
HAND BOOK



2023-2024



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S. No.	ABBREVIATIONS	
1.	AI & ML	Artificial Intelligence and Machine Learning
2.	B.E	Bachelor of Engineering
3.	BME	Bio-Medical Engineering
4.	BoS	Board of Studies
5.	CCC	Central Computing Center
6.	CCT	Centre for Creative Technologies
7.	CDAAC	Curriculum Development, Audit & Accreditation cell
8.	CE/ CED	Civil Engineering Department
9.	CET	Centre for Energy Technology
10.	CEEP	Continuing Engineering Education Programmes
11.	CELT	Centre for English Language Training
12.	CFD	Computational Fluid Dynamics Centre
13.	CSE	Computer Science & Engineering
14.	ECE	Electronics & Communication Engineering
15.	ECTA	Engineering College Teachers Association
16.	EDC	Entrepreneurship Development Cell
17.	EE/ EED	Electrical Engineering Department
18.	IDC	Information Dissemination Centre
19.	EAF	Electronic Application Forms
20.	MCA	Master of Computer Application
21.	MCT	Mechatronics
22.	MinE	Mining Engineering
23.	ME/ MED	Mechanical Engineering
24.	M.E./M.Tech.	Master of Engineering/ Master of Technology
25.	MRE	Microwave and Radar Engineering
26.	NAAC	National Assessment and Accreditation Council
27.	NBA	National Board of Accreditation, New Delhi
28.	NCC	National Cadet Corps
29.	NERTU	Research & Training Unit for Navigational Electronics
30.	NSS	National Service Scheme
31.	PES	Power Electronic Systems
32.	PDS	Parallel and Distributed Systems
33.	PhD	Doctor of Philosophy
34.	PS	Power Systems
35.	PTPG	Part Time Post Graduate Courses
36.	R&D	Research & Development
37.	SSP	Systems and Signal Processing
38.	TDC	Technology Development Center
39.	TEQIP	Technical Education Quality Improvement Programme
40.	UCE	University College of Engineering
41.	UGC	University Grants Commission
42.	VLSI & ES	Very Large Scale Integration & Embedded Systems
43.	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 eight **undergraduate** programmes and twenty two **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 industry 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.	Programmes	Duration (Yrs)	Year of Commencement	Sanctioned Intake*
1	Civil Engineering (CE)	4	1929	60
2	Mechanical Engineering (ME)	4	1939	60
3	Electrical Engineering (EE)	4	1949	60
4	Electronics & Communication Engineering (ECE)	4	1959	60
5	Bio-Medical Engineering(BME)	4	1982	40
6	Computer Science & Engineering (CSE)	4	1985	60
7	Mining Engineering (MinE) (Self Finance)	4	2021	60
8	Artificial Intelligence and Machine Learning (AI&ML) (Self Finance)	4	2021	60

* An additional intake of 15 % of foreign students is offered in all branches.

* An additional intake of 10 % for Economically Weaker Section students into 1st year is offered in all branches.

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

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

S.No.	Programmes	Specialisations	Year of Commencement	Sanctioned Intake
1	Biomedical Engineering	Biomedical Electronics	2006	18
2	Civil Engineering	Structural Engineering	1961	25
		Water Resources Engineering	1961	10
		Geotechnical Engineering	1961	10
		Transportation Engineering	2008	15
3	Computer Science & Engineering	Computer Science & Engineering	1981	25
		Parallel and Distributed Systems	2007	15
		Artificial Intelligence and Machine Learning	2020	18
4	Electronics & Communication Engineering	Digital Systems	1964	13
		Microwave and Radar Engineering	1964	20
		Systems and Signal Processing	1964	13
		Embedded Systems & VLSI design	2006	13
5	Electrical Engineering	Industrial Drives and Controls	1966	20
		Power Systems	1966	13
		Power Electronics Systems	2008	15
6	Mechanical Engineering	Production Engineering	1966	18
		Automation & Robotics	1998	13
		Turbo Machinery	1996	20
		Tool Design	2002	32
		CAD/CAM	2001	32
		Design for Manufacture	2014	32
		Mechotronics	2021	20
7	Mining Engineering	Mining Engineering	2018	18

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

S.No.	Programmes	Specialisations	Year of Commencement	Sanctioned Intake
1	Civil Engineering	Structural Engineering	1966	20
2	Computer Science & Engineering	Computer Science & Engineering	1991	30
3	Electronics & Communication Engineering	Digital Systems	1975	15
		Systems and Signal Processing	1975	15
		Microwave & Radar Engineering	--	15

4	Electrical Engineering	Industrial Drives and Controls	1971	15
		Power Systems	1971	15
5	Mechanical Engg.	Production Engineering	1994	15
		Automation & Robotics	1994	15
		Turbo Machinery	1994	15

NIRF & UGC (Autonomous) Details :

S.No.	Title	Details
1	UGC Autonomous status for the college	2016-2022 (6 years)
2	NIRF Ranking (Engineering Stream) 2022	117 Rank

Post Graduate Program: MCA (Full Time- 2 Years)

