survey on Secure, Power and Energy Efficient Routing Protocols for AD-HOC Networks" in EECCMC-2018 Conference organized by Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi, Vellore District, Tamil Nadu, India.
- 11. S. Ganga attended ICITE-2018 conference held at University College of Engineering, Osmania University during 11th to 13th April 2018.
- 12. Sai Kumar attended a Workshop on "Cryptography and coding theory" at NIT Warangal during 28th Jan to 1st Feb 2019

13. R&D Projects/Consultancies:

 Dr K.Shyamala, Principal Investigator for project titled "Power Energy Aware Routing Protocols for Wireless Sensor Networks" Funded by SERB-DST Rs. 29.0 lakhs (2018-2021).

14. Future Plans:

- 1. Establishment of Specialized Labs for Cyber Security and Privacy.
- 2. To start PG Diploma in Data Science through Online Course through Center for Distance Education, Osmania University.







Sofware Lab-2Sofware Laboratory-1





Dept. LibraryRain Water Harvesting Pits









DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING





TEACHING FACULTY

Professors



(Head)



Dr. B. Rajendra Naik

Associate Professors



Dr. R. Hemalatha



Dr.L.Niramala Devi



Dr. D. Ramakrishna



Dr.P.Naveen Kumar



Mrs.P.Koti Lakshmi

Assistant Professors



Mrs. P. Padma



Mr.M. Shyam Sunder Mr. Md.Misbahuddin

Mrs. P. Srividya





Dr. A. Bharathi



Dr. R. Sandhya



Mr. K. Prem Kumar Mr. R. Narendar Reddy



Mr. B. Ramesh



Mr.G.Kishore Kumar



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. Vision & Mission:

To be in the forefront of advances in Electronics and Communication Engineering education and research to guide and motivate young engineers to face future technological challenges.

3. Mission of the Department

- To inculcate analysis and design for innovative problems in the field of Electronics and Communication Engineering with the help of state of art curricula.
- 2. To impart practical training to face real life case studies and interdisciplinary simple solutions to complex problems.
- 3. To make engineering education an enjoyable learning experience through challenging tutorials, mini-projects, assignments and laboratory exercises.
- 4. To build project team spirit for professional working environment with high ethical values
- 5. To develop overall character that will care for the society and concerned for the Nation through extra-curricular activities



4. Acadamic Programmes

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.

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 and so far **53** students have been awarded with Ph.D. degree.

5. FACULTY:

S.No.	Name of the Faculty	Field of Interest			
Profess	Professors				
	Dr. P. Chandrasekhar	VLSI and Embedded Systems.			
1.	Ph.D	Parallel Processing and			
	HEAD	Numerical Techniques.			
2	Dr. B. Rajendra Naik	VLSI design, Electronics			
	Ph.D	Devices, Image Processing			
Associa	te Professors				
3	Dr. R. Hemalatha	Embedded Systems, Wireless			
3	Ph.D	Communication,			
4	Dr L. Nirmala Devi	Signal Processing & wireless			
4	Ph.D	sensor Networks			
5 Dr. D. Ramakrishna RF & Microwave		RF & Microwave			
3	Ph.D	Communication Systems			
6	Dr. P. Naveen Kumar	Global Positioning System and			
O	Ph.D	Satellite Communication			
7	Mrs. P. Kotilakshmi	VLSI design, Digital systems &			
/	M.E.	Communication systems.			
Assista	nt Professor				
8	Mrs.P. Padma	VLSI Design, Testability,			



	M.Tech	Communication System and
		Mixed Signal design
9	Mr. M. Shyam Sunder M.Tech	Signal Processing, Microwave
10	Mr. Md. Misbahuddin	VLSI Design, Analog
10	M.E	Electronics, Microprocessors
	Dr. A. Bharathi	Microwave Antenna RF and
11	M.E	Microwave Engineering EM
	M.E	wave theory
12	Dr. R. Sandhya	Wireless Communications,
1.2	M.E	Optical Communication
13	Mrs. P. Srividya	Signal Processing, Wireless
13	M.E	Communications
Assista	nt Professors (Contract)	
14	Mr. B. Ramesh	VI CI design
14	M.Tech	VLSI design
15	Mr. K. Prem Kumar	Wireless Communication
13	B.E	w ireless Communication
1.6	Mr.R. Narender Reddy	Missassas Automos
16	M.E.	Microwave Antennas
17	Mr. G. Kishore kumar	Crystams and Cional Duagassiss
17	M.E.	Systems and Signal Processing

6. 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.

7. 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.

TEOIP - 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 attended Intensive Training Programmes and International Conferences and organizing short term courses.

The Department is procured state of art lab equipment and software tools such as Cadence, Tanner, Matlab, Simulink, HFSS, Spectrum analyzer, Lab View, ORCAD, ARM DSP boards, Seven Digital Storage Oscilloscopes, Server for VLSI Lab, 4 LED Projectors, Printer with Scanning facility, 17 Desktop Computers and Computer tables and Chairs.

TEQIP Phase – III

The Department Procured TI DSP Boards, QualNet Software, Vx-Works(RTOS) 7 plus platform, Workbench for system analysis, one processor family and one BSP node lock (Intel Architecture), ZedBoard Zynq-7000 ARM/FPGA SoC Development Board, RF Vector Network Analyzer, Single frequency GNSS/SBAS Receiver with receiver independent exchange data format, Xilinix Vivado software, NAVLAN-IG3

Advanced GNSS Research Laboratory(AGRL)

The 'Advanced GNSS Research Laboratory' (AGRL) has been established in the Department of Electronics and Communication Engineering, under the MoU between Space Applications Centre (SAC), ISRO and UCE, OU. This laboratory was inaugurated by former Chairman ISRO, Shri.A.S.Kiran Kumar on 27th April 2017.

This lab has the State of the art equipment, related to Indian Regional Navigation Satellite Systems/Global Navigation Satellite Systems/Satellite based Augmentation System. In this advance laboratory, continuous satellite data acquisition is carried out. This data is in turn



provided to SAC, ISRO and is also being used for carrying out BE and ME projects and Ph.D scholars research work. The Major research project sanctioned by ISRO is also in progress, under the guidance of Principal Investigator, Dr.P.NaveenKumar and other projects are being successfully completed.



Research Scholars Room

Synthesis and Embedded Systems Laboratory

Vx Works (RTOS) 7 plus platform, Workbench for system analysis, one processor family and BSP node lock (Intel Architecture).

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 Limited, 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
1	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
3	Make: Scientech, Model: ST2271
4	GPS Trainer kit
4	Make: Kencraft, Model: KE – GPS -01
5	GPS/GSM Integration Kit
3	Make: Keil. Model: MCB – 1750
6	Data Acquisition System
0	Make: NI, Model: PXIe – 1062Q
7	Rover, Base Station, VHF –UHF System
/	Make: SOKKIA Model: GRXI

CV Raman Heterogeneous High Performance Parallel Computing LabDepartment 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".

8. 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 (17) Advanced GNSS Research Laboratory (AGRL)

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

9. Infrastructure

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

Software

- Agilent Advanced Design Systems (ADS)
- AWR Microwave Office and Visual System simulated
- 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.
- Xilinix Vivado software

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

 2
- Advanced Micro-strip Trainer Kit.
- Anritsu MS2720T Spectrum analyzer (9 KHZ 20GHZ)
- 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.
- VDSPU Blackfin and SHARC Processors.
- Power Meters.
- Xilinx ALTYS 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
- Digital Storage Oscilloscope
- Single frequency GNSS/SBAS Receiver with receiver independent exchange data format. NAVLAN-IG3
- ZedBoard Zynq-7000 ARM/FPGA SoC Development Board

10. LIBRARY FACILITIES

The Department Seminar Library has the following:

1	Text Books	6547
2	Ph.D. Thesis	65
3	ME Project reports	1304
4	B.E Project reports	1056
5	IAP Reports	295
6	Lecture Notes	184
7	General Seminar Reports	403
8	CDs	184
8	Old Bound Journals	209

11. Achievements:

Recognitions

UG program of the department has been granted accreditation for 3 years up to 30-06-2022 by National Board Accreditation. (NBA) in 2018. The Department is also ISO 9001 certified. Andhra Pradesh State Council for Higher Education has graded this Department with 7.9. Three Teachers of the Department received the state awards and one faculty member received "Vishveshwarayya" Award from Institution of Engineers and an IETE award in the year 2009. The Department has also contributed learning modules in the SONET program in the areas of Communication Engineering, DSP and Network Theory.



12. Publication: Conference Publications

1.Prof	1.Prof. P. Chandrasekhar				
S.N 0.	Title of the Paper	Conference details	Month & Year of Publishin g		
1	Performance Analysis of Hybrid Companding PAPR Reduction Method in OFDM Systems for 5G Communications	9 th ICCNT 2018, IISC, Bengaluru, India,DOI: 10.1109/ICCCNT.2018.84 94075	July 2018 -		
2. Pro	f. B. RajendraNaik				
1	Image Security with Compressive Sensing and Fractional Wavelet Transform	IEEE Third International Conference on Circuits, Control, Communications and Computing(I4C-2018)", 3-5, Bangalore, India, 2018.ISBN:978- 1-5386-8486-3	October 2018		
2	Polar Code and Polarization using Bhattacharya Parameter	IEEE Annual Information Technology, Electronics and Mobile Communication Conference, ISBN: 978-1-5386-7266, 2018 IEEE Canada 2018. DOI: 10.1109/IEMCON.2018.8615 026	17-19 October 2018		
3	Performance Analysis of Adaptive Beamforming Algorithms	IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), India	21-22 December 2018		
4	Analysis of Crosstalk Noise for Coupled Microstrip Interconnect Models in High Speed PCB Design	ICEIC 2019. International Conference on Electronics, Information, and Communication (ICEIC) 2019. / Pullman Auckland, New Zealand, 2019(Presented).	22- 25 January 2019		
5	Modelling of Capacitive Coupled Interconnects for Crosstalk Analysis in High Speed VLSI Circuits	IEEE International Conference on Communication and Signal Processing – ICCSP2019, India (Accepted)	04-06 April 2019		
3. Dr.	R. Hemalatha	International Conf.	1		
1	Automatic Garbage Collection and Dumping System- A Novel Design using Arduino and my RIO	International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering, School of Electrical Engineering, Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha.	July 2018		
2	Dynamic Neural networks with semi empirical model for mobile radio path loss	ICETE conference organized by UCE,OU (ISSN – 2662- 3447)	22-23 March 2019		
3	Throughput and Spectrum	ICETE conference organized by	22-23		



	Sensing Trade-off by Incorporating Self – InterferenceSuppression for Full duplex Cognitive Radio	UCE,OU (ISSN – 2662- 3447)	March 2019
4	Towards 5G: A Survey on Waveform Contenders	ICETE conference organized by UCE,OU (ISSN – 2662- 3447)	22-23 March 2019
5	Performance Assesment of M-ary ASK,FSK,PSK, QAM and FQAM in AWGN Channel	2019 IEEE International conference on Communication and Signal Processing DOI: 10.1109/ICCSP.2019.8697922	4-6 April 2019
4. Dr.	L. Nirmala Devi		
	Coverage-		20-24
1	ConstrainedUtilityMaximizationo fUAV	IEEE ICC 2019 at Shanghai, china	May 2019
	Secure and composite Routing	IEEE IESC 2019 at NIT Meghalaya,	1 -2
2	strategy through clustering in WSN	Shillong.	March 2019
	Live Demonstration on Smart		28-31
3	Water Quality Monitoring System	IEEE sensors 2018 at New Delhi	October
	using Wireless Sensor Networks	(ISBN:978-1-5386-4707-3)	2018
5.Dr.	D. Ramakrishna		
	Design of Substrate Integrated	IEEE Indian Conference on	16-19
1	Waveguide Slot Array Antenna at	Antennas and Propagation (Incap	December
	X-Band	2018), Hyderabad, India.	2018
	Design and Analysis of Wide	IEEE Indian Conference on	16-19
2	Band Dual Circularly Polarized	Antennas and Propagation (Incap	December
	Dielectric Resonator Antenna	2018), Hyderabad, India	2018
	Design and Analysis of Planar	IEEE Indian Conference on	16-19
3	Substrate Integrated Waveguide	Antennas and Propagation (Incap	December
	Horn Antenna	2018), Hyderabad, India.	2018
	Gain Enhancement of Microstrip	IEEE Indian Conference on	16-19
4	Patch Antenna Using Ultrathin	Antennas and Propagation (Incap	December
-	Metasurface Lens	2018), Hyderabad, India. IEEE International Microwave and	2018
	Mitigation techniques for phase	RF Conference 2018	28-30
5	noise degradation under vibration	(IMaRC 2018),	Novembe
	of microwave sources for airborne	Kolkata,India.ISBN: 978-1-5386-	r 2018
	radar applications	1320-7.	
6	Design of Broadband and Low profile Microstrip Patch Antenna using Strip Slot Hybrid Structure	80th Anniversary of Suan Sunanda Rajabhat University "International Conference on Innovation, Smart Culture and Well-Being (ICISW- 2018), Bangkok, Thailand.	Novembe r 2018
6. Dr.	P. Naveen Kumar		
1	IRNSS and GPS Satellite User Range Accuracy Analysis for Receiver Autonomous Integrity Monitoring	20th National Space Science Symposium (NSSS – 2019), Sponsored by ISRO,2019, SAVITHRIBAIPULE Pune University, Pune, Maharashtra, India.	29-31 January 2019
2	Comparative Performance	20th National Space Science	29-31
	Comparative removing	2000 Practicinal Space Science	27 31



	analysis of GALILEO and NAVIC at low latitude station	Symposium (NSSS – 2019), Sponsored by ISRO,2019, SAVITHRIBAIPULE Pune University, Pune, Maharashtra, India.	January 2019
3	Comparison of VTEC due to IRI- 2016 Model and IRNSS over low latitude region	IEEE International Conference on Emerging Trends in Engineering (ICETE).University College of Engineering, Osmania University, Hyderabad, Telangana, India.	22-23 March 2019
4	Positioning parameters for stand- alone and Hybrid modes of the Indian NavIC System: Preliminary Analysis	IEEE International Conference on Emerging Trends in Engineering (ICETE),University College of Engineering, Osmania University, Hyderabad, Telangana, India.	22-23 March 2019
5	Prediction of Differential GPS Corrections using AR and ARMA Models	IEEE International Conference on Emerging Trends in Engineering (ICETE),University College of Engineering, Osmania University, Hyderabad, Telangana, India.	22-23 March 2019
6	IRNSS User Range Accuracy Evaluation for Receiver Autonomous Integrity	URSI Asia Pacific Radio Science Conference, New Delhi	9-15 March 2019
7	Prelimanary Investigation of Generation of US-Bases GPS Signal	Innovations in Electronics and Communication Engineering, Lecture nots in Networks & Systems, Pg.No.271-278	Jan,2019
8	A Brief Review on Satellite Navigation Systems	AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh.	9 – 11 Novembe r 2018
9	Estimation of GNSS Receiver bias using fitted receiver(FRB) Method	80th Anniversary of Suan Sunanda Rajabhat University "International Conference on Innovation, Smart Culture and Well-Being (ICISW- 2018), Bangkok, Thailand.	Novembe r 2018
10	Preliminary Analysis of IRNSS L5 and S1 Signals for Indoor and Outdoor Environments	AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh	9 – 11 Novembe r 2018
11	Comparative Analysis of ionospheric TEC due to multiconstellation navigation signals with IRI-2016 Model Over Indian Region	AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh	9 – 11 Novembe r 2018
12	"IRNSS 1A: Specific Issues and Applications	AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh	9 – 11 Novembe r 2018
13	Receiver bias estimation of Indian	AP Science Congress-2018, Jointly	9 – 11



	GAGAN system using FRB	Organized by Andhra Pradesh	Novembe
	Technique for equinox days:	Akademi of Sciences and Yogi	r 2018
	Preliminary results	Vemana University, Kadapa,	
		Andhra Pradesh	
14	Tracking and analysis of IRNSS and GPS Satellite using IGS Receiver for Rainy and Sunny days	AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh	
7. Dr.	A. Bharathi		
	A Compact Microstrip-line Fed	IEEE Indian Conference on	16-19
1	Meandered Inverted F-MIMO	Antennas and Propagation (Incap	December
	Antenna	2018), Hyderabad, India.	2018
	Design of Waveform for Airborne	International Conference on	22-23
2	Radar inSea Clutter	Emerging Trends in	March
	Environment",	Engineering(ICETE 2019),	2019.
9. Dr.l	R.Sandhya		
	Design and Analysis of a Planar	IEEE Indian Conference on	16-19
1	Substrate Integrated Waveguide	Antennas and Propagation (Incap	December
	Horn Antenna	2018), Hyderabad, India.	2018
2	Design and Analysis of a Wideband Dual Circularly Polarized Dielectric Resonator Antenna	IEEE Indian Conference on Antennas and Propagation (Incap 2018), Hyderabad, India.	16-19 December 2018
3	LOS Rate estimation using Extended Kalman Filter	International Conference on Emerging Trends in Engineering(ICETE 2019),	22-23 March 2019.

Journal Publications

1. Prof	1. Prof. B. RajendraNaik				
S.No.	Title of the Paper	Journal details	Month & Year of Publishing		
1	Rician Noise Reduction using Dual TreeComplex Wavelet Transform and Self similarity	International Journal of Imaging & Robotics, Volume 19, Issue Number 3, h index 9, ISSN 2231-525X	2019		
2. Dr. 1	R. Hemalatha				
1	A Review of Vulnerabilities of ADS-B	International Journal of Research in Advent Technology, Vol.6, No.7, (E-ISSN: 2321-9637)	July 2018		
3.Dr. 1	D. Ramakrishna				
1	Design and Development of Cavity-Backed Reconfigurable Square Spiral Antenna	IETE Journal of Research, DOI: 10.1080/03772063.2018.1509737.	August 2018		
2	Design and Development of a	Progress In Electromagnetics Research M, Vol. 72, 105–114,	August 2018		



	Novel EBG Cell	2018.doi:10.2528/PIERM18041805				
4. Mrs.	4. Mrs. P. Kotilakshmi					
1	Design of low noise amplifier for C-band receivers using pHEMT	International research journal ofengineering and technology (IRJET), Vol 05, Issue 08 e-ISSN: 2395-0056 p-ISSN: 2395-0072	August 2018			
4.Dr.P.	Naveen KumaR	p 1881 11 2890 0072				
1	Investigation of User Position Accuracy for Stand-Alone and Hybrid Modes of the Indian Navigation with Indian Constellation Satellite System",	International Journal of Electronics and Communication Engineering ,Volume:12, Issue No:7	2018			
6. Dr. A	A. Bharathi					
1	Polarization Reconfigurable Corner Truncated Square Microstrip Array Antenna	IETE Journal of Research DOI: 10.1080/03772063.2018.1557084	January 2019			
2	Reconfigurable Corner Truncated Square Microstrip Patch Antennas for Wireless Communication Applications	IETE Journal of Research, DOI: 10.1080/03772063.2018.1478326	June 2018			
3	Polarization Reconfigurable Corner Truncated Square Microstrip Array Antenna	IETE Journal of Research, DOI: 10.1080/03772063.2018.1557084.	Jan 2019			

13. Workshop/ Seminar attended

1. Dr. P. Naveen Kumar has visited Suan Sunandha Rajabhat University (SSRU), Thailand on November 2018 and had technical discussion and presentation.