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

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

Year (batch)	BME		CSE		CE		ECE		EE		MED		Total at College level
	Part	Full time	Part	Full time	Part	Full time	Part	Full time	Part	Full time	Part	Full time	
2016	-	-	5+1		-	-	04		-	-	-	-	10
2017	02	02	40	10	19	16	40	31	33	21	63	12	197 92
2018	-	-	05		-	-	07		-	-	-	-	12
2019	04	-	42+2*	30	29	39	40+7*	14	33	47	100	37	248+9* 167
2020	00	00	02	04	00	03	07	02	00	02	00	02	09 13
Ph.D's Awarded													
2015-2016	-	-	01		03		-		-	-	03		07
2016-2017	-	-	04		-		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
2019-2020	00	02	04	01	00	02	04	02	01	01			10 01

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

S. No.	Programmes	Accreditation
1	Biomedical Engineering	6Yrs (2019-25)
2	Civil Engineering	3Yrs (2019-22)
3	Computer Science & Engineering	3Yrs (2019-22)
4	Electronics & Communication Engineering	3Yrs (2019-22)
5	Electrical Engineering	3Yrs (2019-22)
6	Mechanical Engineering	3Yrs (2019-22)

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

S.No.	Programmes	Specializations	Accreditation
1	Civil Engineering	Structural Engg.	Applied for Renewal
		Water Resources Engg	Applied for Renewal
		Transportation Engineering	Applied for Renewal
2	Computer Science & Engg.	Computer Science & Engg	2021-2022 to 2023-2024 Up to 30-06-2024
3	Electrical Engineering	Power Systems	Applied for Renewal
		Industrial Drives and Controls	Applied for Renewal
		Power Electronics Systems.	Applied for Renewal
4	Mechanical Engineering	Production Engg	Applied for Renewal
		Turbo Machinery	Applied for Renewal
		Automation & Robotics	Applied for Renewal
5	Electronics & Communication Engineering	Microwave and Radar Engineering	Applied for Renewal

INTRODUCTION

The University College of Engineering (UCE) has the distinction of being the oldest and legacy institution in the state of Telangana. It was established in the year 1929, eleven years after the formation of Osmania University. The College was the 6th Engg. college to be established in the whole of British India. The College moved to its present permanent building in the year 1947. The Golden Jubilee of the College was celebrated in 1979, the Diamond Jubilee was celebrated in 1989 and the Platinum Jubilee organised in grand manner in 2004. The College was made autonomous in the year 1994. The University Grants Commission of India re-conferred autonomy status to the college for a period of 6 years (2016- 2022). The 103 years old Osmania University reaccredited by NAAC with A+ grade for 7 years period up to 2025.

The Institute offers eight UG programmes and 22 PG Programmes in various specialisations. The UG programme ECE Department is accredited by the NBA for a period of 3 years from June 2019, UG Programme BME has been accredited for a period of 6 years and UG Programmes CE, CSE, EE, ME have been accredited for a period of 3 years from Oct 2019, by the NBA, New Delhi. The University College of Engineering is the first Engineering College to get ISO: 9001 Certification in Telangana State. The University College of Engineering (A) was awarded with 88 Rank by NIRF, MHRD, New Delhi for the year 2020.

The college has successfully completed the Technical Education Quality Improvement Programme (TEQIP-I) under the World Bank for a tune of Rs. 15.48 Crores during the period 2003-2008. The college has successfully completed the phase-II of TEQIP program with a financial assistance for a tune of Rs. 12.5 Crores and additional grant of 5 Crores under the best performing institution category. Recently, AICTE has approved and identified the institute as QIP Centre for full time PhD programmes for in-service faculty members of various institutions.

The college has been selected for TEQIP Phase III including twinning program with a financial assistance for a tune of Rs. 7 Crores. Under TEQIP III, college has received an additional grant of Rs. 0.7 Crores due to one of the best performing institute in the Country by NPIU scored 1.13 (1-3 scale, 1 is excellent and 3 is satisfactory). The college has been granted 2.50 crores for “Visveswaraya Ph.D scheme for Electronics and IT” for full time and part-time PhD program for the two academic years 2017-18, 18-19 and admitted 18 students. The college received half Dozen SERB & Other projects including one SPARC project for a tune of 3 crores.

The college has been received 20 minor research projects in various disciplines during last 5 years. The University college of Engineering is fully automated college in the state of Telangana implemented all digital reforms in academics, examinations, office, placements and other offices. In this academic year two new market driven UG programs (i) Artificial Intelligence and Machine Learning and (ii) Mining Engineering are introduced under self finance category. The outcome of the TEQIP and others research projects has resulted in: i) increase in pass percentage of UG/PG students, ii) enrichment in research publications by three folds, iii) introduced Six New PG programmes upcoming areas, iv) introduction of CBCS & AICTE Model Curriculum and v) substantial increase in internal revenue generation. vi) increase of research Grant to college vii) International Exposure to the faculty viii) MOUs with industries and Foreign Universities etc.

ORGANIZATIONAL STRUCTURE

GOVERNING BODY

Chairperson Member & Convener Members

1. Prof. B.S. Murty, Director, IITH, Hyderabad.
2. Prof. Sriram Venkatesh, Principal
3. Prof. K.V.S. Hari
Dept. of ECE, Indian Institute of Science, Bangalore – 560012.
4. Sri Challa Rajendra Prasad
Chairman, CCL Products (India) Limited, Hyderabad – 500016.
5. Er. N. Venkateshwarlu
Engineer-in Chief, Kaleshwaram Project, Govt. of Telangana.
6. Sri. A. Pullaiah, RJDTE (FAC),
O/o the Commissioner of Technical Education, 2nd Floor, Vidya Bhavan,
Nampally, Hyderabad – 500001.
7. Prof. V. Bhikshma
Senior Professor
Dept. of Civil Engineering, UCE (A), OU.
8. Prof. A. Krishnaiah
Senior Professor
Dept. of Mechanical Engineering, UCE (A), OU.
9. Prof. B. Raja Sekhar
School of Management Studies, University of Hyderabad
Central University (PO), Hyderabad – 500046.

PRINCIPAL VICE-PRINCIPAL

1. Prof. Sriram Venkatesh
2. Prof. P. Chandra Sekhar

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2. Prof. K. Shashikanth, Chairperson, Board of Studies in Civil
Engg., (A), UCE, OU.
3. Prof. K. Saraswathamma, Board of Studies in Mech Engg., (A),
UCE, OU.
4. Mr. Ch. Siva Kumar, Chairperson, Board of Studies in EEE, (A),
UCE, OU.
5. Prof. P. Naveen Kumar, Chairperson, Board of Studies in ECE,
(A), UCE, OU.
6. Mr. M. Srinivas, Chairperson, Board of Studies in BME, (A), UCE,
OU.
7. Mr. S. Srinivas Rao, Chairperson, Board of Studies in CSE, (A),
UCE, OU.
8. Prof. Sriram Venkatesh, Chairperson, Board of Studies in Mining
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All the Heads of the Departments

9. Prof. P. Raja Sekhar, Head, Dept. of Civil Engg., UCE (A), OU.
10. Prof. M. Chandra Sekhar Reddy, Head, Dept. of Mech. Engg.,
UCE (A), OU.
11. Prof. G. Yesuratnam, Head, Dept. of EEE, UCE (A), OU.
12. Prof. L. Nirmala Devi, Head, Dept. of ECE, UCE (A), OU.



13. Dr. D. Suman, Head, Dept. of BME, UCE (A), OU.
14. Prof. K. Shyamala, Head, Dept. of CSE, UCE (A), OU.
15. Prof. Sriram Venkatesh, I/c, Head, Dept. of Mining Engg., UCE (A), OU.
16. Dr. P. Sarita Rajender, Head, Dept. of Chemistry, UCE (A), OU.
17. Dr. K. Ramesh Babu, Head, Dept. of Mathematics, UCE (A)OU.
18. Dr. N. Narismulu, Head, Dept. of Physics, UCE (A), OU.
19. Dr. Saveen Souda, Head, Dept. of English, UCE (A), OU.

Four Teachers of the College:

20. Prof. M. Kumar, Senior Professor, Dept. of Civil Engg., UCE (A), OU.
21. Prof. A. Krishnaiah, Senior Professor, Dept. of Mech Engg., UCE (A), OU.
22. Prof. N. Suresh Kumar, Dept. of Civil Engg., UCE (A), OU.
23. Prof. P. Chandra Sekhar, Dept. of ECE, UCE (A), OU.
Not less than four experts/academicians from outside the college representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.
24. Prof. S. Surya Kumar, Professor
Dept. of Mechanical Engineering Faculty –in-charge, Incubation Cell & Research Park, Indian Institute of Technology (IIT), Hyderabad.
25. Dr. G. Rameshwar Rao, FIE
Director
Engineering Staff College of India (ESCI) Gachibowli, Hyderabad.
26. Prof. Adepu Kumar, Professor & Head
Dept. of Mechanical Engineering, National Institute of Technology (NIT) Warangal.
27. Dr. M.V. Reddy
Consultant Hand Surgeon
Coordinator DNB (ORTHO), Sunshine Hospitals, Secunderabad.
28. Dr. P. Srihari
Scientist G, Program Director
Programme AD-RCI, Defence Research & Development Organization
Ministry of Defence, Kanchan bagh, Hyderabad – 500058.
29. Dr. N. Venkatesh
Senior Director
Silicon Labs, Hyderabad.
30. Mr. Aditya Ramamurthy
Vice-President, Platform Engineering
Service Now India, 8th Floor, SS Knowledge City Inorbit Mall Road, Hi Tech City, Hyderabad – 500081.

Three Nominees of the University.

31. The Dean, Development & UGC Affairs, OU.
32. The Director, Academic Audit Cell, OU.
33. The Principal, Univ. College of Technology, OU.

A Faculty member nominated by the Principal (Member Secretary).