14. Guest Lectures Delivered

S.No	Topic	Venue	Date
Dr.R.l	Hemalatha		
1	Embedded Systems	Hyderabad,Stanley college of Engineering & Technology	15 th September,2018



2	Embedded Systems	Hyderabad	30 th October,2018
	Naveen Kumar		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1	Navigation with Indian" Constellation	MIT-ADT University, School of Engineering, Pune, Maharashtra	Jan 30 th ,2019
2	GPS/GNSS	IEEE CIS/GRSS Joint Chapter Hyderabad Section, Twoday Workshop on GIS Concepts for Remote sensing applications, BVRIT	8 th -9 th Jan 2019
3	Space Communications	NASA and ISRO Activities, Ravindra Bharathi International School, Hyderabad, India	10 th Jan 2018
4	Indian Regional Navigation Satellite Systems (IRNSS) and its Applications	7th International Conference on Innovations in Electronics and Communications Engineering (ICIIECE-2018), Guru Nanak Institutions Technical campus	July 28, 2018
5	Principles of GNSS, Applications and Research Areas	Organized by Adavanced GNSS Research Laboratory, Dept of ECE	5 TH June 2018
6	Research Methodologies and Opportunities in Communication Engineering	One-week FDP Training program FDP Training program Organized by Dept of ECE, UCE, OU	25 th April 2018
7	"IRNSS/NavIC"	One Week Faculty Development program on "5G and GNSS Positing", Organized by Department of ECE, Geethanjali College of Engineering and Technology.	June 17-22,2019
Dr.A.	Bharathi		
1	Microwave Engineering	CMR Engineering College	1-11-2018
2.	Introduction to EM Theroy and Wave Propagation	GRIET	5-07-2018
Mr. N	ld. Misbahuddin		
1.	Role of Science, Technology and Innovation in Sustainable development in India RamaKrishna	Hindi Mahavidyalaya, Nallakunta	30 th & 31 st Jan 2019
Dr.D.	Namarafishha	University Call	
1	Microwave Engineering	University College of Engineering and Technology, Mahatma Gandhi University, Nalgonda, India	14-06-2018
2	Reconfigurable	All India Shri Shivaji	01st and 02nd February



	Antennas and Its Applications	Memorial Society's Institute of Information Technology,Pune, India	2018
3	Design of Reconfigurable Antennas	GokarajuRangaraju Institute of Electronics and Technology,Hyderabad, India	27 th June to 03 rd July 2018

15. Guest lecturers organized

S.No	Name	Date	Торіс
1	Mrs. Uma Devi, Deputy Director, NRSA	11-03-2018	Space Communication
2	Mr. ChinnaPrudhvi , Senior Principal Engineer, Intel	8-07-2018	What does it take to get SoC products to Market
3	Dr. Ashish PandhariPande	31-07-2018	Cognitive radio and Location Based services
4	Dr. Ashish PandhariPande	31-07-2018	Scientific Dissemination: Publication and Intellectual Property

16. Research Projects

Name	Title	Duration	Amount	Funding Agengy
Prof. P. Chandrasekhar	Design and Development of IP Core for SDR/GNSS Receiver using VHDL/Verilog	1 Years	Rs.9.90 Lakh	RCI
Prof. B.RajendraNaik	Advance TERCOM Aided Inertial Navigation System by Velocity and Position Corrections.	1.2Years	Rs.9.43 Lakh	RCI DRDO
Prof. B.RajendraNaik	Non-Invasive Measurement of Hemoglobin for Rural India using Artificial Intelligence Algorithms	3Years	44.33 Lakhs	SERB-DST

17. Memberships of Faculty Members

Dr. R. Hemalatha	FIETE
Dr. L.Nirmala Devi	Optical society of India(OSI) IEEE
Mrs. P. Padma	MIEEE
Dr. D. Ramakrishna	MIEEE, MIETE, MIE, MISSS, MISTE
Dr. P. Naveen Kumar	MIEEE, MIACSIT, MISOI, MBES,
	MISTE, FIETE
Mrs. P. Kotilaxmi	MIETE



Mr. Md. Misbahuddin	MIETE, MISTE
Mr. M. Shyam Sunder	MIETE
Mrs. A. Bharathi	MIETE, MIEEE

18. 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.
 - o 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.
 - o Sponsor projects to students and faculty.

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





Research Scholars Lab





Synthesis and Embedded Systems Laboratory



Department Library



Aakruthi



TI DSP BOARDS



Hand held Vector Analyzer



Single frequency GNSS/SBAS Receiver ZedBoard Zynq-7000 ARM/FPGA SoC









Communications Lab





CV Raman Heterogeneous Computing Lab





Electronics Lab



Microprocessor Lab







JC Bose RF & Microwave System Simulation Lab





Centre for Excellence in microwave Engineering





Digital Circuits Lab





VLSI Lab



DEPARTMENT OF ELECTRICAL ENGINEERING





TEACHING FACULTY





Dr. G. Yesuratnam



Dr. M.Manjula



Dr. B.Mangu

Professors



Dr. G.Mallesham



Dr. P.Srinivas

Associate Professors



Mr. M.V. Ramana Rao



Dr. E. Vidya Sagar

Associate Professors



Dr. P. Satish Kumar





Mr.CH.Siva Kumar Mrs. G. V. Naga Lakshmi Mrs. E.Sreeshobha





Mr. R. Linga Swamy



Dr. N. Susheela



Mr. P. Lokender Reddy



Mrs. N. Srilatha



Dr. B. Sirisha



Dr. J. Upendar



Assistant Professors (Contract)





Mrs. G. Jhansi Rani Mr. S. Vijender Reddy



Mr. G. Srikanth



Mr. G. Kiran Kumar



Research Lab for Mulitilevel Inverters

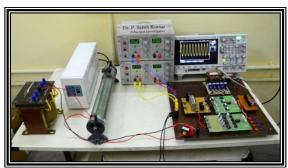
(Established by Dr. P. Satish Kumar)



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)



DEPARTMENT OF ELECTRICAL ENGINEERING

Phone No.: 040 - 2709 8628, 2768 2382

1. About the Department

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 twenty parmenent 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 programmes, delivering expert lectures at various conferences and important seminars, chairing technical sessions at conferences abroad and reviewing of papers of good quality journals.

2. Academic Programmes

2. Readefine Frogrammes				
Programmes	Full-Time / Part-Time	Year of starting	Duration	Intake (2016-17)
B.E. (Electrical & Electronics Engineering)	Full-Time	1949	4 Years	60+ 10% FS
 M.E. (Electrical Engineering) Industrial Drives & Control Power Systems Power Electronic Systems 	Full-Time	1971 1971 2008	2 Years	48 + 10 FS
M.E. (Electrical Engineering) 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



3. 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
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.
Dr. G. Mallesham M.Tech., Ph.D., Post Doc. Head of the Dept.	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
Associate Professors	ı
Mr. M.V. Ramana Rao M.Tech., (Ph.D.)	Power Electronics, Electric Drives & Special Machines
Dr. E. Vidya Sagar M.E., 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
Assistant Professors	1
Mr. CH. Siva Kumar	Renewable Energy Sources, Power Systems Optimization,
M.E., (Ph.D.)	Deregulated Power Systems, HVDC Transmission
Mrs. G.V. Naga Lakshmi	Electrical Power Engineering, Deregulation of Power
M.Tech., (Ph.D.)	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
Dr. N. Susheela M.E. Ph.D.	Power Electronics & Drives, Special Machines
Dr. E. Vidya Sagar M.E., 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
Dr. B. Sirisha M. Tech., (Ph.D.)	Power Electronics, Electric Drives & Special Machines
Dr. J. Upendar M.Tech., Ph.D (IIT R)	Power System, Protection, Power Electronics, Drives, FACTS devices, Artificial Intelligent Techniques
Mrs. U. Suryavalli, M.Tech, (Ph.D)	Power Electronics and Machine Drives



Assistant Professor(C)		
Mrs. G. Jhansi Rani	Power Electronics and Industrial Drives	
M.Tech., (Ph.D.)	Fower Electronics and industrial Drives	
Mr. S. Vijender Reddy	Electrical Power Systems	
M.Tech., (Ph.D.)	Electrical Power Systems	
Mr. G. Srikanth	Electrical Power Systems	
M.Tech., (Ph.D.)	Electrical Power Systems	
Mr. G. Kiran Kumar	Electrical Davier Systems Delichility Engineering	
M.Tech., (Ph.D.)	Electrical Power Systems, Reliability Engineering	

4. Laboratories in the Department

- Electrical Circuits Lab
- Measurements Lab
- DC Machines Lab
- AC Machines Lab
- Control Systems Lab
- Digital Electronics & Integrated Circuits Lab
- Power Electronics Lab
- Power Systems Lab
- Microprocessor & Micro Controllers Lab
- Electrical Simulation Lab
- Programmable Logic Controllers Lab
- Drives Lab
- Power Electronic Systems Lab
- Multi Level Inverters Lab

5. Major Equipment available in the Laboratories

- 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
- Numerical Relays
- Feeder Protection Unit
- Induction and Synchronous machines with power electronic controls
- Wind Emulator



6. 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

7. Faculty Awards/ Honours

Prof. P. V. N. Prasad	 Awarded 'Dr. Rajendera Prasad Memorial Prize' by Institution of Engineers (India) in 1994 Included in 'Marquis Who's Who in the World', 2010 Edition
Prof. B. Mangu	• Joint student travel grant of IEEE Industry Applications Society (IAS) and IEEE Power Electronics Society (PELS) for attending the 2014 IEEE Energy Conversion Congress and Exposition (ECCE), Pittsburgh, Pennsylvania, USA.
Prof. G. Mallesham	 Postdoctoral Fellowship position in the Center for System Science in the Electrical Engineering Department at Yale University, USA (under top 10 rank in the world), 2014. Raman Fellowship for Postdoctoral Research for Indian Scholars in United States to be awarded by University Grants Commission (UGC), 2014. POSOCO power system award 2013 (Power System Operation Corporation) under the doctoral category for the work on "Frequency Control of Smart microgrid and a future necessity of Indian power system". ISCA Young engineer presentation (2013), on "Photovoltaic based Green Sources for Addressing the Energy Needs and Enhancing Energy Security to the Agricultural Sector".
Dr. P. Satish Kumar	 Received "Best Teacher Award-2014" from the State Government of Telangana, on 5th September, 2014. Received "Certificate of Merit" for the presentation of research paper in the "International Conference on Electrical Engineering and Applications 2013", University



	of California, San Francisco, USA.		
	• Received "Fast Track Scheme for Young Scientist		
	Award" from the Science and Engineering Research		
	Board (SERB), New Delhi, in the year 2013.		
	• Received "Award for Research Excellence – 2014"		
	Received "Global Teacher Role Model Award-2015".		
	• Received "Certificate of Excellence" for the presentation		
	of research paper in the International Conference on		
	Emerging Trends in Electronics, Electrical and		
	Mechanical Engineering (ICEEME2018) held at Bhopal,		
	India.		
Dr. N. Susheela	• Received "Certificate of Excellence" for presenting research paper in the 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-2016) held at Indian Institute of Technology, Banaras Hindu University, Varanasi, U.P, India during 9th – 11th December, 2016 and received cash prize towards second best paper award in Track EE-2: Power Electronics and Drives.		
	Received "Banjara Keerthi Puraskar", Banjara Theej Mela-2018 in appreciation for PhD awarded on 29.08.2018 at Ravindra Bharathi, Hyderabad.		

8. Sponsored Projects

Title of The Sponsored	Funding	Amount	Name of	Status
Research	Agency		Faculty	
Design and Development of	Indo-Sri Lanka	Rs.24,4	Dr. P.	In
Hybrid Wind-Solar Power	Joint Research	2,800/-	Satish	Progre
Generation System using	Project,		Kumar	SS
Multilevel Inverters for	Department of			
Grid Connected	Science and			
Applications	Technology			
	(DST), New			
	Delhi			
Integrated PV-Wind-	Department of	Rs 5.0	Prof. B.	In
Battery based Stand-alone	Science &	lakhs	Mangu	Progre
Single-phase System for	Technology,			SS
Household Application	New Delhi			
Implementation of	Department of	Rs 5.0	Dr. P.	In
bidirectional DC – DC	Science &	lakhs	Srinivas	Progre
converter	Technology,			SS
	New Delhi			
Design and implementation	Department of	Rs 5.0	Dr. J.	In
of transmission line	Science &	lakhs	Upendar	Progre
simulator laboratory model	Technology,			SS



	New Delhi			
Investigation,	UGC – Major	Rs. 8.49	Dr. P.	Compl
Implementation &	research project	lakhs	Satish	eted
Performance Evaluation of			Kumar	
Cascaded Multi level				
Inverter using SVPWM				
algorithm				
Performance Evaluation of	Department of	Rs. 20.1	Dr. P.	Compl
Diode-clamped Multi level	Science &	lakhs	Satish	eted
Inverter using Space Vector	Technology,		Kumar	
Pulse Width Modulation	New Delhi			
Mitigation of harmonics in	TEQIP-II	Rs 1.0	Dr. M.	Compl
a non- linear load		lakh	Manjula	eted
Grid Connected PV-Wind-	TEQIP-II	Rs 1.0	Dr. B.	Compl
Battery Based Multi-Input		lakh	Mangu	eted
Transformer Coupled				
Bidirectional DC-DC				
Converter For Household				
Applications				
Reliability Improvement of	TEQIP-II	Rs 1.0	Dr. E.	Compl
Distribution Systems using		lakh	Vidyasaga	eted
Fault Passage Indicators			r	

9. Research publications of faculty

Publication	Title	Year		
Prof. P.V. N. Prasad				
International Conference on Innovative Technologies in Engineering	Reliability Improvement of Transmission System with Incorporation of Unified Power Flow Controller	2018		
IEEE sponsored International Conference on Electronics, Computers, Communication, Mechanical and Computing	Implementation of Load Flow Based Reliability Indices Evaluation Methods and Comparison with Constant Capacity Based Reliability Indices Evaluation for Three Bus Systems	2018		
International conference on Trends in engineering Management Pharmacy and sciences ICTEMPS (Journal on Electrical Engineering)	Identification of optimal operating condition of Six bus system based on reliability evaluation	2018		
	Prof. G. Yesuratnam			
International Conference on Advancing knowledge from Multidisciplinary Perspectives in Engineering	Congestion Management Considering Economic and Efficient Generation Rescheduling	2019		



& Technology 5 th – 6 th	Г			
April, 2019				
International Conference on	Machine Learning Based Prediction			
Emerging Trends in	Model for Monitoring Power System	2019		
Engineering (ICETE)	Security	2019		
International Conference on	Comparison of State Estimation Process			
Emerging Trends in	on Transmission and Distribution	2019		
Engineering (ICETE)	Systems	2017		
Indonesian Journal of	A modified bacterial foraging			
Electrical Engineering and	algorithm based optimal reactive	2019		
Computer Science Vol. 13	power dispatch	2017		
International Conference on	Locational Marginal Price Based			
Innovative Technologies	Optimal Location of UPFC for Power	2018		
in Engineering	System Security Improvement	2010		
International Conference on				
Innovative Technologies	A Modified Algorithm for Power	2018		
in Engineering	System State Estimation	2010		
in Engineering	Prof. M. Manjula	l		
International Conference on	-			
Emerging Trends in	Condition Assessment of Composite Insulator removed from Service	2019		
Engineering (ICETE)	Insulator removed from Service			
International conference on	Coloulation of valtages and never lesses			
Emerging trends in	Calculation of voltages and power losses with multiple DG units with change of	2019		
engineering (ICETE) 22-23	load	2019		
March, 2019.	Toad			
International Conference	Optimal Planning of Multiple Distributed			
Innovative on Technologies	Generation Units in Distribution Network	2018		
in Engineering (ICITE-	using Ant Colony Search Algorithm	2010		
2018)- 11 th - 13 th April, 2018.	, ,			
Prof. B. Mangu International Conference on Visit August 1977 (1977) 1977 (197				
Emerging Trends in	Unified Simulation Test Facility for	2019		
Engineering (ICETE)	Aerospace Vehicles	2019		
Engineering (ICETE)	Prof. G. Mallesham	l		
ICITE 2019, University				
College of Engineering,	Power Quality Improvement of Weak	2010		
Osmania University, 22 nd -	Hybrid PEMFC and SCIG Grid Using	2019		
23 rd March, 2019	UPQC			
International Conference on	Comparative Analysis of a New Three			
Electrical, Communication,	Phase Diode			
Electronics, Instrumentation	Clamped Seven Level and Eleven Level			
and Computing (ICECEIC)	Multilevel	2019		
-2019, Kanchipuram,	Inverter Based PMSG with IGBTs and			
Tamilnadu, India, Jan -2019	GTOs Connected to Grid			
International Conference on	Enhancement of Power Quality using	2019		
Electrical, Communication,	UPQC for Hybrid SOFC and SCIG			



Electronics, Instrumentation and Computing (ICECEIC) -2019, Kanchipuram, Tamilnadu, India, Jan -2019	based Wind energy system connected to weak grid	
2018 IEEE International Conference on Innovative Smartgrid Technologies (ISGT ASIA 2018), May 22-25, Singapore	Enhancement of Power Quality using UPQC for Hybrid SOFC and DFIG based Wind Energy System Connected to Weak Grid	2018
International Conference on Innovative Technologies in Engineering	Multi objective Micro genetic Algorithm Based Planning and Sizing of Distributed Generation with Different Load Models	2018
International Conference on Innovative Technologies in Engineering	Neuro Fuzzy Inference TCSC Based Multi Machine System Stability Enhancement of DFIG Off shore Wind Farm	2018
International Journal of Research in Electronics and Computer EngineeringIJRECEVol.6 Issue 2 APR JUNE 2018 ISSN: 2393 - 9028 (PRINT) — ISSN: 2348 - 2281 (Online)	A Comprehensive Review on Control Strategies of Series and Shunt Active Filter Based Custom Power Device: UPQC to Improve Power Quality	2018
International Journal of Research in Electronics and Computer Engineering IJRECE VOL. 6 ISSUE 2 April-June 2018 ISSN: 2393 - 9028 (PRINT) — ISSN: 2348 - 2281 (Online).	Enhancement of Power Quality using UPQC for An Environmentally Clean and Efficient Hybrid PEMFC and PMSG Based Wind Energy System Connected to Weak Grid	2018
	Dr. E. Vidya Sagar	
Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 08- Special Issue, 2018, ISSN 1943-023X	Reliability Evaluation and Improvement of Radial Distributed System for Uniform and Non-Uniform Loads Using Network Matrices	2018
	Dr. P. Satish Kumar	1
Int. J. Power Electronics, Vol. 10, No. 4,.	A simplified and generalized SVPWM method including over modulation zone for seven level diode clamped inverter – FPGA implementation	2019
IEEE Transactions on Industry Applications Volume 54, Issue 3 International Journal of	Generalized Algorithm of Reverse Mapping Based SVPWM Strategy for Diode-Clamped Multilevel Inverters Simplified Space Vector Pulse Width	2018
mternational Journal of	Simplified Space vector Pulse width	2018



Electrical and Computer Engineering (IJECE) Vol. 8, No. 5, October 2018, pp. 3417~3426 ISSN: 2088- 8708, DOI: 10.11591/ijece.v8i5.pp3417 -3426.	Modulation Based on Switching Schemes with Reduced Switching Frequency and Harmonics for Five Level Cascaded H-Bridge Inverter	
International Journal of Power Electronics. (Inderscience Publications). vol.9, no. 3	Implementation and Performance Analysis of Cascaded Multilevel Inverter using Modified SVPWM Techniques	2018
International Journal of Advances in Applied Sciences	Analysis and Implementation of Unipolar PWM Strategies for Three Phase Cascade Multilevel Inverter Fed Induction Motor Drive	2018
International Conference on Innovative Technologies in Engineering	Multi objective Microgenetic Algorithm Based Planning and Sizing of Distributed Generation with Different Load Models	2018
	Mr. CH. Siva Kumar	
ICITE 2019, University College of Engineering, Osmania University, 22 nd - 23 rd March, 2019	Power Quality Improvement of Weak Hybrid PEMFC and SCIG Grid Using UPQC	2019
International Conference on Electrical, Communication, Electronics, Instrumentation and Computing(ICECEIC) - 2019, Kanchipuram, Tamilnadu, India, Jan -2019	Comparative Analysis of a New Three Phase Diode Clamped Seven Level and Eleven Level Multilevel Inverter Based PMSG with IGBTs and GTOs Connected to Grid	2019
International Conference on Electrical, Communication, Electronics, Instrumentation and Computing(ICECEIC) - 2019, Kanchipuram, Tamilnadu, India, Jan -2019	Enhancement of Power Quality using UPQC for Hybrid SOFC and SCIG based Wind energy system connected to weak grid	2019
2018 IEEE International Conference on Innovative Smart grid Technologies (ISGT ASIA 2018), May 22-25, Singapore	Enhancement of Power Quality using UPQC for Hybrid SOFC and DFIG based Wind Energy System Connected to Weak Grid	2018
International Conference on Innovative Technologies in Engineering	Multi objective Microgenetic Algorithm Based Planning and Sizing of Distributed Generation with Different Load Models	2018
International Journal of Research in Electronics and	Enhancement of Power Quality using UPQC for An Environmentally Clean	2018



G . F	TECC. THE TEMEC I	1			
Computer Engineering	and Efficient Hybrid PEMFC and				
IJRECE VOL. 6 ISSUE 2	PMSG Based Wind Energy System				
April-June 2018 ISSN:	Connected to Weak Grid				
2393 - 9028 (PRINT) —					
ISSN: 2348 - 2281 (Online).					
	Mrs. E. Sreeshobha				
International conference on					
Trends in engineering	Identification of optimal operating				
Management Pharmacy and	condition of Six bus system based on	2018			
sciences ICTEMPS(Journal	reliability evaluation				
on Electrical Engineering)					
International Conference on	Reliability Improvement of				
	Transmission System with	2010			
Innovative Technologies	Incorporation of	2018			
in Engineering	Unified Power Flow Controller				
IEEE sponsored	Implementation of Load Flow Based				
International Conference on	Reliability Indices Evaluation Methods				
Electronics, Computers,	and Comparison with Constant	2018			
Communication,	Capacity Based Reliability Indices				
Mechanical and Computing	Evaluation for Three Bus Systems				
	Mr. R. Linga Swamy	ı			
International Conference on					
Emerging Trends in					
Engineering (ICETE 2109)	Analysis of CMV Reduction methods				
at University college of	for Three-Level NPC Inverter fed	2019			
Engineering, Osmania	Induction motor	2017			
University, Hyderabad 22-	induction motor				
23 March 2019					
20 1/111011 2017	Dr. N. Susheela				
International Conference on					
Emerging Trends in					
Engineering (ICETE),					
University College of	Hardware in Loop Simulation of				
Engineering, Osmania	Advanced Aerospace vehicle	2019			
University, Hyderabad	ravancea rerospace venicie				
during 22 nd to 23 rd March,					
2019					
IEEE Transactions on	Generalized Algorithm of Reverse	-			
Industry Applications	Mapping Based SVPWM Strategy for	2018			
Volume 54, Issue 3	Diode-Clamped Multilevel Inverters	2010			
	Ir. P. Lokender Reddy				
Indonesian Journal of					
	A modified bacterial foraging				
Electrical Engineering	algorithm based optimal reactive	2019			
and Computer Science	power dispatch				
Vol. 13					
Mrs. N. Srilatha					
International Conference on	Congestion Management Considering	2019			