34. Prof. V. Bhikshma
Director, CDAAC, UCE (A), OU.

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Coordinator QIP Centre	Prof. K. Saraswathamma
Director, CELT	Dr. Saveen Souda
NBA College Coordinator	Mr. P. Lokender Reddy
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NCC Coordinator	Dr. D. Suman
PRO, UCE	Dr. N. Susheela

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Bio-Medical Engineering	Dr. D. Suman
Civil Engineering	Prof. P. Raja Sekhar
Computer Science & Engineering	Prof. K. Shyamala
Electronics & Communication Engineering	Prof. L. Nirmala Devi
Electrical Engineering	Prof. G. Yesuratnam
Mechanical Engineering	Prof. M. Chandrasekhar Reddy
Mining Engineering	I/c. Prof. Sriram Venkatesh (Principal)
English	Dr. Saveen Souda
Chemistry	Dr. P. Sarita Rajender
Mathematics	Dr. K. Ramesh Babu
Physics	Dr. N. Narismlu

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	5. All the Heads of the Departments
	6. Mr. K. Rajender (Deputy Registrar)

STUDENTS ACTIVITIES BOARD S

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SAE Collegiate Club OU	5. Mr. E. Madhusudan Raju and Dr. R. Linga Swamy
Xplore OUCE	6. Dr. J. Upender



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	8.	Dr. D. Suman (BME)

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	3.	Prof. K. Saraswathamma
	4.	Dr. D. Suman
	5.	Dr. B. Sujatha
	6.	Prof. B. Rajendra Naik
	7.	Mr. K. Rajender (Deputy Registrar)

EXAMINATION CELL (UCE)

Director of Evaluation	1.	Prof. Narsimhulu Sanke
Joint Director of Evaluation (P.G)	2.	Mr. E. Madhusudan Raju
Joint Director of Evaluation (U.G)	3.	Dr. M. Shyam Sunder

CHIEF SUPERINTENDENT OFFICE, EXAMINATION (UCE)

Chief Superintendent	1.	Prof. P. Chandra Sekhar (Vice-Principal)
Associate Chief Superintendent	2.	Dr. M.V. Ramana Rao
Assistant Chief Superintendent	3.	Mrs. P. Srividya

HOSTEL COMMITTEE

Chairperson

1. Prof. Sriram Venkatesh
(Principal)

Vice-Chairperson

2. Prof. P. Chandra Sekhar
(Vice-Principal)

Members

Addl. Chief Warden & Convener

3. All HODs

Addl. Chief Warden Girls Hostel
& Mess

4. Prof. B. Mangu

5. Prof. P. Koti Lakshmi

General Warden Girls Hostel

6. Dr. N. Susheela

Mess Warden Girls Hostel

7. Dr. B. Sujatha

General Warden Kinnera
& New Kinnera Hostels

8. Dr. K.E. Ch. Vidyasagar

Mess Warden Kinnera Hostel

9. Mr. E. Madhusudan Raju

General Warden Ganga Hostel

10. Dr. M.V. Ramana Rao

Mess Warden Ganga Hostel

11. Mr. M. Srinivas

General Warden

12. Dr. M. Shyam Sunder

Swarnamukhi Hostel

STUDENT'S GRIEVANCES REDRESSAL COMMITTEE (SGRC)

Prof. P. Chandra Sekhar (Vice-Principal)

Chairperson

Addl. Chief Warden, (Boys)

Member

Addl. Chief Warden, (Girls)

Member

HoD Concerned

Co-opted Member

Coordinator, 1st year class room complex

Co-opted Member

EMPLOYEE'S GRIEVANCE COMMITTEE

Chairperson

1. Prof. P. Chandra Sekhar
(Vice-Principal)

Senior Teacher Nominated

2. Prof. V. Bhikshma

Convener

3. Mr. K. Rajender
(Deputy Registrar, Ex-Officio)

OTHER ADMINISTRATIVE OFFICERS – UCE(A)

- | | | |
|-----|----------------------------|---|
| 1. | Dr. P. Sarita Rajender | Coordinator, S & H Class Room Complex |
| 2. | Dr. K.E. Ch. Vidyasagar | Director, TDC Building, UCE & Incharge, Startup Cell, UCE OU |
| 3. | Mr. E. Madhusudan Raju | NSS Program Officer – Unit – I
SPoC from College for Swayam, Nodal Officer for PM SSS J&K and CSAB-NEUT Students |
| 4. | Dr. M.A. Hameed | NSS Program Officer – Unit – II |
| 5. | Prof. D. Annapurna | Special Officer (IS), UCE |
| 6. | Dr. N. Srilatha | Lay Student Advisor |
| 7. | Prof. D. Ramakrishna | Coordinator, GIAN & VAJRA Programmes |
| 8. | Dr. J. Upender | Website Incharge, UCE |
| 9. | Prof. L. Siva Rama Krishna | Director, R&D Cell |
| 10. | Dr. T. Nagaveni | Coordinator, Alumni Affairs |
| 11. | Mr. K. Rajender | Deputy Registrar, Ex-Officio |