A dyanaina Imayyladas for or	Economic and Efficient Generation	I		
Advancing knowledge from				
Multidisciplinary	Rescheduling			
Perspectives in Engineering				
& Technology 5th – 6th				
April, 2019				
International Conference on	Machine Learning Based Prediction			
Emerging Trends in	Model for Monitoring Power System	2019		
Engineering (ICETE)	Security			
International Conference on	Locational Marginal Price Based			
Innovative Technologies	Optimal Location of UPFC for Power	2018		
in Engineering	System Security Improvement			
	Dr. B. Sirisha	L		
	A simplified and generalized SVPWM			
Int. J. Power Electronics,	method including over modulation zone			
Vol. 10, No. 4,.	for seven level diode clamped inverter –	2019		
	FPGA implementation	2019		
Into-matical I	11 OA Impienientation			
International Journal of				
Electrical and Computer	Simplified Space Vector Pulse Width			
Engineering (IJECE) Vol.	Modulation Based on Switching			
8, No. 5, October 2018, pp.	Schemes with Reduced Switching	2018		
3417~3426 ISSN: 2088-	Frequency and Harmonics for Five	2010		
8708, DOI:	Level Cascaded H-Bridge Inverter			
10.11591/ijece.v8i5.pp3417	Level Cascaded H-Bridge lilverter			
-3426.				
Dr. J. Upendar				
International Journal of	•			
Engineering Technology				
Science and Research, ISSN	Study of 30 kV, 3 kJ/s Capacitor	2018		
2394 – 3386, Volume 5,	Charging Power Supply	2010		
Issue 5, May 2018				
	Ar. S. Vijender Reddy	I		
International conference on				
Emerging trends in	Calculation of voltages and power losses			
	with multiple DG units with change of	2019		
engineering (ICETE) 22-23	load			
March, 2019.				
International Conference	Optimal Planning of Multiple Distributed			
Innovative on Technologies	Generation Units in Distribution Network			
in Engineering (ICITE-	using Ant Colony Search Algorithm	2018		
2018)- 11th-13th April,	using Ant Colony Scarch Algorithm			
2018.				
Mr. G. Srikanth				
International Conference	Neuro Fuzzy Inference TCSC Based			
International Conference on	Multi Machine System Stability	2010		
Innovative Technologies in	Enhancement of DFIG Off shore Wind	2018		
Engineering	Farm			
		l		



10. Expert Lectures Delivered by Faculty

Faculty	Topic	Venue	Date
Prof. P.V.N. Prasad	Art of research writing and presentation	Department of Electrical Engineering, University College of Engineering, Osmania University	13 th – 17 th May, 2019
Prof. G. Yesuratnam	Assessment Tools-CO-PO Attainment, SAR Filling Criteria	Two-Day workshop on "NBA – Outcome Based Education & SAR Filling" at UGC HRDC Auditorium, JNTUH	24 th – 25 th May, 2019
Prof. G. Mallesham	Role of Smart Microgrids in Indian Power Sector	IIT – Delhi	
Dr. P. Satish	Electrical Machines	Kommuri Prathap Reddy Institute of Technology, Ghatkesar	3 rd November, 2018.
Kumar	Advances in Electrical Systems	Naval Science and Technological Laboratory, DRDO Visakhapatnam	13 th November, 2018
Mrs. E.Sreeshobha	Soft skills for Professional Excellence	South Central Railway - training institute	13/07/2018
Mr. R.Linga Swamy	Fundamentals of Simulink in Electrical Engineering	Techsonance 2018, Electrical Engineering, UCE, OU	March 2018
Dr. N. Susheela	Research Motivation and Document Preparation	Department of Electrical Engineering, University College of Engineering, Osmania University	13th – 17th May, 2019
Mr. P.Lokender Reddy	Genetic Algorithms	Techsonance 2018, Electrical Engineering, UCE, OU	March 2018
Dr.B.Sirisha	Technical Periodical Presentation and Writing	Department of Electrical Engineering, OU.	May 2019

11. Faculty Special Contributions

Prof.	Authored	G. Mallesham, Kumpati S. Narendra, "Control of a				
G.Mallesham	Book	Microgrid: Introduction," The Yale Publication, Report				
		No. 1601, Electrical Engineering, Yale University,				
		Connecticut USA.				



Dr. P. Satish Kumar	Applied Patents	 Filed a Patent on "Implementation of SVPWI Techniques to A Multilevel Inverter", Application No. 201741042315A, Published in the Officit Journal of Patent, Issue No. 48/2017, page No. 45227, dated 01/12/2017. Filed a Patent on "Asymmetrical Cascade I Bridge Multilevel Inverter with Reduced Power Switches", Application No. 201741033742/2 Published in the Official Journal of Patent, Issue No. 09/2018, page No. 7745, dated 02/03/2018. 			
	Authored Book	"Pulse Width Modulation- Performance Analysis in Multilevel Inverters", Published by 'De Gruyter Olden Bourg', Germany, ISBN No. 978-3-11-046817-5.			
Dr. J. Upendar	Uploaded PPT	 "Latex-Basics-PPT-By-Dr-J-Upendar" uploaded to internet on 22 Aug 2017. Link: https://www.scribd.com/document/356891004/Lat ex-Basics-PPT-By-Dr-J-Upendar "Protein sequence design and analysis: BLAST based computational approaches-A Review", uploaded to internet on 24 Nov 2017, Link: https://www.scribd.com/document/365369199/Pro tein-sequence-design-and-analysis-BLAST-based-computational-approaches-A-Review 			
Mrs. U. Suryavalli	Received Patent	Enhanced Algorithm For Motor Rotor Broken Bar Detection in 2010			

12. Events Organized by the Department

- MoU has been signed between Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad, and Central Power Training Institute (CPTI), Southern Power Distribution Company of Telangana Limited (TSSPDCL) on 16 th July 2019 at 11am. The signatories are on behalf of Osmania University Prof. Ch. Gopal Reddy Registrar and from TSSPDCL Shri A.G. Satish Kumar, CGM (HRD).
- Created Department Training and Development Centre for organizing all Departmental Training, Development and Consultancy Programs in the Department and Coordinator is Dr. N. Susheela
- Prof. G. Mallesham, Prof. G. Mangu, Mr. M.V. Ramana Rao, Dr. N. Susheela and Dr. J. Upendar visited Central Power Training Institute (CPTI-TSSPDCL), Vengalrao Nagar, Yerragadda, Hyderabad, On 18-05-2019 on the purpose of MoU with TSSPDCL.



- Created Faculty Advisor for Ph.D Research Scholars (EE) (Regular & Part Time) and Dr. B. Sirisha appointed as Coordinator
- For the first time department has introduced 3/4/5 week Summer Internship Program from 22nd April, 2019 onwards in the Department of Electrical Engineering and started revenue generation (Rs.30.000/-)
- Organized Workshop titled, "Induction Program for Ph.D. Scholars" for All (I, II and III year) Ph.D. scholars, on 20-04-2019 Recourse Persons: Prof. Sukumar Mishra, IIT, Delhi, Dept.of EE. Dr. VVS. Pradeep Kumar, IIT Mumbai and Dept Faculty Members
- Department of Electrical Engineering organized FREESTYLE-2019 on 09-04- 2019.
- Mrs. U. Suryavalli completed contact period at IIT, Bombay and joining there shortly as part of PhD under QIP.
- Department of Electrical Engineering organized workshop in collaboration with Matworks India Pvt Ltd on New MATLAB Software & Latest Features and participation from EEE, ECE, CSE faculty and Ph.D. research scholars on 29-04-2019 with Dr. J. Upendar, Coordinator.
- Prof. G. Mallesham has taken charge as Head in Electrical Engineering Department, UCE, OU on 30-03-2019
- Organized Workshop titled "Engineering Research Methodology" for Ph.D. scholars during 13th to 17th May, 2019 in the department, coordinator is Dr. B. Sirisha
- Organized "Techsonance-2019" National Student Technical Fest during 1st and 2nd march, 2019 Prof. G. Mallesham and Dr. J. Upendar are coordinators

13. 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

14. Training / Learning Activities of the Department

Name of the faculty	Duratio n	No. of Days	FDP /Training Activities / STTPs	Organized by
Prof. G. Mallesham	27-31 January, 2019	5	Professional Development Training (PDT)	National Project Implementation Unit (NPIU) New Delhi, at IIM Kashipur
Mr. Ch. Siva Kumar	16-21 July 2018	6	Programming, Data structures & Algorithms Implementation using Python	BV Raju Institute of Technology
Mrs. E. Sreeshobha	2 nd - 7 th July, 2018	6	One Week Training Program on "Power System Reliability"	NPTI, Bangalore
	13 th - 17 th May, 2019	5	Five day short term course on "Engineering Research Methodology-2019"	Department of Electrical Engineering, University College of Engineering(A), Osmania University
Dr. B. Sirisha	17 th April 2019	1	One day Workshop on "Induction Program for Ph.D Research Scholars"	Department of Electrical Engineering, University College of Engineering(A), Osmania University
	4 th - 9 th June, 2018	6	One-week Faculty Development Program on "Principle of GNSS, Applications and Research Areas"	Dept. of Electronics and Communication, UCE, OU
Dr. J. Upendar	8 th April 2019.	1	one day workshop on "TEQIP-III: web based academic management information system	National Project Implementation Unit (NPIU) (Govt.), New Delhi at BVB Sardar



			(MIS)"	Patel College of Engineering (Govt.), Mumbai,
	15 th to 16 th April 2019.	2	Two-day training program on "TEQIP- III: Procurement Management System (PMSS)"	National Project Implementation Unit (NPIU) (Govt.), New Delhi at BMS College of Engineering, Bengaluru
All Women Faculty of Department	January	2	Two-day workshop on "Leadership & Research Challenges for Professional Women"	Department of Electrical Engineering, University College of Engineering(A), Osmania University, in association with IEEE Hyderabad Section WIE

15. Activities under Technical Education Quality Improvement Program (TEOIP-Phase I&II)

Department has received funds under TEQIP for development of laboratories and imparting Training / Research activities for Teaching and Non-Teaching staff

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.

16. 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

17. 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

18. Future Plans of the Department

To establish Research Centers in the field of

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



3-day International conference on, "International Conference on Innovative Technologies in Engineering-2018" during 11th -13thApril 2018, Prof. G.Mallesham as Convenor.







MOU between Department of Electrical Engineering, UCE, OU, and Central Power Training Institute (CPTI), Southern Power Distribution Company of Telangana Limited (TSSPDCL) on 16th July 2019



Summer Internship - 2019





Finishing School - 2019



Workshop on "Engineering research Methodology" for Ph.D. Scholars



Overall Championship - Annual Sports Day Celebration-Sportsmania-2019





Visit of TS Residential School Children and Motivational program



Farewell to Final Year Students on the last working day











TESCHSONANCE-2019 National Student Technical Fest





Feeder Protection Unit (Power system Lab)



Electrical Machines lab



Electrical Machines lab





Industrial Process Control Trainer

IPM Power Module with DSP Controller



Photo Voltaic Training and Research Kit

PLC and SCADA Systems





Relay Protection Test Set **Power Analyzer**







3 - Level Diode Neutral Clamped Inverter



DEPARTMENT OF MECHANICAL ENGINEERING





TEACHING FACULTY

Professors



Dr. P Laxmi Narayana



Dr. Sriram Venkatesh



Dr. A Krishnaiah



Dr. P Ushasri



Dr. P Ramesh Babu (Head)



Dr. R Rajendra



Dr. M Chandra Sekhar Reddy



Dr. B Hadya



Dr. K Saraswathamma



Dr. Narsimhulu Sanke

Associate Professors



Dr. M V Ramana Murthy



Dr. V Uma Maheshwar



Dr. L Siva Rama Krishna



Dr. G Narender

Assistant Professors



Mr.E Madhusudan Raju



Dr. T Nagaveni



Ms. TSRV Padmalatha

Assistant Professors(Contract)



Mr. G Venkateshwarlu



Mr. K L Uday Kiran



Mr. K Venkateshwarlu



1r. K Ashok Kumar



Mr. M Prakash



DEPARTMENT OF MECHANICAL ENGINEERING

Ph.No: 40 2709 7346 Email: med.ouce@gmail.com

1. 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 Manufacturein 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).



2. Faculty of the Department

Name of the Faculty Research Areas/Specializations		
Professors		
Prof. P.RameshBabu		
Ph.D (IIT Kharagpur)	Composite Materials, Finite Element Methods	
Head		
Prof. P.Usha Sri,	Thermal Engineering, Turbo machinery,	
Ph.D. (IIT-Madras)	Computational Fluid Dynamics	
Prof. A.Krishnaiah,	Manufacturing, Severe Plastic Deformation. Nano	
Ph.D (IIT Madras),		
Post Doc (South Korea)	Technology	
Prof. P Laxminarayana,	Donato etian Englis erine Indonesial Englis erine	
Ph.D.	Production Engineering, Industrial Engineering, Engineering Research Methodology	
	Engineering Research Methodology	
Prof. Sriram Venkatesh,	Material Handling, CAD/CAM, Advanced	
Ph.D	Kinematics, Additive Manufacturing Technologies	
Controller of Exams, Exam branch,	and Applications,	
Osmania University		
Prof. R.Rajendra,	Production Engineering, Metrology &	
PhD	Instrumentation, Robotics using soft computing	
Prof. M.Chandra Sekhar Reddy,		
Ph.D,		
Director of Evaluation, Examcell,	Machine Design, Vibrations, Finite Element	
UCE,OU,Chairman, BoS(G),OU	Analysis	
TEQIP-III Coordinator, UCE,OU		
Director, EDP, UCE,OU		
Prof. B Hadya,		
Ph.D.	Thermal Engineering, Heat Transfer	
Chairmen BoS (L), UCE,OU		
Prof. K. Saraswathamma,		
Ph.D.	Production Engineering, micro machining, Finite	
Additional Chief Warden, Girls	element Analysis.	
Hostels		
Prof. NarsimhuluSanke,	Thermal Engineering, Renewable Energies	
Ph.D.		
Associate Professors		
Dr. M.V.Ramana Murthy,	Non Conventional Energy, Heat Transfer	
Ph.D.		
Dr. V.Uma Maheshwar,	Thermal Engineering, Turbomachinery, Cascade	
PhD, M.E.	Aerodynamics,	
Co-convenor, PGECET-2019	, zeroa j mimos,	
Dr. L Siva Rama Krishna, Ph.D	Production Engineering, Additive Manufacturing	
NPTEL Nodal Officer, UCE,OU	roduction Engineering, Additive Manufacturing	
Dr. G Narendar, Ph.D		
Incharge of CAD/CAM & CFD		
Center of College of Engg, OU,	Thermal Engineering, CAD/CAM	
Incharge, Automobile Workshop,		
UCE,OU		
Assistant Professors		
Mr.E. Madhusudan Raju,	Automation & Robotics, Control systems	
M.E.		



NBA Dept coordinator		
Dr. T Nagaveni, Ph.D. TEQIP Equity coordinator Dept.Time Table Incharge	Production Engineering, Ceramic Processing	
Miss.TSRVPadmalatha, M.E.	Production Engineering, Manufacturing Systems.	
Assistant Professors (C)		
Mr. G Venkateshwarlu, M.E.	Production Engineering,	
Mr. K. L. Uday Kiran, M.E	Production Engineering,	
Mr. K Venkateshwarlu, M.E.	Production Engineering,	
Mr. U Ashok Kumar, M.E.	Advanced Design &Manufacturing:	
Mr.M Prakash, M.E.	Production Engineering;	
Dr. K Buschaiah Ph.D (I.E./SCIENTIST)	Production Engineering	

3. Research Activities:

Department has undertaken extensive consultancy and research programmes in the following. Major fields:

- Composite and Nano materials
- 2. Additive Manufacturing
- 3. Computational Fluid Dynamics
- 4. CAD/CAM Applications.
- 5. Non Conventional Energy systems.
- 6. Metal cutting and Machine Tool Engineering.

4. Laboratories of the Department:

- Advanced Manufacturing
- Production Engineering
- Metrology & Instrumentation
- Metallurgy & Materials
- Hydraulic Machines
- Thermal Engineering
- Workshop& Foundry
- CAD/CAM, CFD
- Computer Programming
- Automation & Robotics
- Center for Prototyping



5. Research/Consultancy Projects (ongoing):

Title of the Project	Coordinators/ investigators	Funding Agency	Cost in Lakhs of Rs.
Assessment of Dimensional accuracy of Facial (Zygomatic) bone fractures reduction using Additive manufacturing	Investigator: Dr L Siva Rama Krishna	UGC	5.0
Development of EEG based Human Machine Interface for the control of 2 dof robot with Joint Flexibility	Investigator: Dr L Siva Rama Krishna CoInvestigator: Mr. E Mahusudan Raju	UGC	4.5
Advanced high temperature oxidation resistant Titanium aluminide intermetallics with rare earth additions.	Investigator Dr G S Reddy Co-Investigator Prof Sriram Venkatesh	DRDO	47.13
Entrepreneurship Programs (2010-18) (Completed)	Prof A Krishnaiah	DST- NSTEDB	40.00

6. Infrastructure:

Equipment Purchased in the last Academic year:

- CNC Simulation software worth of Rs. 5.0 Lakhs.
- Lapping Machine worth of Rs 10.0 Lakhs
- The above equipment are purchased from the funds allotted to the department under TEQIP-III

7. Achievements:

Guest Lectures:

- 1. 10th Prof. Abid Ali Endowment Lecture by Dr. Palle Rama Rao, ARCI, on Feb 01, 2019.
- Technical Committee Chair for Mechanical stream in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.
- 3. Coordinator for organising three weeks Induction Training Programme for first year BE students of UCE, OU as per the new AICTE model curriculum held during 16 July to 3 August 2018.

Faculty Achievements

 Prof K Saraswathamma, Prof NarsimhuluSanke, Dr L Siva Rama Krishna Chaired Technical Sessions at National Conference on



Advances in Mechanical engineering and Nano Technology (AMENT) during 29th -30th June 2018

Prof. Sriram Venkatesh

Appointed as Controller of Exams, Exam branch, Osmania University

Prof. P. Laxminarayana

Along with Md. Aleem Pasha, P. Ravinder Reddy, Ishtiaq Ahmed Khan published a book chapter in SiC and Al2O3 Reinforced Friction Stir Welded Joint of Aluminium Alloy 6061. Strengthening and Joining by Plastic Deformation, 01/2019: pages 163-182; , ISBN: 978-981-13-0377-7, DOI:10.1007/978-981-13-0378-4_7

Prof. A Krishnaiah

1. **Member**, Board of Studies in Mechanical Engineering,

JNTU Hyderabad (2018-till date)

Sri Vasavi Engineering College, Tadepallygudem, (Feb.2017-till date)

Institute of Aeronautical Engineering (IARE) (2015- Till date)

CVRCE, Ibrahimpatnam, R.R Dist. (2010-till date)

GMRIT, Rajam, Srikakulam Dist, AP (2014-till date)

 Regional Co-ordinator, (Hyderabad Central Zone) TS ECET-2018 & 2019

Prof Sriram Venkatesh

 Prof Sriram Venkatesh as controller of exams OU successfully conducted 80th Convocation of Osmania University. Chief GUEST: Dr S ChandraSekhar, Director, CSIR

Prof P Usha Sri

 Chaired a Technical Paper Presentation session at Sixth International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Nanaocomposites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP – 2018) 7-9 December 2018, Kottayam, Kerala, India"

Dr P Ramesh Babu

- Appointed as Member of Research Council, DRDL, Hyderabad
- Appointed as Member TSPSC for all CET exams in Telengana state
- Appointed as Liaison officer for all CET exams in Telengana state



Prof K Saraswathi

- 1. Reviewer for Precision Engineering published by Elsevier
- 2. Reviewer for Materials and Manufacturing Processes published by Taylor & Francis
- 3. Reviewer and Editor for ICAMM conference proceedings

Dr. V Uma Maheshwar

- 1. Was awarded PhD, under the Guideship of Prof. A M K Prasad. His thesis title: Experimental Investigation of Downstream Flow Field in a Linear Turbine Cascade: Effects of Relative Wall Motion & Incidence
- 2. Co-Convener of TS PGECET 2019
- Received a Certificate recognizing the Valuable Contributions to the Development of Student Member and Faculty Member Activities in Society of Automotive Engineers-India SAE India by The Chairman, Engineering Education Board, Society of Automotive Engineers-India
- 4. Appointed as the Committee Member of Engineering Education Board (EEB) of Society of Automotive Engineers (SAE) SAE India on March 6, 2019 which is a very important National Level Board of SAE India which has the authority to Approve SAE Events Budget and also Author Rule Books of All SAE India Events.
- 5. Dr. V. Uma Maheshwar is the Vice Chairperson for SAE Hyderabad Division. He was appointed as THE CHAMPION of Telugu States Level (TS & AP) SAE Student Tier 2 Convention for 50 Events at IARE and MLRITM Colleges Organised under Society of Automotive Engineers (SAE) during February 15-16, 2019.
- 6. Dr. V Uma Maheshwar is also the Core Organising Committee Member for the SAE Students National Convention
- Dr. V. Uma Maheshwar is appointed as the Coordinator for TEQIP Program on Employability Skills Training Program for Prefinal Year Students of BE Courses which was Successfully conducted during Feb-March 2019 during After Class work Hours 5-7 PM
- 8. As Faculty Mentor, Started a new Club in the College named as "Engineers Music and Cultural Club EMC2"
- Appointed as Selection Committee Member for Selection of Junior Research Fellows for Advance Science Laboratories, DRDL Vide Orders No ASL/23/2019/3376/Fellows/1 dated Jan 2019

Dr. L Siva Rama Krishna

 Received Certificate of Appreciation as ACTIVE SINGLE POINT OF CONTACT (SPOC) in the South Zone SPOC workshop organised by SWAYAM-NPTEL Local Chapter, IIT Madras on 19-01-2019. This certificate was presented for the instrumental role played by me in establishing and making the University College of Engineering,



- Osmania University, Swayam Local Chapter within the TOP 100 SWAYAM-NPTEL Local Chapters in a span of 6 months after establishing the local chapter. Presently the Local Chapter is recognised with A grade.
- Received Best paper of the session Award for the paper entitled, "A comparative study on the performance of 3D printed EDM electrode with Conventional EDM electrode" in the International Conference on Innovations in Mechanical Engineering (ICIME 2019) organised by the Department of Mechanical Engineering, Guru Nanak Institutions, Hyderabad held during 4-5 January, 2019.
- 3. Certificate of Appreciation received from Sunshine Hospitals, Secunderabad for helping them in solving two critical Cases related to Facial Assemtry and Jaw Reconstruction Surgeries by using 3D Printing Technology. The operations were performed on 23-01-2019.
- 4. Technical Committee Chair for Mechanical stream in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.
- 5. Coordinator for organising three weeks Induction Training Programme for first year BE students of UCE, OU as per the new AICTE model curriculum held during 16 July to 3 August 2018.

Dr G Narender

 Published a book titled Systems Design and Retrofitting of Integrated Gassification Combined Cycle Plant, LAMBERT Academic Publishing, Germany.

Mr E Madhusudan Raju

- 1. Department convener for PTPG Admissions, 2019
- 2. Faculty advisor, EFFICYCLE-2019

Dr T Nagaveni

- 1. T.Nagaveni, C.S.P.Rao., published a book chapter "Gel casting of Si3N4-SiO2 ceramic composites and evaluation characteristics" in 'Mechanical Engineering for Sustainable Development: state-of-the-art research', edited by C.S.P.Rao, G. Amba prasad Rao, N. Selvaraj, P. S. C. Bose, pp297-308, Apple Academic Press, USA.
- 2. Journal of Alloys and Compounds published by Elsevier

Mr.U Ashok Kumar

 Received "Young Innovative Researcher Award -2018" In Mechanical Engineering at international conference Coimbatore for the paper presented title Die sinker in micro machining applications



8. Workshops/ Seminars/ Training Programmes organized by Faculty

- Department organized one week Global Initiative of Academic Networks(GIAN) course on "Advances in Additive and Digital Manufacturinng"during 25-29 March, 2019. Expert Faculty is Prof. Suman Das, from Woodruff School of Mechanical Engineering, Georgia Institute of Technology Atlanta, USA.Course Coordinator for this course was Dr L Siva Rama Krishna and Prof Sriram Venkatesh
- Department organized a 5 day workshop on Experimental Techniques and Data Analysis during the month of April 2019. The chairmen to this event was Prof A Krishnaiah and the convener for the event was Dr K Buschaiah
- 3. Department organized a 5 day workshop on Engineering Research Methodology for the benefit of all the newly joined PhD students in 2018 during the month of July 2018. The chairmen to this event was Prof P Lxminarayana, Dean, Faculty of Engineering, UCE,OU and the convener for the event was Dr K Buschaiah.
- 4. Department organized a 5 day workshop on Engineering Research Methodology for the benefit of all the newly joined PhD students in 2018 during the month of April, 2019. The chairmen to this event was Prof P Lxminarayana, Dean, Faculty of Engineering, UCE,OU and the convener for the event was Dr K Buschaiah.
- 5. Department organised Bi-Annual Prof Abid Ali Endowment lecture by PadmaVibhushan Sri Palle Rama Rao on Topic The Immeasurable Value of Scientific Research "On Feb 1, 2019 at Dept of Mechanical Engineering, OUCE. The coordinator for the event was Dr V Uma Maheshwar.

Mr.V Uma Maheshwar

- Organised a Guest Lecture on Engineering Students Psychology by Mr B. Nagesh for ME 1st Year & BE 1st Year Students of all Branches in Assembly Hall of OU College of Engineering
- Organised a Intra College Students Singing Competition called RAAGA 2019
- As Coordinator of MechanicalEngg Dept., Planned and conducted FIVE Alumni Talks of Alumni Association, University College of Engineering, OU during Dec 14, 2018 to Jan 04, 2019.

Dr K Buschaiah

 Convenor for 3-Day Induction programme for faculty of Engineering Colleges organised by Office of the Dean, FoE, UCE, OU during July 13-15, 2018



- 2. Convenor for 5-Day short term course on Engineering Research Methodology organised by MED, UCE, OU during April 15-20, 2019
- 3. Convenor for 5-Day short term course on Experimental Techniques and Data Analysis (TEQIP-III sponsored)organised by MED, UCE, OU during April 22-26,2019

Mr. G Venkateshwarlu

 Coordinator for a two days technical workshop organized Department of Mechanical Engineering Collaboration with CANTER CADD on 23,2,2019 and 24,2,2019.

9. Workshops/ Seminars/ Training Programmes attended by Faculty

- Prof A Krishnaiah attended 7th International & 28thAll India Manufacturing Technology, Design and Research Conference (AIMTDR 2018) held at Anna University, Chennai, Tamil Nadu, from 13-15 December, 2018 Anna University, Chennai, Tamil Nadu, India
- 2. Prof A Krishnaiah attended Professional Development Training (PDT)at IIM Kashipur (FRI Campus, Dehradun)MHRD, NPIU New Delhi (TEQIP-III) during 24-28 September, 2018
- 3. Prof Sriram Venkatesh is visiting Israel as a part of team signing MOU with University of TelAviv, Israel& Osmania University joint collaboration in the fields of 3D printing.
- 4. Prof K Saraswathamma attended workshop on Preparing for NBA Accreditation & SAR filling held at JNTU, Hyderabad JNTU during 18-19 February 2019.
- Dr. V Uma Maheshwar participated on Invitation in Round Table Conference Jointly Organised by TSCHE and British Council on Feb 18, 2019 at TS Tourism Building, Begumpet which was attended by Telangana State Level Vice Chancellors.
- 6. Dr G NarenderAttended a Workshop on "Recent Trends in Fabrication Characterization of Nano Composites" from 05.07.2018 and 06.07.2018 at S.A. Engineering College, Chennai
- 7. Dr G Narender attended Two days workshop on Nanocomposites organized by SA Engineering college, Chennai, August, 2018
- 8. Dr G Narender attended National Workshop on "Hands-on-experience on Fabrication of Nanocomposite Materials for Engineering Applications" from 6th May 10th May, 2019 at NIT Warangal
- 9. Dr T Nagaveni, Prof K Saraswatamma, Miss TSRV Padmalatha and Prof P Usha Sri attended A two day workshop on "Leadership & Research challenges for Professional Women" at Department of



- Electrical Engineering, University College of Technology, Osmania University Hyderabad from 4-5 January 2019.
- Dr T Nagaveni attendedInternational Conference on Material Processing & Characterization at GokarajuRangaraju Institute of Engineering and Technology, Hyderabad from 8-10 March, 2019
- 11. Dr T Nagaveni attendedNational Conference on Equity: Achievement & Challenges in India at College of Engineering, Pune 15th and 16th March 2019.
- 12. Dr L Siva Rama Krishna, Mr E Madhusudan Raju, Dr G Narender, Mr K L Uday Kiran, Mr G Venkateshwarlu, Prof A Krishnaiah, Prof K Saraswathi, Dr V Uma Maheshwar, Dr T Nagaveni attendedInternational Conference on Emerging Trends in Engineering at University College of Engineering, Osmania University 22nd & 23rd March 2019
- 13. Dr V Uma Maheshwar, Dr T Nagaveni, Mr E Madhusudan Raju attendedOne week GIAN course on "Advances in Additive and Digital Manufacturing" University College of Engineering, Osmania University, Hyderabad from 25th to 29th March 2019

10. Guest Lectures Delivered by the Faculty

Faculty	No.of Guest Lectures delivered
Prof. Sriram Venkatesh	01
Prof P Usha Sri	01
Prof R Rajendra	01
Mr. V.Uma Maheshwar	04
Prof B Hadya	01
Prof K Saraswathamma	01
Dr. L Siva Rama Krishna	08
Dr. G Narender	01

Prof. P. Usha Sri

 Delivered a guest lecture on "Research Proposal and Report Writing", Workshop on Research Methodology, organized by the Department of Mechanical Engineering, UCE, OU during June 18-22, 2018.

Prof. Sriram Venkatesh

Delivered a keynote lecture on 'Additive manufacturing technologies: case studies' at at international conference on materials engineering and technology organized by dept of Mechanical engineering, lendi institute of engineering and technology vizianagam during 15-16 thjune 2018.



Dr K Saraswathamma

1. Resource person for AICTE-ISTE sponsored 6-day refresher programme on "Engineering Drawing-An Effective Teaching Methodology" from 2-7 July 2018 at Malla Reddy Engineering College (A), Secunderabad.

Prof B Hadya

 Delivered Guest lecturer for 2 days Faculty Development Programme on 25.06.2018 to 26.06.2018, on "Performance Evaluation Of Air-Conditioners For Different Refrigerants Using Different Software Tools" at Sreyas Institute of Engineering and Technology, Hyderabad

Dr L Siva Rama Krishna

- Invited Lecture on the topic, "Applications of 3D Printing in Biomedical and Aerospace Sectors" on 20-05-2019 in the one week short term training programme on "3D Printing Theory and Practise" organized by Department of Mechanical Engineering, Aditya Engineering College, Kakinada Andhra Pradesh during 20- 26 May, 2019.
- Invited Lecture on the topic, "Applications of 3D Printing in Biomedical and Aerospace Sectors" on 14-05-2019 in the one week short term training programme on "Advances in Manufacturing & 3D Printing" organized by Department of Mechanical Engineering, Srinidhi Institute of Science and Technology, Telangana State during 13 - 18 May, 2019.
- Invited Lecture on the topic "3D Printing In Satellite and Electronic Radar Communication" on 25- 04-2019 in the one week short term training programme on "3D Printing in Modern Engineering" organized by Department of Mechanical Engineering, IcfaiTech, Faculty of science and Engineering (IFHE) (Deemed to be University), Hyderabad, Telangana State during 22 26 April, 2019
- Invited Lecture on the topic, "Applications of 3D Printing in Biomedical and Aerospace Fields" on 24-01-2019 in the the Three day Faculty Development Program (FDP) on "Scope, Challenges, Opportunities for Research in Emerging areas of Mechanical Engineering" (SCORE –ME) organised by Dept. of Mechanical Engineering, KITS, Huzurabad during 23 25 January, 2019.
- Keynote Lecture on the topic "Applications of 3D Printing in Healthcare and Aerospace Fields" on 29-09-2018 in Two Day National Level Workshop on "3D Printing Technology" organized by Department of Mechanical Engineering, Kommuri Pratap Reddy Institute of Technology (KPRIT), Hyderabad during 28 - 29 Sep, 2018.
- Keynote Lecture on the topic "The Clinical Applications Of 3d Printing For Skull, Facial & Dental Reconstruction Surgeries" on 31-08-2018 in the National Seminar on "3D Printing Technology - Innovations in Clinical BIO Medical Field" organized by Department of Mechanical



Engineering, School of Engineering & Technology, Guru Nanak Institutions Technical Campus (Autonomous) during 31 Aug – 01 Sep, 2018.

- Keynote Lecture on the topic "Applications of 3d Printing in Biomedical And Aerospace Sectors" on 18-08-2018 in The National Conference on "Advances In Modelling, Manufacturing And Materials Engineering (NCAMMM-2K18)" organized by Department of Mechanical Engineering, Vignan's Foundation for Science, Technology &Research, Guntur during 17 18, August 2018.
- Keynote Lecture on the topic "Application of 3D Printing in Health Care and Aerospace Sectors" on 16-06-2018, in the International Conference on "Materials Engineering and Technology" organized by Dept. of Mechanical Engineering, Lendi Institute of Engineering and Technology, Vizianagaram, during 15-16 June, 2018.

Dr.G Narender

 Delivered a guest lecture on Emerging Trends of Nanocomposites &Nanotechnology and Its Applications" on 14th Nov 2018 at Holy Mary Inst. of Technology & Science, Keesara, Hyderabad.

Mr G Venkateshwarlu

• Delivered Guest lecture on Kinetics of Rigid Bodies organized by Department of Mechanical Engineering Nawah Shah Alam Khan College of Engineering & Technology, Hyderabad. On 16.4.2019.

11. Student Achievements (2018-19):

- 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. The students selected for this year are
 - (i) P Ramya, Roll No. 100514736041
 - (ii) Sai Rohit, Roll No. 100514736083
- Two students Mr. Pavan Venkat and Mr. Shahbaz are selected for one month training at M/s Daikin, Rajasthan.

12. MECHARENA 2019:

Department conducted 17th Student national technical Symposium "MECHARENA 2019" During 4th-5thof March 2019. The faculty advisor for the event was **Prof M Chandra Sekhar Reddy** and **MrBala Raju** was the student convener, The eventslike NavadharaProdyogika, Treasure Hunt, Sarvatra, Monster Track, Impetus, Stipendium, Paper Presentations, cultural



events, spot events, Workshops were part of the **Mecharena-2019** apart from Paper presentations and stipendium. More than 200 students registered for various events.

13. Placements:

The Placement record of the department for the year 2018-19 is as given below

No. of B.E. students applied for placements:	52
No of Job offers to B.E Students:	46
No. of Job offers to M.E students:	13
No. of Students opted Higher studies	04

14. Top GRE/CAT scores by the students:

S.No.	Student Name	GRE/CAT/GATE Score	Year
1	Kavya Geethika	GRE Score 315	
2	DivyaMengi	GRE Score 314	Admission into University of Texas (A&M), College station
3	D Sandeep	GRE Score 312	
4	SakethSubba	GRE Score 301	
5	NissiSupriya	GRE Score 297	
Higher Stu	dies		
	DivyaMengi	Texas A&M university	
	Aditya	NIT Nagpur	
	Harsha	NIT Nagpur	
		Research	
	Sandeep	Associate at Altair	
		Bangalore	
		Research	
	Kavya Geethika	Associate at IIT	
		Delhi	
Off Campu	1	i	
	Naveen Raja	NPCIL	
	Namreen	Fiat	
	Manasa	Tata Projects	
	chandana	Tata Projects	
	Pavan Kumar	Singareni	
GATE scor	e		
	Naveen Raja	GATE score 177	

 Dr V Uma Maheshwar has mentored 15 students for Participation at The National Level Students Convention Organised by Society of Automotive Engineers (SAE) at Bannari Amman Institute of Technology, Satyamangalam, ERODE during March 23-24, 2019. Dr. V Uma Maheshwar was also the Core Organising Committee Member



for the SAE Students National Convention. 11 out of 15 Students have won the Prizes as follows

- Abhiram and Srinivasa Reddy won first prize in Design for Assembly
- Manindra and Srinivas Reddy won first prize in Material Identification
- o ABhivay, Akash and Vamshi won first prize in plant layout.
- o Kavya and Rishitha Won 2nd Prize in Engineering Drawing
- Sudhanshu, Srinivas Reddy, Arpita & Anusha won 3rd Prize in Mech Engg CAD

Efficycle-2018:

Efficycle is a 3 wheeled vehicle driven by both Human and electric power. It is an event conducted annually by SAE India during the month of October, a team(Technocrats) of ten 2nd year students represented department. They designed, Fabricated efficycle at the garage facility available in the dept. team consisted of Kavya, Akash, Bhargav. The event was organized by SAE India and conducted at lovely professional university, Punjab. The faculty advisor for the event was MrE. Madhusudan Raju.

15. Research Publications/Presentations by the Faculty:

Prof A Krishnajah:

- MalothuRamulu and Arkanti Krishnaiah, The Effect of Die Channel Angles and their Combination on Plastic Deformation of Pure Copper During Equal Channel Angular Pressing Using Finite Element Modelling, Advanced Engineering Forum, Trans Tech Publications, Switzerland, Vol. 31, February, 2019, 63-69.
- Nagarjuna M, Dr.Gajanana S and Dr. Krishnaiah, Investigation to Optimize Process Parameters on Mechanical Properties of Aluminium Alloy in Die Casting Using Taguchi Method, Journal of Manufacturing Technology Today (MTT) (ISSN: 0972-7396), a monthly technical journal from Central Manufacturing Technology Institute (CMTI), Bangalore, Vol.17, Issue 10, October (2018) 19-27.
- Nagarjuna M, Dr.Gajanana S and Dr. Krishnaiah, Experimental investigations of Mechanical Properties of Al 7178 Metal Matrix Reinforced with Silicon Carbide, International Journal for Research in Engineering Applications and Management, Vol.9, Issue 4, December, 2018.
- 4. G. Madhusudhan Reddy, M. S. R. Prasad, A. Krishnaiah, P. Ramesh Babu, Editorial Preface: A Special Issue on Advances in Materials and



- Manufacturing, Materials Today: Proceedings, Volume 5, Issue 13, Part 3, **2018**, Pages 26793-26798.
- D Srinivas Rao, Krishanaiah A, Y Krishn, Syed Adil, Optimization of Cutting Parameters for Improvement in the Machining Performance on Fe-Al Mechanical Alloy, Materials Today: Proceedings 5 (2018) 27193– 27198.
- 6. M. Ravi Kumar, **A. Krishnaiah** and Ravi Shankar, KalvacExperimental Study on Micro Machining of SS304 by Using Electric Discharge Machining, Materials Today: Proceedings 5 (**2018**) 27269–27276.
- K. Buschaiah, M. JagadeeswaraRao, A. Krishnaiah, Investigation On The Influence Of Edm Parameters On Machining Characteristics For AISI 304. 5 (2018) 3648-3656.
- PavanKumarThimmaraju, Krishnaiah Arkanti, G. Chandra Mohan Reddy, Parametric Analysis of Friction Stir Welding Process, 5 (2018) 26981-26989.

Prof P Laxmi Narayana

- U.Ashok Kumar, Prof. P. Laxminarayana "Optimization of Electrode Tool Wear in micro holes machining by Die Sinker EDM using Taguchi Approach, Elsevier - Materials Today: Proceedings 1824-1831 Volume
 Issue 1, Part 1, Pages 1824-1831, 2018..https://doi.org/10.1016/j.matpr.2017.11.281
- 10. U.Ashok Kumar, Prof. P. Laxminarayana "Experimental optimisation of process parameters on micro hole machining by Die sinker EDM International journal of Advanced Materials Manufacturing & Characterization (IJAMMC), Volume 8, Issue 2, 2018.
- N. Aravindan, Ashok Kumar U, Laxminarayana P.: Multi response optimisation of EDM parameters for Micro channels machining of SS 316 with Taguchi GRA. Materials today: proceedings 12/2018; 5(13):27028-27035., DOI:10.1016/j.matpr.2018.09.006
- 12. Optimal FSW process parameters for dissimilar aluminium alloys (AA5083 and AA6061) Using Taguchi Technique, Materials Today: Proceedings 5 (2018) 4607–4614 (Elsevier)

Prof P Usha Sri

13. N. Leela Prasad, P. Usha Sri, K. Vizayakumar, "Life Cycle Assessment of a Wind based Electric Power Generation System: An Indian



- Perspective", International Journal of Modern Engineering and Research Technology (IJMERT) Volume 5, Special Issue, June, 2018
- K. Hemalatha, P. Usha Sri, N. Seetaramaiah "Experimental investigation of Magnetorheological Fluid Clutch", International Journal of Scientific Research and review, Volume 7, issue 6, 2018, ISSN No: 2279-543X, pp. 333-343.

Prof Sriram venkatesh

15. Prof Sriram venkatesh and Dr L Siva rama Krishna et al. "Design And Manufacturing Of A Scaffold For Biomedical Applications Using Additive Manufacturing." Indian Journal of Scientific Research, 2017, p. 1+. Academic OneFile, Accessed 9 July 2018

Prof P Ramesh Babu

16. Garimella Sridhar, **Ramesh Babu, P.**, "Effect of cutting parameters on machining induced distortionin thin wall thin floor parts" Journal of Mechanical Engineering, 2019, 17-27.