ANTI RAGGING COMMITTEE

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2	Prof. P. Chandra Sekhar	ViceChairperson	Vice Principal	
3	Dr. D. Suman	Member	Head, Dept. of BME	8897855138
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7	Prof. L. Nirmala Devi	Member	Head, Dept. of ECE	9949513490
8	Prof. M. Chandra Sekhar Reddy	Member	Head, Dept. of ME	
9	Dr. N. Narsimlu	Member	Head, Dept. of Physics	9949617555
10	Dr. P. Sarita Rajender	Member	Co-ordinator, S & H Block	
11	Dr. Saveen Souda	Member	Head, Dept. of English	9989565645
12	Dr. K. Ramesh Babu	Member	Dept. of Maths	
13	Prof. B. Mangu	Member	Addl. Chief Warden Hostel	9849794210
14	Prof. P. Koti Lakshmi	Member	Addl. Chief Warden Girls Hostel & Mess	
15	Prof. B. Sunil Kumar	Member	Physical Director	7032479481



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16		Member	Director, Campus Hostels for Women	
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19	Mr. E. Madhusudhan Raju	Member	Mess Warden, Kinnera Hostel	9701948712
20	Dr. N. Susheela	Member	General Warden, Girls Hostel, UCE	9848995532
	Dr. N. Susheela	Member	PRO	9848995532
21	Dr. J. Upendar	Member	Placement Officer	8500003210
22	Dr. B. Sujatha	Member	Mess Warden, Girls Hostel	9948625313
23	Dr. M. Shyam Sundar	Member	Warden, Swamamukhi Hostel	9885433203
24	Dr. M.V. Ramana Rao	Member	Warden, Ganga Hostel	
25	Mr. M. Srinivas	Member	Mess Warden, Ganga Hostel	9703063245
26	Mr. K. Rajender	Member	Deputy Registrar	9949900533
27		Member	Librarian, Diamond Jubilee Library	

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32	Mr. Ch. Mahanth		6303050657
33	Ms. Varshitha		7680052519
34	G. Ramsai		9652157963
35	Mr. Ramcharan		7075226558
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37	Mr. PVV RamanaMurty		996919484

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3.	B.E. 5 th & 6 th Sem.	Mrs. G. Shravanya	9515359973
4.	B.E. 7 th & 8 th Sem.	Mr. M.Srinivas	9703063245
S. No.	M.E.	Faculty Advisor	Mobile No.
5.	M.E. (BME) 1 st Year	Mr. Kiran Kore	9502161026
6.	M.E. (BME) 2 nd Year	Dr.K.E.Ch.Vidyasagar	9908143701
II	Civil Engg		
S. No.	B.E	Mentor Name	Mobile No.
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2.	B.E. 3 rd & 4 th Sem.	Dr. Harish Gupta	6301921871
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4.	B.E. 7 th & 8 th Sem.	Mr. L. Ajay Kumar	9160989555
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9.	M.E. (Transportation Engineering)	Prof. D. Rajashekar Reddy	9493190672
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Mrs. G. Sujatha	Asst. Prof(C)	9490255819	gujjula.sujatha@gmail.com
Mrs. V.Sreedevi	Asst. Prof(C)	9885292810	vsdevi15@gmail.com
Mrs. P. Reshma	Asst. Prof(C)	9052499330	reshma.reddy860@gmail.com
English			
Dr. Saveen Souda (Head)	Asso. Prof	9989565645	savisou@gmail.com
Mrs. Suma Bindu Pothuri	Asst. Prof(C)	9985856507	sumabindutrainar@gmail.com
Dr. Lakshmi Mantha	Asst. Prof(C)	9849752655	laksrimantha@yahoo.co.in
Mathematics			
Dr.K.Phaneendra (Head)	Asst.Prof.	9849712466	kollujuphaneendra@gmail.com
Dr. Y.Rameshwar	Asso. Prof	8977241872	rameshwar@osmania.ac.in
Dr.K.Ramesh Babu	Asst.Prof.	8688767039	ramesh.kasba@gmail.com
Dr. Pothu Thirupathi	Asst. Prof(C)	9949325015	thrupathi@gmail.com
Mr. K. Ramalingaiah	Asst. Prof(C)	9010015790	Kadarirama2@gmail.com
Dept. of Physical Education			
Dr. B. Sunil Kumar (Head)	Professor	7032479481	drbsk.sport@gmail.com



Library			
Dr. P. Damodhar	Library Asst.	9059405311	pdamodhar@yahoo.com
Mr. B. Kumar	Library Asst.	9391130091	boyakumar123@yahoo.com
Computer Science Engineering (Guest Faculty)			
Prof. K. Veerabhara Rao	Adjunct Professor		
Electronics & Communications Engineering (Guest Faculty)			
Prof. V. M. Pandari Pande	Adjunct Professor		
Prof. Rameshar Rao	Adjunct Professor		
Prof. Ananth Raj	Adjunct Professor		
Mining Engineering (Guest Faculty)			
Mr. Ch.Venkat Ramana	Guest faculty from SCCL		
Mr. M. Satish Kumar	Guest faculty from SCCL		

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.Vishweshwaraiah 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