Prof.K.Saraswathamma

- 17. K.L.Uday Kiran, G. Chandra Mohan Reddy, A.M.K.Prasad, "Study on Effect of process parameters on angular error and Cutting speed in wire-EDM taper cutting", International Journal for Research in Engineering Application & Management (IJREAM), ISSN: 2454-9150, Vol-04, Issue-10, Jan 2019.
- 18. K.L.Uday Kiran, K.Saraswathamma, G. Chandra Mohan Reddy, A.M.K.Prasad, "Effect of Process Parameters on Angular Error in Wire-EDM Taper Cutting of AISI D2 Tool Steel", International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 6734, ISSN (Print): 2319 6726 www.ijesi.org ||Volume 7 Issue 6 Ver IV || June 2018 || PP 67-72.
- K. L. Uday Kiran , T Nagaveni , K. Saraswathamma , AMK. Prasad , G. Chandra Mohan Reddy, "Multi-objective optimization of WEDM process parameters for taper cutting of AISI D2 tool steel", International Journal of Engineering & Technology, 7 (4.5) (2018) 703-706.
- K. L. Uday Kiran, K. Saraswathamma, AMK. Prasad, G. Chandra Mohan Reddy, "Prediction of Angular Error and Surface Roughness in Wire-EDM Taper cutting of AISI D2 Tool Steel", International Journal



- of Modern Engineering and Research Technology Volume 5 | Special Issue | June 2018.
- 21. Venakatasatyanarayanarajuchetlapalli, Rahul Dixit, BonagiriPydiraju, Saraswathammakonapalli, Uddemarryramakrishna, Palankisaipavan "Effect of Corrosion Protection Plating on the Magnetic and Corrosion Properties of Cobalt-Iron-Vanadium (48-48-2) Soft Magnetic Materials" Journal of Magnetism and Magnetic Materials: under review
- 22. MithunKasturi, Saraswathamma K, Dhanesh Kant Verma "Effect of Post Weld Heat TreatmentSoakingTimeonMicrostructure and Mechanical Properties of TIG Welded Grade 91 Steel" Accepted for publication in Journal of Metals, Materials and Minerals.

Dr L Siva Rama Krishna

- 23. Mahipal Reddy, L.Siva Rama Krishna, S.Sharath Kumar, P.Ravinder Reddy, "Estimation of Electrical Conductivity of ABS and PLA Based EDM Electrode Fabricated By Using FDM 3D-Printing Process" International Journal of Modern Engineering and Research Technology, Volume 5, June 2018, PP-332-338, ISSN: 2348-8565.
- 24. L.Siva Rama Krishna, Shiva Dharshan Vanapalli, Abhinandan Potturi, "Orbital Volume Analysis of Midfacial fractures using Additive Manufacturing Technologies" in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.
- 25. L Siva Rama Krishna, Balasany Uday Kumar, Sri Ram Venkatesh and PotturiAbhinandan, "Assessment of Dimensional Accuracy of Reproducibility of Cadaver Skull by FDM Additive Manufacturing", in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.
- 26. Satish Kumar Parimi and Siva Rama Krishna L, "A review on Wire Arc Additive Manufacturing (WAAM) fabricated components of Ti6AL4V and steels.", in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE Alumini Association published by Springer during 22-23 March, 2019.
- 27. Mahipal Reddy, L.Siva Rama Krishna, S.Sharath Kumar, P.Ravinder Reddy, "A comparative study on the performance of 3D printed EDM electrode with Conventional EDM electrode" in the International Conference on Innovations in Mechanical Engineering (ICIME 2019)



- organised by the Department of Mechanical Engineering, Guru Nanak Institutions, Hyderabad held during 4-5 January, 2019.
- 28. E.Madhusudan Raju, L Siva Rama Krishna, Mohamed Abbas, "Control of end-effector of a multi-link robot with joint and link flexibility" in the International Conference on Innovations in Mechanical Engineering (ICIME 2019) organised by the Department of Mechanical Engineering, Guru Nanak Institutions, Hyderabad held during 4-5 January, 2019.

Dr. G. Narender

- S.Charvani, S.Shravan Kumar Reddy, G.Narendar, Ch.Gopal Reddy, Preparation characterisation of alumina nanocomposites, Materials Today: Proceedings 5 (2018) 26817–26822
- 30. G.Narendar, T.RavinderGoude, Influence of Geometrical Parameters on the Performance of Plate Fin-Tube Heat Exchanger, International Journal of Scientific Research and Review, ISSN NO: 2279-543X, Volume 7, Issue 12, 2018, PP 704-714
- G.Narendar, E. Arjun, Finite Element Analysis of Delamination of Nanocomposites, International Journal of Scientific Research and Review, ISSN NO: 2279-543X, Volume 7, Issue 12, 2018 PP 715-721
- 32. G.Narendar, P.Ranjeeth, CFD Analysis of Radiator for a Heavy Vehicle, International Journal of Scientific Research and Review, ISSN NO: 2279-543X, Volume 8, Issue 1, 2019 PP 1015-1030
- 33. G.Narendar, J.Vijay Kumar, CFD Study of Fluid Flow Through Pipe with Different Types of Ribs, International Journal of Scientific Research and Review, ISSN NO: 2279-543X, Volume 8, Issue 1, 2019 PP
- 34. G.Narendar, J. Narsingrao, CFD Analysis of Gas Turbine Blade Cooling With Staggered Holes, International Journal of Scientific Research and Review, Volume 8, Issue 1, 2019, ISSN NO: 2279-543X, PP 756-765
- 35. G. Narendar, G. Venod , CFD Analysis on Impeller Passage of Centrifugal Pump, International Journal of Modern Engineering and Research Technology, Volume 6, Issue 1, January 2019 ISSN: 2348-8565, PP 16-27
- G.Narendar , M.Ramrao , CFD Acoustic Analysis Of Combustor With Porous Insert Dampers In A Gas Turbine, International Journal for Research in Engineering Application & Management ISSN: 2454-9150 Vol-04, Issue-10, Jan 2019, 373-377
- 37. G.Narendar, P.SaiSrikar, Design and Fabrication of Press Tool for Manufacturing Body of Carriage Box used For Military Applications,



International Journal of Scientific Research and Review, Volume 8, Issue 3, 2019, ISSN NO: 2279-543X, PP 1-10

Dr.TNagaveni

38. K. L. Uday Kiran, T Nagaveni , K. Saraswathamma, AMK. Prasad, G. Chandra Mohan Reddy, "Multi-objective optimization of WEDM process parameters for taper cutting of AISI D2 tool steel" International Journal of Engineering Technology 7 (4-5) (2018) 703-706.(scopus indexed)

Mr. KL Uday Kiran

- 39. "Study on Wire-EDM Taper Cutting Process: A Review", International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), Volume 3, Issue 12, December-2017.
- 40. "Effect of Process Parameters on Angular Error in Wire-EDM Taper Cutting of AISI D2 Tool Steel", International Journal of Engineering Science Invention (IJESI) Volume 7 Issue 6 Ver IV || June 2018 || PP 67-72

16. Conference Papers

Prof P Usha Sri

- 1. P. Usha Sri and ChirlaJeevesh, Performance Analysis of a Horizontal Axis Wind Lens Wind Turbine, International Conference on Emerging trends in Engineering (ICETE) held during 22-23 March 2019 at University College of Engineering, Osmania University, Hyderabad.
- C. Syamsunder and P. Usha Sri, Computational Analysis of Cavitation Structures on a ship Propellers, International Conference on Emerging trends in Engineering (ICETE) held during 22-23 March 2019 at University College of Engineering, Osmania University, Hyderabad.
- N. Leela Prasad, P. Usha Sri, K. Vizayakumar, Life Cycle Assessment of a 100 kWp Solar PV based Electric Power Generation System in India, 2nd International Conference on Innovations in Mechanical Engineering(ICIME-2019) Jan 4-5, 2019 at Gurunanak Institute of Technology and Gurunanak Institutions Technical Campus, Hyderabad, Telangana.
- 4. P. Usha Sri and NidamartyLaasya Priya, "Reviving And Analysing The Materials Used In Ancient Aircraft- SundaraVimana" at Sixth International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Nanaocomposites, Blends, IPNs,



- Polyelectrolytes and Gels: Macro to Nano Scales (ICNP 2018) 7-9 December 2018, Kottayam, Kerala, India"
- Elumagandla Surendar, Prof. P Usha sri, Prof. Shaik Khadar vali, Dr. N ShyamKumar, "Study on Heat Transfer Improvment Using Inserts of Different Geometrical Shapes in a Concentric Tube Heat Exchanger", 1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS-2018), SBIT, Khammam, India 25-27 Oct. 2018

Prof P Laxminarayana

- Sunil Kumar, U Ashok Kumar, P Laxminarayana: Optimization of Process Parameters on Kerf Width & Taper Angle on En-8 Carbon Steel by Abrasive Water Jet Machining. 3 rd National Conference on Recent Trends & Innovations In Mechanical Engineering -15th & 16th March 2019, Hyderabad, INDIA; 04/2019
- U Ashok Kumar, M Prakash, P Laxminarayana: EFFECT OF MATERIAL REMOVAL RATE ON MICRO HOLE MACHINING USING DIE SINKER EDM. ELECTROPHYSICAL MACHINING IN MODERN INDUSTRY - International scientific-practical conference of young scientists, graduate students and students, Perm,Russia; 03/2019

Dr V Uma Maheshwar

- 8. With NidamartyLaasya Priya presented a Paper on "Galactic Cosmic Energy -a Novel Mode of Energy Harvesting" at ICETE 2019 held during March 22-23, 2019 at OUCE.
- 9. With Ankita Chiluka presented paper titled "Application of Natural Fibre Reinforced Polymer Composite Materials in Turbo Machines", at the Sixth International Conference on Natural Polymers, ICNP 2018, held at Mahatma Gandhi University, Kottayam, Kerala during December 07 to 09, 2018
- 10. With Aditya Shiva Appalla, presented paper titled "Biodegradable materials for tissue engineering in surgeries and organ transplantations", at the Sixth International Conference on Natural Polymers, ICNP 2018, held at Mahatma Gandhi University, Kottayam, Kerala during December 07 to 09, 2018

Prof K Saraswathamma

11. B. Swathi, M. Sangeetha, K Saraswathammam Experimental study on effect of process parameters of wire EDM on maraging steels using plain brass wire at national conference on advances in Mechanical Engineering And Nanotechnology (AMENT-2018) during 29th-30th, June, 2018



- 12. S. Swethabhagirathi, Kasturi Mithun, K. Saraswathamma Effect of post weld heat treatment soaking time on mechanical properties of TIG welded grade 91 steel at national conference on advances in Mechanical Engineering And Nanotechnology (AMENT-2018) during 29th-30th, June, 2018
- 13. K.L.Uday Kiran, K.Saraswathamma, A.M.K.Prasad, G.Chandra Mohan Reddy Prediction of angular error and surface roughness in wire-EDM taper cutting of AISI D2 tool steel at national conference on advances in Mechanical Engineering And Nanotechnology (AMENT-2018) during 29th-30th, June, 2018
- 14. K.L. Uday Kiran, Sanar Zuhair Abbas, K.Saraswathamma, G.Chandra Mohan Reddy, A.M.K.Prasad, "Parametric optimization during wire EDM taper cutting on AISI D2 steel using desirability function", International Conference on Emerging Trends in Engineering (ICETE), 22-23 March 2019, University College of Engineering (A), Osmania University
- 15. N Hima Varsha and K Saraswathamma, "Effect of Aluminium Powder suspended dielectric and Silver Coated Copper Electrode on Electrical Discharge Machining Characteristics of Inconel 718" International Conference on Emerging Trends in Engineering (ICETE2019), 22-23 March 2019, University College of Engineering, Osmania University, Hyderabad.
- 16. Vishnu Pramod Teja G, Saraswathamma K and Padmalatha T.S.R.V, "Machining charateristics of Electro Discharge Machining on Nimonic 80A by Response Surface Methodology" International Conference on Emerging Trends in Engineering (ICETE2019), 22-23 March 2019, University College of Engineering, Osmania University, Hyderabad.
- 17. Sanar Zuhair Abbas , K.L.Uday Kiran , K.Saraswathamma, G.Chandra Mohan Reddy , A.M.K.Prasad, "Multi Objective Optimization of WireElectrical Discharge Machining Taper Cutting on AISI D2 Steel Using Response Surface Methodology" International Conference on Emerging Trends in Engineering (ICETE2019), 22-23 March 2019, University College of Engineering, Osmania University, Hyderabad.
- 18. D. Venkateshwarlu, Sriram Venkatesh, K Saraswathamma, Sanganabhatla Swetha Bhagirathi, Shiva DharshanVanapalli, "Evaluation of Wear rate of different Liner materials used in Bunkers and Silos using Dry Abrasion Wear Test" International Conference on Emerging Trends in Engineering (ICETE2019), 22-23 March 2019, University College of Engineering, Osmania University, Hyderabad.
- G Vishnu Pramod Teja, K. Saraswathamma, P. Murali Krishna, G. TejeswaraRao , "Experimental Investigation of Electro Discharge Machining on NIMONIC 80A through Response Surface



Methodology" 1st International Conference on Applied Mechanical Engineering Research (ICAMR-2019), May 2 - 4, 2019, NIT Warangal

Dr T Nagaveni

- 20. T.Nagaveni, B.Vinay Kumar Goud, T.S.R.V.Padmalatha, "Optimization of Turning Process Parameters on Surface Roughness and Tool Wear of 202 Stainless Steel" International Conference on Emerging Trends in Engineering, 22-23 March, 2019, Universitry College of Engineering, Osmania University.
- 21. Kishore Kumar K, M.Sandeepkumar, T.Nagaveni, C.S.P.Rao, "Fabrication and parametric optimization of SiO2-BN gelcast ceramic composites using response surface methodology" at 9th International Conference on Material Processing & Characterization,(ICMPC 2019), GokarajuRangaraju Institute of Engineering and Technology,Hyderabad, 8-10 March, 2019.

Dr K Buschaiah

- 22. M.Jagadeeshwara Rao, RiyaazUddien Shaik and K.Buschaiah"Grey Relational Analysis of EDM Process Parameters for Incoloy-800", Proc. of International Conference on Emerging Trends in Engineering (ICETE) held at UCE, O.U., during March 22-23, 2019.
- 23. M.Jagadeeshwara Rao, RiyaazUddien Shaik and K.Buschaiah "Electrical Discharge Machining: A Comparative Surface Integrity Study for Incoloy-800" Proc. of 2nd International Conference on Materials, Manufacturing and Modelling (ICMMM-2019) jointly organized by VIT, Vellore, Mopko National University, Korea and Zhengzhou University, China held at VIT, Vellore during March 29-31, 2019.

Mr. G Venkateshwarlu

24. G.Venkateshwarlu, K. Ramesh kumar, T.A.Janardhan Reddy "Estimation of the Grain size number and Microstrucrure analysis of AA6061 alloy flow formed tubes" International Conference on Emerging Trends in Engineering (ICETE) March 2019 || PP. 136

17. FUTURE PLANS

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





Variable Compression Engine test rigTwin cylinder 4 stroke diesel engine test rig



Multi cylinder 4 stroke petrol engine test rigAir Compressor Test Rig



Pin on Disk tester equipment in Metrology Lab Subsonic wind tunnel testing in Thermal Lab



Participants of short term course on Engineering Research Methodology

Inaugural Ceremony of one day national seminar on Surface CoatingTechnologies





Inaugural ceremony & unveiling of Souvenir at MECHARENA-2018, a national level student tech fest



Inaugural ceremony & unveiling of Souvenir at National conference AMENT-2018



Student presentations to Chief Guest, PadmasreeGyanaGhandhi in Mecharena-2018



Humanities & Science Building







Dr.Y.Rameshwar Head, Department of Mathematics



Dr. N.Narsimlu Head, Department of Physics



Dr. Saveen Sauda Head, Department of English

Dr. P. Jalapathi, Head, Department of Chemistry



Dr. B. Sunil Kumar, HOD, Head, Dept. of Physical Education.



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
	Physical Chemistry, Solid State Electrochemistry and Corrosion Science
Prof. A.Panasa Reddy,	
M.Sc., Ph.D.	
Dr. P. Jalapathi Head , Assistant Professor	
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 38 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. Five 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:

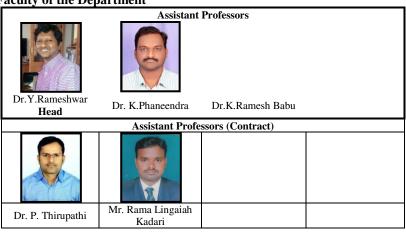
Prof. A. Panasa Reddy has delivered a popular lecture on Composite materials and Conducting Polymers at Vasavi College of Engineering, Hyderabad in the month of March 2016..



DEPARTMENT OF MATHEMATICS Ph.No: 040 – 27682208

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 of the Department



FACULTY	RESEARCH SPECIALIZATION
Assistant Professors	
Dr.Y.Rameshwar, (Head) M.Sc., M.Phil.,Ph.D.	Hydrodynamic and Hydromagnetic Stability, Ferrohydrodynamic convection, Convection in Elctrohydrodynamics, Nonlinear Dynamical systems.
Dr.K.Phaneendra M.Sc, B.ED., Ph.D.	Numerical Analysis, Numerical methods for a class of boundary layer problems
Dr.K.Ramesh Babu 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, Hydrodynamic and Hydromagnetic Stability, Ferrohydrodynamics convection, Nonlinear Dynamical systems, Perturbation methods, Graph Theory and Computability, 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.

Research Publications

Y. Rameshwar

Publications:

- 1. Analysis of Vortical Structures in a Differentially Heated Lid Driven Cubical, HP Rani, V. Narayana, **Y. Rameshwar**; *International Journal of Heat and Technology*, Vol. 36, No. 2, pp. 548-556, ISSN 03928764, (2018).
- 2. Nonlinear convection of binary liquids in a porous medium, Y. Rameshwar, V. Anuradha, G. Srinivas, L. M. Pérez, D. Laroze, and H. Pleiner; *Chaos*, Vol. 28, 075512(1-9), Impact Factor: 2.415, (2018).
- Analysis of Aspect Ratio Effects of Left Heated 2D Cavity using Energy Streamlines and Field Synergy Principle, HP Rani, V. Narayana, Y. Rameshwar, Mathematical Modeling of Engineering Problems, In Press; ISSN No: 2369-0739, (2019).
- Topology of Rayleigh-Bénard Convection and Magnetoconvection in Plane Layer, Hari Ponnamma Rania, Yadagiri Rameshwar, Jozef Brestenský, Geophysical and Astrophysical Fluid dynamics, Impact Factor: 1.417, (2019).



Ph.D. Degree Awarded/Submitted:

Name of the candidate: Dr. Abdul Rawoof Sayeed; Year of Award : 13-04-2018

Title: Mean Flow Effects and heat line visualization in Rayleigh-Benard and Thermohaline Convection.

Name of the University: Rayalaseema University.

Name of the candidate: Mr. G. Srinivas; Year of Submission: 14-02-2019

Title: Finite Amplitude Cellular Convection. **Name of the University:** Osmania University.

Foreign Visits:

Visited "The Center for Advanced Study in Theoretical Sciences", National Taiwan University, Taiwan, to conduct international research collaboration with Prof.Tony Wen-Hann Sheu, during 23 rd Nov. 2018 to 2nd Dec. 2018, (Financial support for DA and TA obtained from "Mathematics Research Promotion center, Ministry of Science and Technology", Taipei, Taiwan).

Invited Talk:

Title: Nonlinear Thermohaline Convection.

Place of presentation: Taiwan-India Joint Conference – "Recent Progress on Flow Simulation and Stability Analysis", held at Center for Advanced Study in Theoretical Sciences (CASTS), National Taiwan University(NTU), Taipei, during 14th-18th March, 2019, (Financial support for DA and TA obtained from CASTS, NTU).

Short Term Course:

Attended FDP on "High Performance Computing of Computational Fluid Dynamics Problems" at NITW, Warangal, during 24-12-2018 to 29-12-2018.

K.Phaneendra Research Publications:

 Fourth order computational method for two parameters singularly perturbed boundary value problem using non-polynomial cubic spline, *Int. J. Computing Science and Mathematics*, Vol. 10, No.3, 2019, pp. 261-275, (Scopus)



- 2. Optimization of Temperature of a 3D Duct with the Position of Heat Sources Under Mixed Convection, Lecture Notes in Mechanical Engineering, http://doi.org/10.1007/978-981-13-1903-7 32. (Scopus)
- 3. Provably secure pseudo-identity based device authentication for smart cities environment, *Sustainable Cities and Society*, 41 (2018) 878-885, ELSEVIER, SCI, I.F. 4.624.
- 4. Mixed finite difference method for singularly perturbed differential difference equations with mixed shifts via domain decomposition, *Ain Shams Engineering Journal* (2018) 9,647-654.(Scopus)
- 5. Accurate Numerical Method for Singularly perturbed differential-differenceEquations with mixed shifts, Khayyam J. Math. 4 (2018), no. 2, 110-122. DOI: 10.22034/kjm.2018.57949.(Scopus)

Ph.D. Guidance:

Completed-1, Ongoing students-7.

Dr.K. Ramesh Babu

Seminars and Conferences:

- 1. Dr.K.Ramesh Babu, Dept.of Mathematics delivered an invited lecture on "Dissipative and radiation effects on heat transfer flow of various fluid in a vertical channel".
- 2. Presented a research article on "Knowledge management in higher education institition" International Conference for development discourse, during 8-10th Feb, 2019.
- 3. Delivered lecture on National Conference on advanced Computational fluid dynamics, 12, 13, April 2019, Andrakesari Tanguturi Prakasham University.
- 4. Attended work shop on "Mathematical modelling and Numerical Techniquics in Engineering & Science in NIT, Warangal 9-13, Oct, 2018.
- 5. Participated in two day workshop on "Physics of fluids methods and applications" At Gitam University, Hyderabad, during 1st and 2nd, March 2019.

Library:

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



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, Pluto 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.

The Department of Physics has consisting of three laboratories in tune with current syllabus to enrich the students in the experimental techniques. 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. The department has been initiating a constant and continuous assessment of the students in various aspects of experiments pertaining to their course.

To enhance the 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.

Research Facilities

Apart from this, there are Research facilities like, *X-Ray Diffractometer, Polarizing Microscope, Atomic Absorption Spectrometer, DC Electrical Conductivity setup, Hydraulic Press and LCR Meter*, which enable the faculty to enrich research work in the department.