S.No	Nature of Award	Person/Institute Received	Year of Award
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 Commission, 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
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 International 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



S.No	Nature of Award	Person/Institute Received	Year of Award
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 Institute of Engineers, Telangana Chapter	Prof SriramVenkatesh Dept. of MED	2017
35.	Best Teacher Award- 2018 by Government of Telangana	Prof. M. Kumar Dept. of CED	2018
36.	Engineer of the Year-2018 Institute of Engineers, Telangana Chapter	Prof. M. Kumar Dept. of CED	2018
37.	“Meritorious Teacher Award-2019 to University Teachers by Government of Telangana.	Prof Sriram Venkatesh Dept. of MED	2019
38.	JALA RATNA AWARD- 2019 ByInstitute of Engineers on the eve of birth anniversary of Late Er. R. Vidyasagar Rao.	Prof. M. Gopal Naik Dept. of CED	2019
39.	Engineer of the year award by The Institute of Engineers, Hyderabad Chapter.	Prof. G. Mallesham Dept. of EED	2019
40.	Vishwesharaya Best Faculty Award by Smart Infrast Trustee of India	Prof. M. Kumar Dept. of CED	2019
41.	Meritorious Teacher Award-2020 to University Teachers by Government of Telangana	Prof. A. Krishnaiah Dept. of MED	2020
42.	Meritorious Teacher Award-2020 to University Teachers by Government of Telangana	Prof. M. Gopal Naik Dept. of CED	2020
43.	Best Teacher Award-2020 to University Teachers by Government of Telangana	Dr. G. Mallesham Dept. of EED	2020
44.	“CHSN2020 -Young Researcher Award” (Presented by Chairman, AP State Council for Higher Education, VC JNTUK and VC Rayalaseema University)	Prof.P.NaveenKumar	2020
45.	Engineer of the Year award-2020 Awarded by Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana	Prof. M. Gopal Naik	2020



S.No	Nature of Award	Person/Institute Received	Year of Award
46.	Bharat Ratna sir Mokshagundam Vishveshwaraiah Award	Prof. Dr Sriram Venkatesh	2021
47.	Best Women Researcher in Science and Technology Award (Presented by AICTE Coordinator, Chairman, AP State Council for Higher Education and VC JNTUK)	Prof.L.Nirmala devi	2021
48.	Award for Excellence in Research (Presented by Initiative Global Research and Development Awards-21, Record Owner -Home of World Records, India)	Prof.P.NaveenKumar	2021
49.	Vice Chancellors Award for Research Excellence	Dr. K. E. Ch. Vidyasagar	2022

List of Ph.Ds Awarded by UCE, OU for the year 2020-2021

S. No	Supervisor Name	Student Name	Title of Thesis
Biomedical Engineering Department			
1	Prof. M. Malini	Mrs. O.M. Sumathi	Design and Development of an Intelligent Wireless Vital Sign Monitoring System
Civil Engineering Department			
2	Prof.V.Bhikshma	Mr. S. Gangaram	Strength and Durability Characteristics of Recycled Aggregate Concrete
3	Dr. Harish Gupta	Mr. S. Kiran Kumar Reddy	Biogeochemistry of Carbon in the Western Ghats Coastal Rivers, India
Computer Science Engineering			
1	Prof.S.Sameen Fatima	Mrs.L.Smitha	Enhanced Topical and2 Trust Based Page Ranking using Trust Features
2	Prof.T.Adilakshmi	Mr.Matta Venkata Ramana Rao	Energy –Aware Cluster based Routing in Wireless Sensor Networks
3	Prof.C.R.K.Reddy	Mr.L.Raghavendar Raju	“An Efficient and Secure Quality of Services in Mobile Adhoc Network”
4	Dr.Suresh Pabboju	Mr.Shankarnayak Bhukya	“An Effective Risk Analysis in Requirement Engineering using Modified Goal Risk Model”
5	Prof.S.Ramachand	Mr.K.Srinivasa	Secure Schemes For Executing

	ram	Reddy	SQL-Range Queries Over Encrypted Data And Cryptographic Multi-User Key Management”
6	Prof.P.Ram Kumar	Mr.Vijendar Amgothu	Analysis of MRI Medical Image Processing Using Deep Learning Model”
7	Prof.P.Premchand	Mr.Raghavender K V	“A Novel Approach for DDoS Detection and Prediction using Hybrid Algorithm”
8	Prof.S.Ramachandram	Mr.I.Govardhana Rao	Key Management in Multi- User Access to Encrypted Data on Cloud
9	Prof. Pabboju Suresh	Mrs.Swathy Vodithala	“An Integrated Approach For Component Based Software Reuse Using Behavioral Matching And Genetic Algorithm”
10	Dr.V.B.Narasimha	Mr.Satyanarayan a Nimmala	“Design and Development of Machine Learning Computational Models to Predict High Blood Pressure”

Electronics & Communications Engineering Department

4	Prof.KakarlaSubba Rao	Mr. M.Shyamsunder	Classification and Estimation of modulation parameters of LPI Radar
5	Prof.Krishna Reddy	Mr. P.Sathish	Investigation of performance analysis satellite-based Navigation receiver for mobile environment
6	Prof. M.R.K. Murthy	K.Ramakrishna	GPS-Radar CNS data fusion for optimal AIR space management
7	Prof.Kaleem Fathima	Mrs. Salma fouzia	QoS based Directional Routing in free space optical MANETs
8	Prof.B.Rajendra Naik	Mrs. ShobhanMude	Novel method for performance improvement in polar codes for communication system
9	Prof.P.Chandrasekhar	Mrs. N.K.Murthy	Hybrid EM computational technique for Antenna analysis.
10	Prof.B.Rajendra Naik	Mrs. A.Nageshwar Rao	Novel approach to maximize the Network lifetime of WSN through metaheuristic algorithm

Electrical Engineering Department

11	Prof. P. Satish Kumar	Mr. T. Surya Prakash	A Novel Four Converter Topology of Interline Unified Power Quality Conditioner for
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			Power Quality Improvement in Multi-Feeder Systems
Mechanical Engineering Department			
12	Prof. Sriram Venkatesh	Mr. Narayana Battula	Experimental Investigations on Building of Quality Prototypes by SLS 3D Printing Process: Parametric Optimisation By Taguchi Method
13	Prof. M.V.S. Murali Krishna (Retd.)	Mr. G. Srinivas Sharma	Experimental Investigation on Biomass integrated gasifier / gas turbine technology for power generation
14	Prof. P. Usha Sri Prof. M.V.S. Muralikrishna (Retd.)	Ms. Indira Priyadarsini	Studies on Control of Emissions from Spark Ignition Engine
15	Prof. Sriram Venkatesh	Mr. Mahesh Kumar Rajpurohit	Numerical Study to Design & Develop a Vertical Launcher system for Solid Propellant Rocket and Evaluation by Experimental Method
16	Prof. D.N. Reddy (Retd.)	Mr. A.V. Sudhakar Reddy	Integrated Development of Divert Thruster Flight Propulsion Control System (DTFPCS) Simulation Model
17	Prof. . S. Rajesham Dr. P. Ravinder Reddy, (Retd.)	Mr. Araveeti C Sekhara Reddy	Optimization of Parameters and Evaluation of Limiting Drawing Ratio in deep drawing
18	Prof. Sriram Venkatesh Dr. K. Balasubramanian	Mr. Rahul SH	Microfabrication using 3D inkjet printing process for manufacture of functionally graded oxide materials
19	Prof. P. Laxminarayana	Mr. Ashok Kumar	Experimental Investigation of Micro Hole Machining Using Die Sinker EDM with Taguchi Approach

List of UCE Faculty received Ph.D degree in the year 2021-2022

S. No	Supervisor Name	Faculty Name	Title of Thesis	Year
Bio Medical Engineering Department				
1	Dr. Dinesh Kalyanasundaram	Dr. K. E. Ch. Vidyasagar	Laser Surface texturing of freeform surfaces of articulating components for enhanced tribo-corrosion properties	2023
2	Prof. P. Chandra sekhar	Dr. K. Harish	A Novel Pulmonary Nodule Detection and Classification Framework using Statistical and Machine Learning Methods	2023
Computer Science & Engineering				
1	Prof.K.V.Chalapathi Rao	Mr.L.K.Suresh Kumar	Security Framework for Wireless Sensor Networks	2022
2	Prof.K.Ram Mohan Rao	Mr.M.Venkat Dass	Trust Based Secure Routing and Quality of Services in Mobile Ad Hoc Networks(MANETS)	2022
Electronics & Communications Engineering Department				
2	Prof. KakarlaSubba Rao (Retd.)	Mr.M.Shyamsunder	Classification and Estimation of Modulation parameters of LPI Radar signals.	2020
Electrical Engineerig Department				
3	Prof. G. Yesuratnam	Mrs. N. Srilatha	Congestion Management in Power System Using Artificial Intelligence	2021
Mechanical Engineering Department				
4	Prof. .P. Laxminarayana Professor	Mr.Ashok Kumar	Experimental Investigation of Micro Hole Machining Using Die Sinker EDM with Taguchi Approach	2021
5	Ph. D. in Metallurgy and Materials Engineering from IIT Madras.	TSRV Padmalatha	Workability and Hot Deformation Behaviour of Metastable Beta	2020