The Department is actively engaging in conducting of National Seminars, In the eve of Centenary Celebrations of OU, A two day Technical Seminar on "Uses of Scientific & Technical Terminology in Hindi – Telugu in Science" held during 3rd & 4th May, 2017, which had been sponsored by *Commission for Scientific and Technical Terminology*, MHRD, Govt. of India.



The department had organized a four day meeting for preparation of "Fundamental Glossary of Physics (English-Hindi-Telugu) during 3rd to 6th Jan, 2017, under the aegis of CSTT, MHRD, Govt. of India

Faculty details:

Name of the Faculty	Research Areas/Specializations
Assistant Professors	
Dr. N.Narsimlu, Head M.Sc., B.Ed., Ph.D Post Doc (National Central University, Taiwan)	Polymers, Neutron scattering and Nano composites
Assistant Professors (Contract)	
Mrs. R. Swarna Latha M.Sc (Ph.D)	Opto- Electronics and Solid state Ionics
Mr. K. Krishna Murthy Goud M.Sc, B.Ed.(Ph.D)	Electronics & Communication and Luminescence
Dr. B. Ashok M.Sc, B.Ed., Ph.D.	Electronics & Communication and Polymer composites

Research Activities:

- The faculty members of this department have so far published about 16 research papers in various national and international Journals.
- > Dr. N. Narsimlu is one of the Authors of B.Sc. Modern Physics Book published by Telugu Akademi, Hyderabad.

Academic Activities:

- 1. We have conducted a guest lecture on 5th October, 2018, by *Dr.D.Srinivasu*, Head, Dept. of Physics, UCW, O.U., on "*EM wave* (*Radiation*) *Communication and Hazards*"
- 2. We have conducted a guest lecture on 9th November, 2018 by *Prof. G. Prasad*, Head, Dept. of Physics, UCS, O.U., on "Smart Material Memristors-a nano Technology Device"
- 3. We have conducted an extension lecture on 23.01.2019 by *Dr. Sarap Chandra Shekar*, Scientist, Institute of Computational Physics, University of Stuttgart, Germany on "Introduction to Quantum Mechanics Molecules to Materials".

Conferences/Seminars/Workshops attended by the faculty:

- 1. Dr. N.Narsimlu, Participated in MOOCS Program in UGC-HRDC Nagpur University from 19th to 24th November 2018.
- Dr. N.Narsimlu, delivered a extension lecture in JNTU Sultanpur on 5-11-2018.
- 3. Dr. N.Narsimlu, gave a key note lecture in N.G. College Nalgonda on 29th January 2018.



- 4. Dr. D.Aparna attended the workshop on MOOC's from 13.02.2019 to 19.02.2019, Organized by UGC-HRDC, O.U.
- 5. All the faculty members of the Department attended one day national workshop on "Physics and Characterization Techniques" Organized by Dept. of Physics, UCT, O.U. & IAPT, on 26.03.2019.
- 6. Dr. B.Ashok, visited "King Mongkut's University of Technology, North Bangkok" for collaborative research activity from 17th to 21st June 2019.

Extracurricular activities:

➤ We have conducted Swatch Bharat program in the Department for cleaning the premises of Science & Humanities Block.

In this program Faculty, Non-Teaching staff of Physics Department and B.E.1/4 I- Semester (Civil, Mech. & EEE) students were participated actively.

Faculty of the Department





DEPARTMENT OF ENGLISH

Phone: 040-27682201.

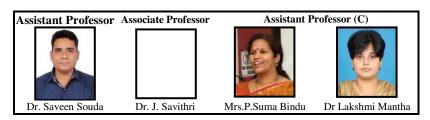
Profile

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 of the Department



FACULTY	RESEARCH SPECIALIZATION
Dr. Saveen Souda	Indian Writing in English,
Head & Assistant Professor	British and American Literature
MA, PhD	English Language Teaching (ELT)
Dr.J. Savithri	
AssociateProfessor	English Language Teaching (ELT)
M.Sc(Psychology), MA	Learner Strategies
(English),PhD, PGDELT	ESL Studies
Mrs.P.Suma Bindu	English Language Teaching (ELT)
Asst Professor (C)	Soft Skills



MA(Litt)., MA(Psy)., PGCTE,, PGDELT	
Dr Lakshmi Mantha	English Language Teaching (ELT)
Asst Professor (C)	Soft Skills
M.A, M.Phil, PhD	Business Communication

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.

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
- 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

6

Dr. Saveen Souda

Attended / chaired session in Seminars / Conferences / Events (National & International)

Publications:

- Organized a two day National Seminar on Resistance and Rebellion in Dalit and African – American Literature as Convener. From 12-04-2017 to 13-04-2017 at Dept. of English, OUPGCS sponsored by UGC – SERO and TSCHE
- Participated in two day workshop on Workshop for Academic Administrators Organized by UGC, HRC, O.U from 23-06-2017 to 24-06-2017
- 3. Chaired a session in 62nd All India English Teachers' Conference (AIETC) Jan 18- Jan 20, 2018 held at OUCIP, Osmania University
- 4. Organized a one day Student Seminar on 'Exploring the contours of English Studies' on 21 April 2018 at Dept. of English, OUPGCS
- 5. Article published in Literary Endeavour Journal, Jan, 2019 issue 'Life and Struggles of Dalits in Kalyan Rao's Untouchable Spring'
- 1. Supervising 6 English (PhD) Scholars

Dr. J. Savithri

Publications:

- Published an article titled 'The need for Culture Specific Syllabus for Professional Learners of English: Teachers' Perspective' published in International Journal of English Language, Literature and Translation Studies (IJELR), Vol. 3, Issue 3, 2016 (July-Sept). ISSN No.: 2349-045
- 2. Published an article titled 'Teachers' Perception on Integration of ICT in the teaching and Learning of English in Zilla Parishad Secondary Schools' published in the Journal of English Language and Literature, Vol. 3, Issue 2, October 2016. ISSN No.: 2349-2295
- 3. 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.
- 4. 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.
- 5. 'The Role of Affective Strategies in Improving the Speaking Skills of the Second Language Learners of English', published in IJELLH, Vol. V, issue IX, September 2017.



- 6. 'Attitude of Secondary School Students towards Learning English', published in IJRHAL, Vol. 6, issue 2, February 2018.
- 7. 'Exploring Sensory Learning Style Preferences of Learners in a Certificate Course in English for Foreign Students' published in Language in India, Vol. 18, issue 3, March 2018.
- 8. 'Impact of English Textbook on the Government Secondary School Learners of Telangana State in Developing English Language Skills', published in IJELLH, Vol.6, issue 4, April 2018.

Books Published:

- Dr. J. Savithri published 20 books in total with various multinational publishers. The following are the books published in the year 2015-2016
- 1. 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.
- 2. Advanced Skills in English, Orient BlackSwan, 2014.
- **3.** 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

Papers Presented / Courses Attended:

- 1. Presented a paper in the ELT@I 4th Annual International Conference on 'Teaching English Language and Literature: Innovative Methods and Practices'.
- 2. 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.
- 3. 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.
- 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.

Achievements:

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



Research Activities

• Dr. J. Savithri is guiding 8 PhD scholars

Award and Submission of PhD thesis:

- 1. Ms. G. Haritha is awarded a doctoral degree in June 2017 on the topic 'An Investigation into the Use of Macrostrategies by the Learners of English at the Tertiary Level in Rangareddy and Medak Districts'.
- **2.** Ms. E. Elizabeth Kamala submitted her doctoral thesis in June 2017 on the topic 'Designing a Culture Specific English Syllabus for Engineering Students in Telangana State'.

Mrs. P Suma Bindu

Paper Presentations/Publications:

- 1. Published a paper on "Mobile Aided English Language Teaching and Learning Through Apps for Foreign Students" in Innovative Methods and Materials in the Teaching of English: Reaching out to the Unreached, Pragma Publications, Hyderabad, 2017.
- 2. Presented a paper on "Enhancing the Creative Process through the Creative Text Writing Technique" at the National conference on "New trends and opportunities in social media marketing" 2016

Books Published:

1. 'B.Sc Nursing I year' Guide published by Global Publications, 2009.

Dr Lakshmi Mantha

Paper Presentations/Publications:

- 1. Published a paper on "Mobile Aided English Language Teaching and Learning Through Apps for Foreign Students" in Innovative Methods and Materials in the Teaching of English: Reaching out to the Unreached, Pragma Publications, Hyderabad, 2017.
- 2. Published a paper on "Management Education in India: Issues and Concerns" in University News, Vol. 56 No.20, May 14-20, 2018.

Books Published:

"Open Universities – Modern Educational Innovations" by Shipra Publications, 2017.



CENTRE FOR ENGLISH LANGUAGE TRAINING (CELT)

University College of Engineering, Osmania University Hyderabad - 500 007, Tel: 7416 575 575 / 2768 2354, Mobile: 965 285 6107, http://uceou.edu/CELT/index.php

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 363 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 45 Day Training Programme in TOEFL and IELTS

Course Fee : Rs.5000/-

Course Duration : 1 Month (inclusive of all holidays)

The following are the course components of the above course:

- Listening
- Speaking
- Reading
- Writing

v) 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)

vi) An Intensive Certificate Course on Communication Skills in English for Foreign Students

It is a three month course which aims at training foreign participants to refine their grammar, vocabulary, communication skills and finetune their personality.

This course is helpful to them in pursuing their higher studies and preferred careers in India and abroad. They are given certificates after the successful completion of the course.

Course Components

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

Duration: 3 months, 2 hrs a day, 5 days a week (Monday to Friday)

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

The course aims at improving 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

Dr. J. Savithri, MSc., M.A., Ph.D.

Dr. B.B. Chary, M.A., Ph.D

Dr. Lakshmi Mantha, M.A., Ph.D

Ms. P. Suma Bindu, M.A. English

Ms. G.B. Kadambari Devi, M.A. (English)

Ms. Laishram Karuna Devi, MA(English), MPhil.

Facilitators



Dr. B. Brahmananda Chary



Dr. Lakshmi Mantha



Ms. P. Suma



Ms. G.B. Kadambari Devi



Dr. J. Savithri

Ms. Karuna Laishram

Guest Faculty:

Mr. Yandamoori Veerendranath – Renowned Personality Developmenttrainer

Dr. B. V. Pattabhiram - Renowned Psychologists & Personality Development trainer

Mr. Y. Mallikarjuna Rao – Renowned Handwriting specialist

Dr. B. V. Satya Nagesh — Renowned Psychologists & Personality Development trainer



DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education is providing facilities for indoorgames viz., Table Tennis, Caroms and Chess. The College has developed aSports Complex in which a multipurpose playing field has been developedbehind the SBH, Engineering College Extension Counter to organize gamesand sports such as Cricket, Football and Athletics, besides creating facilities for Swimming, Volley ball, Badminton Tennikoit, Ball Badminton etc., to our Collegestudents.

The College has Basket Ball Court near the Hostels of the SportsComplex and Gymnasium Hall in the Main Building of the College. TheDepartment selects players to represent College in the Inter-CollegeTournaments (Men and Women) organized by Osmania University in variousdisciplines and the required material, uniforms and refreshments are provided to participants. Apart from fielding teams for participation in Inter CollegeTournaments, thePhysical Education Department sends talented players toattend coaching camps conducted by the Dept. of Physical Education,Osmania University in various disciplines, from which selected players willbe 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 PhysicalEducation Department conducts inter-faculty matches for Indoor and outdoorGames such as Cricket, Basketball, Ball badminton, Volley ball, Tennikoitand Athletics. These matches are organised separately for all theundergraduate and postgraduate students (Men & Women). Prizes andCertificates to the winners and runners-up in the inter faculty matches are distributed on the Annual Sports Day function.



Prof. B. Sunil Kumar, HOD, Dept. of Physical Education. Director, Dept. of Physical Education &Secretary, ICT (W), OU.



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 is opening out 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 Training and Placement of Students. Some Faculty 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. Some of the recruiting companies also offer Summer Internships to Pre Final Year Students.

Training and Placement Office is presided over by a Faculty of the college Dr.Mohd Abdul Hameed, Assistant Professor of Computer Science and Engineering with twelve years of R&D exposure and Twelve Years of Academic expertise is presently heading the Training and Placement 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 student's get career offers before they graduate from the college. Organizations that have been visiting the college in recent years include Maruti Suzuki India Ltd, Tata Projects Ltd., Mahindra & Mahindra Ltd., FIAT India Ltd, Hyundai R & D, Ashok Leyland, L&T Constructions, Punj Lloyd, ACC Limited, BALCO, GMMCO, Medha Servo Drives, BEML, Tata Consulting Engineers, Tata Elexsi, Bhagyanagar Gas Ltd., Accenture, TCS, Cognizant, Wipro Limited, Infosys, Capgemini, Uurmai Systems Ltd, Tech Mahindra, Google India, Microsoft, Yahoo!, De Shaw, Amazon India, ORACLE, CSC, ADP, Commvault, Pega systems, Thomson Reuters, Netcracker, Capital IQ, Deloitte, Cybage Software, IGATE Patni, Persistent Systems, Mathworks, Verizon, M&M EPC, Apps Associates, Broadridge,



Sonata Software, Birlasoft, BEL, BEML, Cyient, Virtusa, Computer Associates, Hexagon Capability center(Intergraph), Gammon India, Nagarjuna Constructions, Samtel, Xilinx, Salesforce, Servicenow, Shoretel, Wellsfargo, NCR, AMD, Ion Trading, K&S Partners, Progress Software, Zoho, CK Birla, Aurobindopharma, Atlas Copco, ArcServe, Schneider electric 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 TSEAMCET. 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.

The Placement Office located in the basement 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 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.

In INDIA, the college is Ranked 14 by India Today based on the score of Placements as recorded by the Global Human Resource Development Centre (GHRDC), a research based organization. University College of Engineering, Osmania University is the first Engineering College to get ISO 9001 Certification in erstwhile state of AP. The college is ranked ahead of most of NIT'S (as reported by India Today, Outlook, Career 360 & Dataquest).

The maximum pay offered was Rs 29.5 Lakhs/Annum by DE Shaw & Company till now, the average pay package was Rs 6.4 Lakhs/Annum.

Placement Office organized a Placement Workshop (BREEZE) for Pre-final Year Students of BE/ME (All Branches) & MCA of OUCE during February 17-25, 2019 with an aim to assess the preparedness of students for the upcoming placement season and give inputs on how to prepare effectively for Campus hiring process.



Ample opportunities are provided to the students on placements front. It is the responsibility of the students to prepare themselves to meet the requirements of the recruiting companies and make good use of the offers coming their way at the doorstep of the College.

Placement & Training Officer:

Dr.Mohd Abdul Hameed Assistant Professor Department of Computer Science Engineering

Assistant to Placement Officer: Mr. B. Murali Mohan

Office Location: Basement, Technology Development Centre Adjacent to Diamond Jubilee Library, University College of Engineering, OU



PLACEMENT & TRAINING OFFICE

UNIVERSITY COLLEGE OF ENGINEERING (A), OSMANIA UNIVERSITY, HYDERABAD - 500 007 CAMPUS PLACEMENTS 2018-2019, Statement of Job Offers Received

					BE/	UG							ME/P	G				Overall
S No	Company	CRP Dates	BME	CIVIL	CSE	ECE	BEE	Mech	Total Offer s for UG	MCA	BME	Civil	ECE	EEE	Mech	CSE	Total Offer s for PG	UG+P G Total Offers
1	Sabre	July 16 & 17, 2018	-	-	4	0	0	-	4	-	-	-	-	-	-		0	4
2	Deloitte	July 20 & 23, 2018	-	-	5	2	1	-	7	1	-	-	-	-	-	3	4	11
3	Mathworks	July 24 & 25, 2018	-	-	1	2	-	-	3	-	-	-	0	0	-	0	0	3
4	Service Now	July 27 2018	-	-	1	-	-		1	-	-	-	-	-	-	-	0	1
5	JP Morgan	July 28 2018	-	-	5	1	-	-	6	-	-	-	-	-	-	-	0	6
6	Unistring Technologies (ISP)	August 3 2018	-	-	-	-	-	-	0	-	-	-	0	-	-	-	0	0
7	Thomson Reuters	August 8 2018	-	-	-	-	-	-	0	-	-	-	-	-	-	14	14	14
8	OC Tennar	August 9 2018	-	-	-	-	-	-	0	-	-	-	-	-	-	0	0	0
9	NCR	August 10 & 17 2018	-	-	6	1	-	-	7	-	-	-	-	-	-	-	0	7
10	Oracle India	August 18	-	-	5	2	1	-	8	-	-	-	0	0	-	0	0	8

University College of Engineering O.U



Hand Book 2019-2020

1		& 20 2018		ĺ	1	ĺ	ĺ			ĺ		ĺ	ĺ					
11	Wipro Turbo	August 31 & Sept 1, 2018	2		4	2		2	10								0	10
12	Maruti Suzuki	August 24 2018	-	-	-	-	-	3	3						4		4	7
13	DelteX	Sept 5, 2018	-	-	0	0	0	-	0	-	-	-	-	-	-	-	0	0
14	Infosys	Sam 07 20	10	12	12	7	19	12	72	2	0	0	2	1	3	5	13	85
15	Capgemini	Sep 07-20, 2018	6	9	8	4	7	4	38	-	-	-	-	-	-	-	0	38
16	TCS	(PCRD)	2	3	6	3	6	5	25	0	0	0	0	0	0	0	0	25
17	Accenture	(I CKD)	-	-	13	9	24	-	46	4	-	-	-	-	-	-	4	50
18	Byju's	Sept 17 2018	-	-	1	-	-	-	1	-	-	-	-	-	-	-	0	1
19	GE Appliance	Sept 19 & 21 2018	-	-	0	-	-	-	0	-	-	-	-	-	-	-	0	0
20	TCS (Digital)	Sep -Oct 2018			2				2	0	0	0	0	0	0	0	0	2
21	Infosys (Power Programmer/Speciali st-Systems Engineer)	Sep -Oct 2018			9				9	-	-	-	-	-	-	-	0	9
22	Wellsfargo	Sept 22 & 24 2018	-	0	1	3	2	1	7	-	-	-	-	-	-	-	0	7
23	Merilyitics	Sept 26 2018	-	0	0	0	0	2	2	-	-	-	-	-	-	-	0	2
24	Technip FMC	Sept 27 2018	-	-	-	-	-	3	3	-	-	-	-	-	-	-	0	3
25	IBM (ISP)	Sept 30 & Oct 1 2018	-	-	0	-	-	-	0	-	-	-	-	-	-	0	0	0

University College of Engineering O.U



Hand Book 2019-2020

26	AMD(Co-Op Engineer" role) through MoU with OUCE	Oct-18	ı	-	-	-	-	-	0	-	-	-	8	-	-	-	8	8
27	Medha Servo Drives	Oct 11 2018	1	-	-	1	-	-	1	-	-	-	-	-	-	-	0	1
28	Oracle (CGBU)	Dec 4 2018			4	0			4	-	-	-	0	-	-	0	0	4
29	Tata Projects Ltd	Dec 10 & 14 2018		3				3	6	-	-	-	-	-	-	-	0	6
30	Reliance Industries	Dec 13 2018	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0	0
31	Fiat India	Dec 17 2018						1	1								0	1
32	Torrent Power Gas	Dec 18 2018	-	-	-	-	2	4	6	-	-	-	-	-	-	-	0	6
33	Franklin Templeton	Dec 19 2018			0	0			0				0			0	0	0
34	ITC (ABD)	Dec 27 2018	1	1	-	-	1	-	1	-	1	-	-	-	-	-	0	1
35	ITC (Hyderabad)	Dec 27 2018	1	-	-	-	0	-	0	-	-	-	-	-	-	-	0	0
36	Cyient	Jan 11 2019	Results Pending			0	Results Pending						0	0				
37	HIL Limited	Jan 21 & 22 2019	1	-	-	_	-	-	0	-	-	-	_	-	-	-	0	0
	GRAND TOTAL		20	27	87	37	63	40	273	7	0	0	10	1	7	22	47	320



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 programmes which demonstrate our commitment to excellence and continuous quality improvement.

Director:

Prof. P. V. N. Prasad,

Deperment of Electrical Engineering, UCE



DIAMOND JUBILEE LIBRARY UNIVERSITY COLLEGE OF ENGINEERING

Phone: 040- 27682339 Fax: 040- 27095179

It 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. The Library collection can be accessed through web OPAC. Zebra Link Barcode printer is used to generate barcode labels. It is proposed to install KOHA with RFID Technology for complete library automation. The digital library is also being upgraded.

The Library has procured HP ProLiant ML350 Gen9 server for providing online access to homepage, e – journals and web page etc. All Library users are provided with bar-coded identity cards.

The Library has facilities like lending services (Books Issue & Returns), Inter Library Loan, Web/intranet based information services and Wi-fi Services. The Library also has a book bank for SC/ST students. An additional floor area of 400 m² has been added to the reading room in the year June 2016.

The Library procures and stocks books for all six branches engineering. Online journals are available for various specializations of PG programmes. In addition, literature is also available to cater for the requirements of the students for various competitive examinations.

E-RESOURCES/ ONLINE JOURNALS:

About 40 systems have been installed to access the following online journals.

- IEL LEVEL-2 ONLINE
- ASCE
- ASME
- ACM

LEARNING RESOURCES CENTRE:

On the lines of Advanced Educational Centers 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

LIBRARY COLLECTION:

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



BOOKS	NUMBER OF COPIES
Books (UG & PG)	86998
SC/ST	8167
GIFT	5070
TEQIP	2186
Total Books	102421
No. of Titles	3500
e- Journals	175
Bound Volumes (Journals)	6295
Magazines	04
e-Books –free downloaded	60
https://www.pdfdrive.com	
https://bookboon.com/	
https://notesvarsity.com	
https://archive.org/	

FINANCIAL RESOURCES:

Library has budgetary provision under

- University Normal Budget
- Non-University Fund of the College
- Technical Education Quality Improvement Programme (TEQIP)

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 is kept open from 9:00 a.m to 12 Midnight ahead of university examinations and other competitive exams.

Director: Prof. M. Malini, BME, UCE, OU

Library I/c: Dr. P. Damodar **Library Assistant:** B. Kumar



Diamond Jubilee Library



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; conduct of B.E., M.E./M.Tech. and Pre-Ph.D Examinations, valuation of answer scripts, declaration of results issue 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. Examinations to 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 the completion of automation of the Exam Cell:

- > Online submission of question papers by examiners.
- ➤ Issue of computer generated Hall Tickets / Downloading of Hall tickets from exam cell website.
- > Online entry of marks
- Results processing
- Web publication of results
- ➤ Computer generated Tabulation Registers (TR)
- > Printing of various certificates

Officers:

Director of Evaluation:

Prof. M. Chandra Sekhar Reddy

Joint Directors:

- 1. Dr. S. V. S. N. D. L. Prasanna (PG)
- 2. Mr. Md. Misbahuddin (UG)

Sections and Activities:

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



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.
- > Verification, Printing and issue of Memorandum of Marks.
- ➤ Issue of Provisional Certificates, Consolidated Memorandum of Marks, Migration & Rank Certificates to the eligible candidates.
- ➤ Issue of digitized 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:

- 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 and know 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 may be obtained from the respective Departments.
- 2. 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	Structural Engg.	3 Years	1966	20
1	Engineering	Transportation Engg.	3 Years	2010	15
	Computer	CSE	3 Years	1991	25
2	Science & Engineering	PDS	3 Years	1991	30



	Electronics &	Digital Systems	3 Years	1975	15
3	Communication	SSP	3 Years	1975	15
	Engineering	Microwave & Radar			
4	Electrical	IDC	3 Years	1971	15
4	Engineering	Power Systems	3 Years	1971	15
		Production Engg.	3 Years	1994	15
5	Mechanical	Automation & Robotics	3 Years	1994	15
3	Engg.	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, pursing 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. N. Suresh Kumar

Director

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 SystemSTRATASYS Polyjet 3D Printer



SOME PROTOTYPES PRODUCED BY CENTRE





CENTRE FOR PROTOTYPING AND TESTING OF INDUSTRIAL PRODUCTS (CPTIP)

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 industryinstitute 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 Digital Dynamics,
Bakeys Redfine Signals

Yatna Engineering Solutions
ACME Toolings
Celltree – Bio Labs Pvt. Ltd.
HBL Power systems Ltd.

Guts Electromech Limited COVIDIEN

CARE Hospitals, Banjara Hills Yashoda Hospitals, Secunderabad

Nobel AutomotiveSensaCore Medical Instrumentation Pvt. Ltd.

Hanbit Automachine Technology Pvt. Ltd. Thirumalasetti Industrial Engineering Solutions

ACHIEVEMENTS

- 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.



 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
- 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 reorded 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
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.SC, Bangalore – 560012.
14	18-07-2013	Pam Eakins- Breing
15	18-07-2013	W. Frankliquin – Boeing Seattle, WA
16	8-03-2019	Dr. Suresh, Maxillofacial Surgeon, Sunshine Hospitals, Secunderabad.
17	29-03-2019	Prof. Suman Das, Georgia Institute of Technology, Woodruff School of Mechanical Engineering, Atlanta, USA



PROJECTS AND DISSERTATIONS COMPLETED

BE: 20 M.E: 25

Ph.D: 02 Completed & 03 scholars are perusing

PAPERS PUBLISHED

- M.Naveen Kumar, Sriram Venkatesh, M.Manzoor Hussain, "Experimental Investigation on Influence of Process Parameters in Selective Laser Sintering on Roundness Using Taguchi Method" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), ISSN (P): 2249-6890: ISSN (E): 2249-8001 Vol.7, Issue 6, Dec 2017.
- M.Naveen Kumar, Sriram Venkatesh, M.Manzoor Hussain, "Experimental Investigation on Concentricity of Polyamide Sintered Prototypes, By Selective Laser Sintering Process Using Taguchi Method" IMPACT: International Journal of Research in Engineering & Technology ISSN (P): 2347-4599: ISSN (E):2321-8843 Vol.5 Issue 11, Nov 2017.
- M.Naveen Kumar, Sriram Venkatesh, M.Manzoor Hussain, "Investigation of Run Out of Polyamide Parts in Selective Laser Sintering Process Using Taguchi Method" International Journal OF Engineering, Management & Science (IJEMS), ISSN- 2348-3733, Volume-4, Issue-10, October 2017.
- M.Naveen Kumar, Sriram Venkatesh, M.Manzoor Hussain, "Influence of 3D Material Properties on Quality Prototypes Using SLS and FDM Process of a 3D Printer" International Journal of Current Engineering and Technology E-ISSN 2277-4106, P-ISSN 2347-5161, Vol.7, No.3, June 2017.
- L.Siva Rama Krishna, Sandeep boddepalli, Sriram Venkatesh, "Topology Optimization
 of Aircraft Bearing Bracket and Prototype Manufacturing Using 3D Printing" National
 Conference "Large Scale Multidisciplinary Systems of National Significance Trends &
 Challenges" (LAMSYS 2016) organised by ISSE, SDC SHAR, ISRO in Association with
 Sathyabhama University, Chennai during 20-21, April 2018.
- L.Siva Rama Krishna, Aravind Reddy.G, Bhaskar Sudhakanth.V, Sriram Venkatesh, "Application of 3D Printing For Building Prototype Model of Osmania University Arts College – A Case Study" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 11 May, 2018 pp. 9267-9272.
- L.Siva Rama Krishna, Shiva Dharshan Vanapalli, Abhinandan Potturi, Sriram Venkatesh "Orbital Volume Analysis of Midfacial fractures using Additive Manufacturing Technologies" in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.
- 8. L Siva Rama Krishna, Balasany Uday Kumar, Sriram Venkatesh and Potturi Abhinandan, "Assessment of Dimensional Accuracy of Reproducibility of Cadaver Skull by FDM Additive Manufacturing", in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumini association in association with Springer during 22-23 March, 2019.

TRAINING PROGRAMMES CONDUCTED

 The center facilities were utilized for conducting one week GlobalInitiativeofAcademic Networks(GIAN) course on "Advances in Additive and Digital Manufacturinng" Expert Faculty: Prof. Suman Das, from Georgia Institute of Technology, Woodruff School of



Mechanical Engineering, Atlanta, USA to be held during 25-29 March, 2019.

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)

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.

Dr. G. Narender
Director
CFD Center



CENTRE FOR EXCELLENCE IN MICROWAVE ENGINEERING (CEME)

Phone 040-27098213-Ext.217,219, 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 and communication Systems.
- To strengthen Institute Industry interaction on mutual basis.

Software

- Keysight Advanced Design System (ADS)
- AWR Microwave Office(MWO) and Visual System Simulator(VSS)
- Zealand IE3D EM Simulator
- SONNET High Frequency EM Simulator
- Ansys HFSS
- CST Microwave Studio



Hardware

- 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. Key Sight N5173B RF Signal Generator (9KHz-20GHz)
- 7. Rohde & Schwarz FSH8 Spectrum Analyzer (9KHz-8GHz)
- 8. Anritsu Hand Held 20GHz RF Vector Network Analyzer

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+...

For further information contact:

Dr. D. Rama Krishna, Associate Professor, Dept. of ECE, UCE,OU

E.Mail: <u>dasariramakrishna@yahoo.com</u>, asariramakrishna@osmania.ac.in

Mobile: 919441154911



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), OsmaniaUniversity, 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, 2015,2016, 2017 and 2018

• FreeStyle : 2015,2016, 2017 and 2018

Advisory Committee

Dr.M.Kumar	Professor &Principal	Chairman	
Dr.Narsimhulu Sanke	Professor	MED	Director
Dr.P.V.N.Prasad	Professor	EED	Member
Dr.S.Ramachandram	Professor	CSE	Member
Dr.P.Chandrasekhar	Professor	ECE	Member
Dr.B.Mangu	Professor	EED	Member
Dr.B.Rajendra Naik	Professor	ECE	Member
Dr.M.V.S.Sridhar	Associate 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



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 Programmes 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 programmes. 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" programmes 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.



- 1) Organised two-days Entrepreneurship Awareness Camp on 20th & 21st October, 2017, Jointly with EDC, OU.
- Organised one-day workshop on Entrepreneurship Awareness on 3rd March, 2018, Jointly organised by NSS Units, UCE, OU and Start-up Cell (TEQIP-III), UCE, OU in association with EDC, Osmania University.

Director: Dr.M. Chandra Sekhar Reddy, MED, 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, 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 Programmers 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 inter-disciplinary 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 of 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 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 and 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:
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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:

- 1) Conducting research in the frontier areas of Navigational Electronics, Signal Processing and Communication, covering the current state-of-the art technologies.
 - a) Propose the projects for funding from government agencies and industries and then execute the sponsored and consultancy projects.
 - b) Publication of Research Results in Technical Reports and Journals.
 - c) Presentation of Research Results in Conferences.
- 2) Development of manpower in the area of Navigational Electronics, Signal Processing and Communication, by imparting training.
 - a) Organizing short term courses, workshops, symposia and conferences for engineers, scientists, academicians and students at PG and PhD level.
 - b) Guiding B.E., M.E., and Ph.D. students by Identifying of research topics based on the requirements of the sponsoring agencies and ongoing research work at national and international level in the areas of Signal Processing, Communication and Navigation.



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
	Development Signal Processing, Communication and Machine Learning
Dr.P. Laxminarayana, M.E., Ph.D, Professor and Director	 Algorithms and Systems. Navigation Technologies (GNSS and Unmanned Aerial Vehicles), Speech, Audio and Image Processing Equipments for Biometric and Biotechnology Industries

SPONSORED and CONSULTANCY PROJECTS (2013-2017)

S.N o	Title of the Project	Name of the Investigator	Duratio n	Amoun t in Lakhs	Name of the Sponsoring Agency
9	DGPS Surveying	P.Laxminarayana	2017- 2018	(approx) 4.50	GIS, Hyderabad
8	Automatic Speech Recognition (ASR) over VOIP and Wireless Networks	SR) P.Laxminarayana 2012- 2015 11.33		11.33	UGC, New Delhi
7	Optimization of AMR-WB Codec	P.Laxminarayana	2014- 2015	6.20	Lantiq Communication s India Pvt. Ltd. Bangalore
6	Improved Linear Kalman Filter for GPS Navigation and Restoration of MBI	K.Deergha Rao	2014- 2015	3.77	DRDO
5	Investigation of Atmospheric Effects on Future Ground Based Augmentation for	A.D.Sarma	2011- 2013	31.60	DST, New Delhi



	GPS Systems				
4	Investigation of Statistical Behavior of Ionosphere over the Indian region using GNSS data for GPS Application	A.D.Sarma	2010- 2013	8.80	ISRO, Bangalore
3	Kalman Filter based GPS Navigation	K.Deergha Rao	2009- 2013	9.52	RCI, DRDO, Hyderabad
2	Funds for Improvement of S&T Infrastructure (FIST) a program to augment the post graduate teaching and research facilities	A.D.Sarma	2007- 2013	50.00	DST, New Delhi
1	Coherent Radio Beacon Experiment(CR ABEX) Preliminary Phase-II	A.D.Sarma	2004- 2013	19.66	ISRO, VSSC, Trivandrum

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 GNSS, Antennas, Mobile Communications, Signal Processing and Image Processing. Conference proceedings and the lecture notes of short term courses conducted by NERTU are also available. Books are lent on interlibrary 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.

S.No.	Item	1982-	1993-	2011-
		1992	2010	2017
1.	No. of Books in Library	971	1637	1954
2.	Total No. of Volumes in library	1257	3055	3280

ACHIEVEMENTS

NERTU has completed around **60** sponsored and consultancy research projects, funded by government organizations like DoE, MIT, CSIR, SERB, DST, UGC, AICTE; DRDO labs like RCI, DRDL, DLRL, CABS, ADA, ITR, DTSR; ISRO labs like SAC, VSSC, ISAC and Industries like HAL, ECIL, BEL, NAA/AAI, Lantiq Communication India Pvt. Ltd. Similarly around **61** short term courses/workshops/conferences were organized by NERTU and participants are spread throughout India from all states. NERTU scientists have guided more than **34** PhD and **125** ME/MTech. students. NERTU staff has published around **127** Journal papers, **340** Conference Papers and **125** Technical Reports of the sponsored Projects and 80 General Technical Reports.

	Task	1982-	1993-	2011-
	Task	1992	2010	2018
1.	No. of Projects Completed	15	38	10
2.	Amount of the Projects Completed	260.54	191.56	153.80
	Rs. In Lakhs	200.54	191.50	133.60
3.	No. of Books Published	-	-	02
4.	No. of Journal Publications	10	98	19
5.	No. of Conference Publications	43	258	39
,	No. of Technical Reports for	32	76	18
6.	Sponsored Projects	32	70	10
7.	No. of Short			
	Courses/Workshops/Seminars	13	33	18
	Organised			
8.	No. of PhDs Awarded	03	18	13

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Task	1982- 1992	1993- 2010	2011- 2018
No. of M.E./M.Tech. projects Guided	12	63	49
No. of Invited Lectures by NERTU staff	-	73	25

COLLABORATION WITH DIFFERENT ORGANIZATIONS

NERTU scientists are closely interacting with labs of DRDO, ISRO, CSIR labs, PSUs, government agencies and academic institutions with their collaboration in executing several projects and organizing workshops/conferences. All the present and previous scientists of the NERTU are members and chairmen of the many Preliminary Design Review (PDR) and Critical Design Review committees of the projects executed by the labs of DRDO, ISRO and PSUs. NERTU signed a Memorandum of Understanding with Satellite Application Centre, ISRO, Ahmadabad, on 15th September 2016, on "IRNSS Navigation Receiver Field Trial and Data Collection". Till now NERTU has executed around 10 research projects funded by ISRO.

PROGRAMMES PLANNED FOR CALENDAR VEAR 2018

TROOM WINDS TEAT WED FOR CALEFORN TE	1111-2010
4-Day Short Course on Advances in GNSS Technologies &	16-19, August 2018
Applications	
Course Code: NERTU/SC/69	
One Week School on Advanced GNSS Signal Processing	20-25, August 2018
Course Code: NERTU/SC/70	
3-Day Short Course on Migration, Navigation and Bio-	26-28, October 2018
Mimicking Aerial Vehicles, (Course Code: NERTU/SC/71)	









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 Interne. 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 programmes.

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. Kumar Molugaram	Principal, University College Of Engineering
	Ph: 91 40 27097577

System Administrators/Programmer:

System Hummstrators/110gr	uninici (
Mr. N.Venkata Ramana	nallavenkataramana@uceou.edu
Mr. Lanka Phanibhushan	admin_phani@uceou.edu
Mr. M.Rama Krishna Reddy	rkreddymaram@osmania.ac.in
Mr. Mohamad Ali	ali@uceou.edu
Mr. Satish	

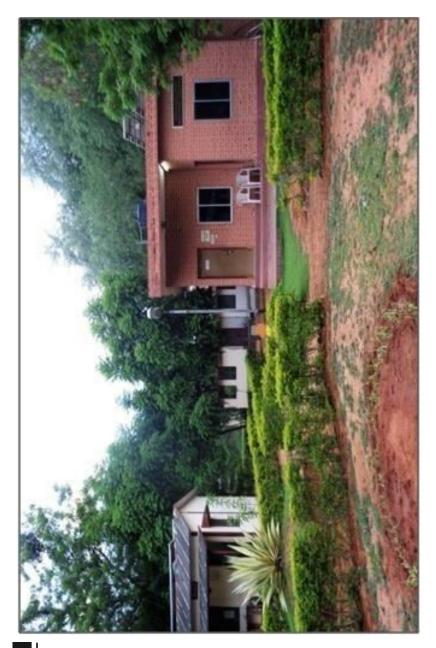
Address for Correspondence:

Prof. P. V. Sudha

Director, Central Computing Center e-mail: ccc.director@uceou.edu Phone no: 65170010, 27682264.



CENTRE FOR ENERGY TECHNOLOGY









Advanced Biomass Downdraft Gasifier

Solar Water Heater-Flat Plate Collector





Solar Photovoltaic Modules

Lecture on RE Program





Visitors inCET

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 energy sources which are economically environmentally friendly. Centre aims development and at popularization such technologies.

Staff

Specialization/Research

Director

Dr.NarsimhuluSanke, Ph.D Bio Professor of Mech.Engg. Sou

Honorary Advisor Dr.D.N.Reddy, Ph.D

(Founder Director, CET) (Former Vice-Chancellor, JNTU-H)

Senior Advisers

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

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

Faculty Associated

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

Dr.V.UmaMaheswar, Ph.D Associate Professor of Mech.Engg.

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

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

Wind Energy, Solar Energy Technologies

Clean Coal Technologies, Biomass

Heat Transfer, Thermal Engineering

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 etc.
- 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 (uptoJune 2019)

Number of Ph.D : 2 Completed and 3 on-going
 Number of M.E dissertations : 58 (Completed) + 4 (on-going)

Number of B.E Projects
 Sponsored Projects
 16 (Completed)
 8 (Completed)



M.E / M.TechProjects (Dissertations) Completed for the Year 2017-2018

1. Temperature analysis in different zones of the downdraft gasifier

GowthamiKoduri. 1005-15-750305, 2018

2. Analysis of variation in nozzle throat diameter for supersonic aerospace vehicles

Rahul Shukla 1005-15-750308, 2018

Publications in Journals/Conferences

 R.Shukla and N.Sanke, "Scrutinization of Discrepancy in nozzle throat diameter for supersonic aerospace vehicle", JCM M SC, IIT Indore, 19-21 July, 2018

Communication Address

DR.NARSIMHULU SANKE

Director

Centre for Energy Technology

University College of Engineering Campus Osmania University Hyderabad – 500007, India

Tel. No: 040-27096253

Email: cetdirector@gmail.com



Global Initiative of Academic Networks (GIAN)

The MHRD, Govt. of India approved a new program titled Global Initiative of Academic Networks (GIAN) in Higher Education aimed at tapping the talent pool of scientists and entrepreneurs, internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence. For details log on to GIAN Portal: http://www.gian.iitkgp.ac.in/

The University College of Engineering, Osmania University has successfully conducted the courses listed below under the above program.

S.No.	Course Name	Foreign Faculty	Host Faculty	Duration
1	Advanced	Prof.S.M.Rao,	Dr. D. Rama	02 NOV 2017 -
	Electromagnetic	Naval Research	Krishna,	08 NOV 2017
	Engineering	Laboratory,	Associate	
	Grant: 8.16	Washington DC	professor, Dept. of	
	Lakhs	20375, USA	ECE,UCE,OU.	
		Also		
		Adjunct Professor		
		@ George Mason		
		University,		
		Fairfax, Virginia.		
		& Catholic		
		University of		
		America, 620		
		Michigan Ave.,		
		N.E., Washington.		
2	Dynamical	Prof.David Laroze	Dr. Y Rameshwar,	10 NOV 2017-
	Behaviors of	Institute of	Asst Professor,	09 DEC 2017
	Magnetic	Advanced Studies,	Dept of	
	Systems out of	Universidad de	Mathematics, &	
	Equilibrium	Tarapaca. Arica,	Dr. P.	
	Grant: 8.16	Chile.	RameshBabu	
	Lakhs		Professor, Dept of	
			Mechanical	
			Engineering, UCE,	
2	771 1	D CIT. II	OU.	12 NOV 2017
3	Theory and	Prof.VijayKumar	Dr. P.Ananth Raj,	13 NOV 2017-
	Application of	Bhagavantula	Emeritus	17 NOV 2017
	Correlation	U.A. & Helen	Fellow(UGC) &	
	Filters for	Whitaker	Dr.L.Nirmala Devi	
	Computer Vision Grant: 5.44	Professor of ECE	Associate	
		and the Associate	Professor, Dept.	
	Lakhs	Dean for Graduate	of ECE, UCE,OU.	
		and Faculty Affairs in the		
		College of		



		Engineering. At CMU, USA.		
4	Big Data Analytics for Humanitarian Causes Grant: 8.16 Lakhs	Vishnu Pendyala Technical Leader Cisco Inc., San Jose, California, USA	Dr. K.Shyamala, Prfessor, & Prof.S.Sameen Fatima Professor, Dept of CSE, UCE, OU.	20 NOV 2017- 27 NOV 2017
5	Opportunities, Challenges and Research Trends in Wireless Sensor Networks Grant: 5.44 Lakhs	Prof. Mahbub Hassan School of Computer Science and Engineering, The University of New South Wales, Sydney, Australia.	Dr. L. Nirmala Devi, Associate Professor, Dept. of ECE, UCE,OU.	11 DEC 2017 -15 DEC 2017
6	High Voltage Gain Soft- Switching Advanced Current-fed Technologies for Microgrid and Electric Transporation Grant: 5.44 Lakhs	Prof.Akshay Kumar Rathore Associate Professor, Concordia University, Canada	Dr.B.Mangu Professor, Dept of EEE, UCE, OU.	18 DEC 2017- 23 DEC 2017
7	Advances in Additive and Digital Manufacturing Grant: 5.44 Lakhs	Prof. Suman Das Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA	Dr. L. Siva Rama Krishna, Associate Professor, Dept of Mechanical Engineering, UCE, OU. & Dr. Sriram Venkatesh Professor, Dept of Mechanical Engineering, UCE, OU.	25 MAR 2019- 29 MAR 2019





Visiting Advanced Joint Reearch Faculty Scheme

VAJRA (Visiting Advanced Joint Research) Faculty Scheme is a dedicated program exclusively for overseas scientists and academicians with emphasis on Non-resident Indians (NRI) and Persons of Indian Origin (PIO) / Overseas Citizen of India (OCI) to work as adjunct / visiting faculty for a specific period of time in Indian Public funded academic and research institutions. The Scheme recognizes the value of collaborative research as a crucial element for information sharing among researchers for updating and acquiring knowledge and skills, and also to draw different perspectives to solve a shared problem. The Science and Engineering Research Board (SERB) welcomes accomplished Overseas Scientists to take up challenging research problems in the Indian setting.

For details log on to www.vajra-india.in

Scheme for Promotion of Academic and Research Collaboration

Scheme for Promotion of Academic and Research Collaboration (SPARC) proposed to fill up this void in the collaboration eco system, as it not only funds for long term visit by the International Faculty (2 to 8 months) but would also fund the travel and sustenance of Indian students at the University/ Institute of the International collaborator. The major outcome of the SPARC initiative will be strong research collaboration between Indian Research groups with top research group in the leading Universities of the world, in areas that are at the cutting edge of science or with direct social relevance to the mankind, specifically India. The strong joint research should lead to tangible result that should include large number of high quality research publications, solution to key national and international problems, development of niche courses, high quality text books and research monographs, imbibing of best practices from top international academicians and researchers, strong bilateral cooperation, and improved world reputation and ranking of Indian Institutions.

For details log on to www.sparc.iitkgp.ac.in

The University College of Engineering, Osmania University have got sanctioned the following project under the above program whose details as follows,

Title of the Project	Indian PI & Co- PI(s)	International PI& Co-PI(s)	Sanctioned Budget in Rs.	Duration
Planning and	Prof. Gopal Naik	Dr. Srinivasulu Ale	74.38 Lakhs	2 years
Development	M & Dr. Harish	(Texas A&M		-
of Climate	Gupta, Dept. of	University) & Dr.		



Resilient	Civil	Fouad Jaber (Texas	
Water	Engineering,	A&M University),	
Sensitive	UCE, OU.	Prof. Jihn-Sung Lai	
Urban		(Nanyang	
Designs: A		Technological	
Case Study		University (NTU)),	
of		Prof. Jr-Chuan Huang	
Hyderabad		(National Taiwan	
Metropolitan		University (NTU))	
City			

For further information contact:

Dr. D. Rama Krishna, Associate Professor, ECE dept., UCE, OU Coordinator for GIAN, VAJRA & SPARC Programs, UCE, OU. E.Mail: dasariramakrishna@osmania.ac.in



QUALITY IMPROVEMENT PROGRAMME (QIP)

University College of Engineering, Osmania University is recognized as a Minor Quality Improvement Program (QIP) center to offer admission to PhD degree program in five departments, such as Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering. This program is implemented and monitored by All India Council of Technical Education (AICTE). The Government of India launched the Quality improvement Programme in the year 1970.

One of the main objectives of the programme is to upgrade the expertise and capabilities of the faculty members of the degree level engineering institutions in the country. There are total 74 QIP Centers in engineering stream. Out of which following 9 centers are designated at Major QIP Centers under engineering discipline to undertake the various activities.

The main objective of the OUCE Minor Quality Improvement Programme (QIP)Centre is to provide opportunities to faculty members of the AICTE approveddegree-level engineering institutions to improve their qualifications by offering admission to Ph. D. degree programmes. The total number of admissions at University College of Engineering under QIP scheme for the academic year 2017-18 and 2018-19 are as follows:

S.No	Year of Admission	Departments	Number of Students
1	2017-18	CSE	1
2.	2017-18	ECE	3
3.	2018-19	CSE	2
4.	2018-19	ECE	2
5	2018-19	EE	1
6	2018-19	Mech	1
7	2019-20	CSE	2
8	2019-20	ECE	2
9	2019-20	EE	1
10	2019-20	Mech	1
11	2019-20	CED	1



NSS ACTIVITIES

1. **21-06-2017**: Nearly 100 NSS volunteers of UCE, OU Participated in the International Day of Yoga organsied by Heartful Institute and NSS, Osmania University at LB Stadium.



2. **17-10-2017**: NSS units organized **Face Yoga** a natural exercise for the face and neck region



3. **25-01-2018**: Voters Day celebrations.







4. 08-02-2018: Health Checkup camp





5. **03-03-2018: ENTERPRENEURSHIP AWARNESS PROGRAMME** jointly organised by NSS Units, UCE, OU, Start-up Cell (TEQIP-III), UCE, OU and EDC, UCE, OU in association with EDC, Osmania University, Hyderabad.





6. 28-03-2018: BLOOD GROUPING ACTIVITY









NATIONAL CADET CORPS 2(T) AIR SQN(TECH)



Motto of NCC

Unity and Discipline (Ekta aur Anushasan)

DG's four Cardinal Principals of Discipline

- 1. Obey with a smile
- 2. Be Punctual
- 3. Work hard and without fuss
- 4. Make no excuses and tell no lies
- 5.

Aims of NCC

- 1. To develop qualities of character, courage, comradeship, discipline, leadership, secular outlook, spirit of adventure and sportsmanship and the ideals of selfless service among the youth to make them useful citizen.
- 2. To create a human resource of organised trained and motivated youth to provide leadership in all walks of life including the Armed Forces and be always available for the service of the nation.

NCC at a glance at UCE, OU.

National Cadet Corps (NCC) Unit of University College of Engineering(A), Osmania University was established in the academic year 2017-18 by the 2(T) AIRSQN(TECH), Secunderabad with the cadet strength of 100. Currently the unit has an enrolled strength of 50 cadets(30 SD & 20 SW), and an Associate NCC Officer (ANO) Flying Officer D.Suman. The institutional training is conducted by the ANO and PI staff at the NCC office of the Engineering college on Saturdays. The Cadets are given basic military training in small arms and parades. The officers and cadets have no liability for active military service once they complete their course but are given preference over normal candidates during selections based on the achievements in the corps.

Every academic year 30 parades(Each parade of 2 hrs each) were conducted according to the Block training program prepared by the ANO after the approval by the commanding officer of the Unit. Apart from the institutional training, social service activities will be conducted by the unit as prescribed by the DGNCC. Several events were organized by our NCC unit which include the blood donation camp, swachh bharat abhiyan, Youth festival, cancer awareness walk etc.



Achievements of the cadets and ANO

S.no	Cadet name	Event participated	Duration	Award/Honor
1	Cdt/Cpl.G.Anitha	Lead AP & Telangana	26th	Trophy
		Contingent as a contingent	January	
		commander during 79th	2019	
		Republic Day celebrations in		
		the governors rally		
2	Cdt/Sgt.G.Anitha	Attended the Air force	18-30,	Merit Certificate
		Attachment camp, dundigal	Dec, 2018	
3	Cdt/Sgt.G.Anitha	Attended the LRDC camp,	04-12,	Merit Certificate
		BTG, Secunderabad	Sept, 2018	
4	Cdt/Sgt.G.Anitha	Felicitated by Institute of	12, March,	Trophy
		Engineers(IoE) during	2019	
		woman's day celebrations		
5	Cdt/Sgt.G.Anitha	Attended "Ek Bharat Shresht	3-15,	Gold medal
		Bharat" at Amritsar	June2018	
6	Cdt/LFC.S.Abhijith	Attended All India Vayu		Merit Certificate
		Sainik Camp(AIVSC),		
		Jodhpur.		
7	Cdt/LFC.S.Abhijith	Attended "Ek Bharat Shresht	3-15,	Gold medal
		Bharat" at Amritsar	June2018	
8	20 cadets	Participated the Annual	26th Aug-	Merit Certificate
		Training Camp(ATC-VIII) at	3rd Sept,	
		BTG, Secunderabad	2018	
9	Cdt/R.Srikanth	Attended Trekking camp, at	Nov, 2018	Merit Certificate
		balgaum trekk.		
10	Cdt.B.Vennela	Participated the Inter group	13-20,	Got the Best
	Cdt.K.keerthana	competitions held at	sept,2018	Technical unit
	Netha	Warangal.		
	Cdt.S.Abhijith			
11	17 cadets	Participated the Inter Unit	04-12,	Stood 2nd place
		competitions held at AP &	sept, 2018	
		Telangana directorate.		~
12	Mr.D.suman	Attended the Pre-	November,	Got
	ANO	Commissioning course at	2018	commissioned
		OTA Kamptee and Air force		as Flying
		Station, Tambaram		Officer
				w.e.f.05/11/2018

Flg.offr.D.Suman Associate NCC Officer UCE(A), OU.



NCC Events

















Three Week Induction Program for first year students

The Three Week Induction Program for the newly admitted students of Engineering was inaugurated by Hon. Vice Chancellor, OU, Prof. S Ramachandram and Sri. Navin Mittal, IAS, Commissioner, Collegiate and Technical Education, Govt of Telangana. The University College of Engineering, OU is implementing the AICTE Model Curriculum from the Academic year 2018-19 from (16.07.2018 to 03.08.2018). The 3 week Induction Program covered broad aspects of the AICTE Model Curriculum including Physical activity, Creative Arts, Universal Human Values, Literary, English Proficiency Modules, Lectures by invited persons who have made a significant contribution in the field., Visits to local areas, Familiarization of Dept./Branch & Innovations. The detailed schedule and day to day program activity sheet is attached. The program also focused on introducing the students to the University which has a long and cherished history.

Prof. Pradeep Ramancharla, Registrar, IIIT Hyderabad and the Coordinator for the Telangana region for conducting workshops on the Induction Program, gave his valuable address to the students. He spoke on human values and relationships and posed several questions for students to ponder. He also threw open challenges that the students have to face and took a promise from them that they would not copy any assignment. Prof S Sameen Fatima, Principal, University College of Engineering, OU spoke about the new AICTE Model curriculum and features of it. With the reduction of credits from 200 to 160, the students may place more emphasis on application of knowledge, taking up internships, self study, project works, research orientation, etc. The Induction program consisted of a lot of team building activities, and thus was a good opportunity for the newly admitted students to mingle with each other, get to know each other, build up communication skills, and improve problem solving and analyzing skills.

The three week Induction Program covered topics such as "Importance of Sports and Discipline" by Padmasree awardee, Sri S M Arif, "Computational Thinking and Problem Solving" by Prof Salman Moiz from University Of Hyderabad, Yoga by Prof S A Chary etc. Sri. Bhasker Addl CP (Traffic) enlightened students with traffic rules to be followed by the responsible citizens of the country, and also briefed on the anti-ragging measures. Prof G B Reddy spoke on "Gender Sensitization" and how the status of women has degraded in the country. He said that it is the need of the hour that girls get the status they deserve in the society. The presentation by Prof M Vithal on Environment, Energy and Role of Engineers, sensitized students on responsibilities towards environment and focused on the use of



Nano-technology in the coming decades. Health awareness program was also organized mainly focusing on healthy diet and remain fit.

The English proficiency modules were covered in the first two weeks ranging from Know your participants – Ice Breaking Activity to Attitude and EQ and were well received by the students. They were exciting and interesting. Dr Shaukat Ali Mirza, a renowned personality, delivered a speech on "Engineers Without Borders" and advised that knowledge should help all sectors of society and not be confined to oneself or one part of the society. Dr C Goverdhan spoke on the role of mathematics in the Engineering curriculum. Life without mathematics is hard to imagine.

In order to encourage and talent search, competitions were held among students in creative arts field viz. Singing /Painting/ Dancing Competition. Students participated in large numbers enthusiastically and prizes were distributed to meritorious students. There were many interesting and highly motivating lectures that were organized for the students in this three week induction program. Placement Officer - Prof Uma Maheswar spoke about Placements at the college.

Dr Vijay, General Secretary Alumni Association spoke about the activities of the association and his experiences. For The valedictory session Mr Sekhar Kammula alumnus OU was invited. His talk focused on "His Journey from Engineering to Film Industry". He talked how he left his lucrative software job in US and pursued his dream of Film Making. His journey and struggle enlightened the younger generation to pursue his/her career in their chosen field.

Principal Prof Sameen Fatima spoke how this Induction program may bring all round development in the students. The Vice Principal Prof A Krishnaiah, Coordinators Dr K Shashikanth, Dr L Siva Rama Krishna , Dr Vidya Sagar expressed that these kinds of programs will motivate the students for achievement of excellence in their fields. Dean Faculty of Engineering, All Heads of the Departments, and Senior Faculty Members, Placement Officer - Prof Uma Maheswar were present in the valedictory function. The students gave their feedback and expressed thanks for putting together a great Induction Program.



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:

- 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.
- 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 (UPDATED)

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 2016-2017)

1. Dr. B.R. Ambedkar Gold Medal: To be awarded to the outgoing top Rank student of the B.E. topper among all the branches of the Engg. based on the percentage of B.E. 1st year to B.E. 4th year if percentages are equal, then 4th year topper again if equal, then 3rd year topper etc.

Ms. Nunna Apoorva

[100513733011]

2. Biomedical Instrumentation Centre Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Bio Medical Engineering).

Ms. Porandla Susmitha

[100513731083]

3. Sri K. Ramaswamy Gold Medal : To be awarded every year to the 1st Rank student of B.E. (Civil Engineering).

Ms. P Alekhya Reddy

[100513732005]

4. 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. P Alekhya Reddy

[100513732005]

 Prof. Waikuntham Gold Medal: To be awarded in memory of his mother Smt. N. Rajya Lakshmi W/o. Late Sri. N. Nagaiah to the outgoing student scoring the highest aggregate marks in all Civil Engg. courses in B.E. Curriculum combined.

Ms. P Alekhya Reddy

[100513732005]

 Mr. Bondugula Narsimha Reddy Gold Medal: To be awarded to top student among the outgoing top to student of B.E. (Civil Engg.) whose parental income is least.

Mr. Eitneni Santhosh Kumar

[100513732040]

7. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Computer Science & Engineering).

Ms. Nunna Apoorva

[100513733011]

8. Elico D V S Raju Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Electronics & Communication Engineering).



Ms. Moguluri Venkatasai Nagalakshmi

[100513735050]

9. 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. Gorti Naga Sai Lakshmi Aparna [100513734028]

10. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Electrical & Electronics Engineering).

Ms. Gorti Naga Sai Lakshmi Aparna

[100513734028]

11. Sri. Panthulu Pandari Gold Medal: To be awarded to topper among 10 students B.E. (E.E.E.) whose parental income is least.

Mr. Pocham Prudhvirai

[100513734036]

12. Prof. Abid Ali Gold Medal: To be awarded every year to the 1st Rank student of B.E. (Mechanical Engineering).

Ms. G Vidva Ms. Palle Sushma [100513736058] [100513736053]

13. Tahsildar Late Sri Sreepathi Parvath Reddy memorial Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. (Mechanical Engineering).

Ms. G Vidva

[100513736058]

Ms. Palle Sushma

[100513736053]

14. Smt. Shaikfathimabee Gold Medal: To be awarded every year to the outgoing B.E. Mechanical Engg. Muslim Minority Student among top 10 Rankers, if not available any other minority student in the list, and if none of the above are available, than to outgoing 1st Ranker.

Ms. Sara Imtiazuddin

[100513736013]

15. Smt. Pendyala Vijaya Srinivas W/o. (Late) Sri. P. Srinivas Rao Gold Medal: To be awarded to the student scoring the highest aggregate marks in all "Mathematics" courses in the B.E. Curriculum combined every year.

Mr. Pocham Prudhviraj

[100513734036]

Ms. Sivvannagari sowmya

[100513735043]

16. Late Sri Pendyala Srinivas Gold Medal: To be awarded to the meritorious student scoring the highest marks in "Data Structures" its equivalence core course in the B.E. (CSE) curriculum every year whose family income is least.

Mr. V. Aghamarsh

[100516733040]

17. Smt. Late. Lilabai Desai Gold Medal: To be awarded to a Master Degree student presently the "Best Thesis in Structural Concrete Construction" of Civil Engineering.

Mr. Md. Khader Vali

[100514741120]



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.



ALUMNI ASSOCIATION

The Alumni Association congratulates all the Fresher'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.

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 fresher's life. The Association wishes all thefresher's a great life ahead and we are sure it will be great fun. Above all, we encourage the student to take full advantage of the association's programmes to make new friends, make informed career choices; last but not the least cherish & strengthen the rich heritage and vast history of this Institution.

The Alumni Association University College of Engineering, OU

The Alumni Association of University College of Engineering,OU with more than 10000 registered members was formed in 1998. In April,2015, Prof.S.Ramachandram,Principal, OUCE and currently Vice-chancellor of Osmania University constituted a Revival Committee consisting of 16 members to reactivate and strengthen the Alumni Association. The Revival Committee defined the vision and suggested changing the bye-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.

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 major activities undertaken this year as part of the Centenary Celebrations of Osmania University are:

- Center for Excellence Training Development for Faculty & Students of Osmania University
- Free Online Career Development Program for all Students & Research Scholars of UCE
- Facilitating "Osmania Model Village" project; an initiative to adopt 100
 Villages by the Alumni of Osmania University along with Gramodaya Chambers of Commerce & Technology (G-CoT)

There are many activities undertaken by the Association but to mention a few of them that could be of great help to you during your stay at University College of Engineering are:

- Career Development Program (Online) for all students from 1^{st} year to 4^{th} year
- Student Innovation, Patent & Research Funding
- Student Mentorship Programmes, Internships& Industry interaction
- Alumni Talks, Speaker Series and Workshops
- Facilitation for participating in the Technology Business Incubator
- Career Guidance and Support
- Be an Office Bearer in the Student Alumni Body
- Official E Mail ID Rollout
- Support for Student Clubs & Other activities

The Alumni Association advices all Fresher's to make use of the facilities offered by the alumni and drop in at the Office of the Association in the Main Building for any help. Also, please do visit our website www.oucealumni.org and register so as to facilitate all the above.



Wish you good luck for all your future endeavours.

For further details please contact:

Er. P. Ram Reddy, President

Dr. D. Vijay Kumar, General Secretary

Alumni Association

University College of Engineering, Osmania University

Osmania Campus, Hyderabad – 500007

E-Mail: gensec@oucealumni.org Website: http://www.oucealumni.org

Phone: +91 40 27096613 Mobile: +91 9490946673

INFRASTRUCTURE OFFICE

Telefax :- 040-27072201 directorinfrastructureuceou@gmil.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:

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



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:

S.No.	Name of the Staff	Designation	Telephone No
1	Prof. Kumar Molugaram	Principal	9849411656
2	Dr. E. Vidya Sagar	Vice Principal	9985256268
	Dr. L. Nirmala Devi	Director, Campus Hostels for Women	9949513490
3	Dr. B. Hadya	Addl. Chief Warden & Convener	9440349195
4	Dr. K. Saraswathamma	Asst. Chief Warden Girls Hostel & Mess	9032714222
5	Dr. D. Rajasekhar Reddy	Kinnera Hostel Warden	9493190672
6	Mr. Dabbu Suman	Kinnera Hostel Mess Warden	8897855138
7	Dr. L.Siva Rama Krishna	NSS PO Unit-I	9849867046
8	Dr.E. Vidya Sagar	NSS PO Unit-II	9985256268
9	Mr. M. Shyam Sundar	Swamamukhi Hostel Warden	9885433203
10	Dr. B. Sujatha	Mess Warden, Girls Hostel	9948625313
11	Dr. N. Susheela	General warden, Girls Hostel	9848995532
12	Mr. Md. Misbahuddin	Ganga Hostel Warden	9247184538
13	Mr. M. Srinivas	Ganga Hostel Mess Warden	9703063245

Other Important Numbers

S.No	Name	Designation	Phone No.
1	Dr. S. Hari Singh Naik	Chief Warden, O.U	27682274
2	Prof. P. V. N. Prasad	Dean, Student Affairs, O.U	27682250
3	Dr. E. Sujatha	Public Relation Officer, O.U	27682259
4	Mr. J. Devi Das	S.E (Construction)	27682270
5	Mr. Ramulu	D . E. E	27682259
6	Mr. Venkata Ramana	Asst. Engg	27682295



S.No	Name	Designation	Phone No.
7	Dr. B. Sathaiah	I/C Chief Medical Officer	27682278
8	O.U Ambulance		27682351
			27853570/
9	O.U Police Station		9490616377/
			9490616378

 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 :27093213 / 2708227 / 27682287

Public Relation Officer, UCE :27097577 / 27682317

University Health Centre, OU Campus :27682278 Night Duty Medical Officer :27682351

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.
- \triangleright 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 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: and Public holidays:

4.00 PM to 7.00 PM 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.



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: PENALITY 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:

- 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
- 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

HelpLine:

Email: helpline@antiragging.in

Phone: 1800-180-5522 (24 X 7 Toll Free)





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.
- 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