			Titanium Alloys Ti 5553 and Ti 5373	
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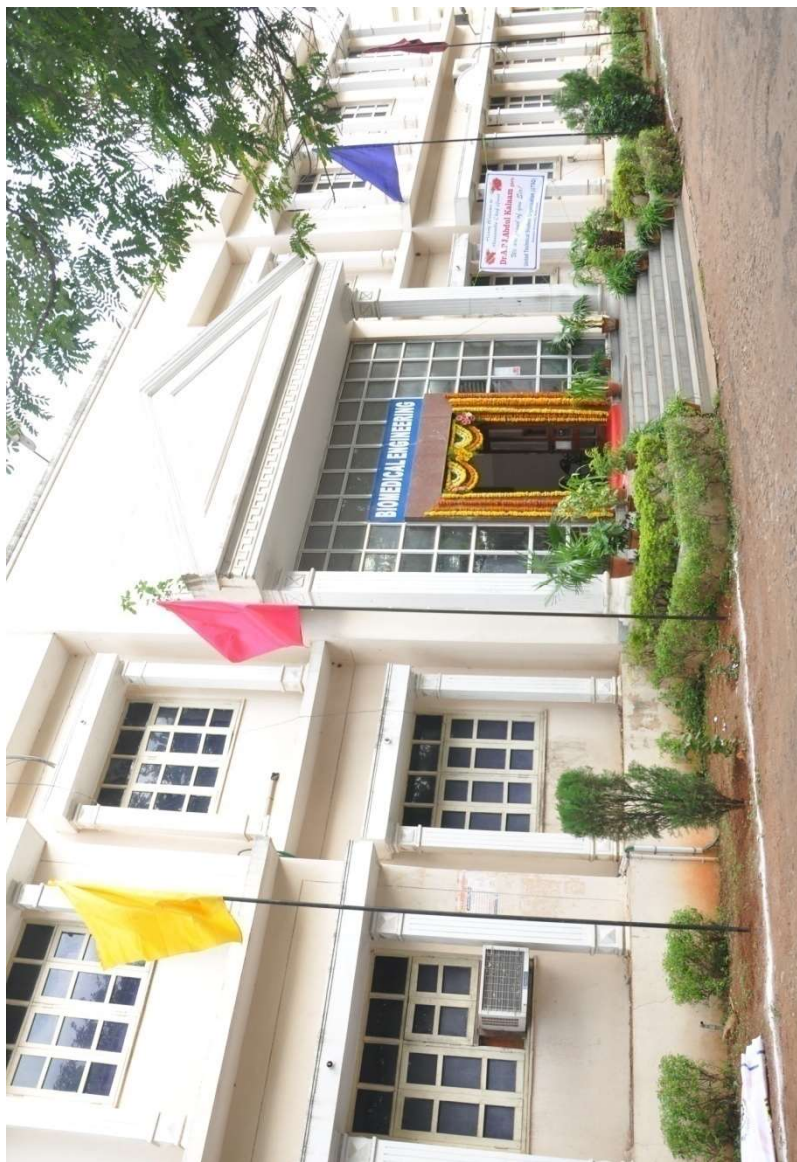
Patents details of students and faculty

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
1	Mr. K.E.Ch. Vidyasagar (BME), & Dr. Sudesh Sivarasu	Mobile Controlled multi drug delivery system, Patent No.: 288750 for 20 years, 2017, Granted
2	Mr. K.E.Ch. Vidyasagar (BME), & Dr. Sudesh Sivarasu	Mobile Controlled multi drug infusion system , Patent No.: 304847 for 20 years. , 2018 , Granted
3	DR. P. Premchand (CSE)	A NOVEL METHOD AND SYSTEM FOR DETECTING NEAR DUPLICATORS FOR BOTH WEB DOCUMENTS AND NORMAL DOCUMENTS, Ref No: 627/CHE/2014, 11-02-2014, Applied
4	Mr.Aravind, Ms.Soundarya and Mr.M.Venkateswara Rao (BME)	Syncope detection emergency messaging, Ref No: 1639/CHE/2009, Applied
5	Mrs. B SaiLalitha, Prof. M Malini(BME), Mr. M VenkateswaraRao (BME)	Cryo probe used in Cardiac surgery, Ref No: 6317/CHE/2014, 16/12/2014, Applied
6	Mrs. B SaiLalitha, Prod. M Malini (BME), Mr. M Venkateswara Rao(BME)	Portable Non-invasive multi-wavelength photo plethysmographic measuring technique for Hemoglobin, Ref No: 201641039799, 22-11-2016 , Applied
7	Mrs. B SaiLalitha, Prof. M Malini(BME), Mr. M Venkateswara Rao (BME)Rao (BME)	A Portable device for Automated cradle movement , Ref No: 201741007378, 03-02-2017, Applied
8	Mr. M.Venkateswara Rao (BME) (Retd.)	INTELLIGENT SYSTEM FOR MONITORING AND BALANCING OF BATTERY VOLTAGE, Ref No: 201741047449, 05-01-2018, Applied
9	Prof. P. Satish Kumar (EED)	Implementation of SVPWM Techniques to A Multilevel Inverter”, Application No. 201741042315A, published in the Official Journal of Patent, Issue No. 48/2017, page No. 45227, dated 01/12/2017, Applied
10	Prof. P. Satish Kumar (EED)	Asymmetrical Cascade H-Bridge Multilevel Inverter with Reduced Power Switches”, Application No. 201741033742A, published in the Official Journal of Patent, Issue No. 09/2018,

		page No. 7745, dated 02/03/2018. Applied
11	Dr.B.Sujatha (CSE)	Federated Learning based Intrusion Detection System, Reference Number : 201941032612A, 20/09/2019 , Applied
12	Prof. P. V. N. Prasad (EED) (Retd.)	Applied for Patent, titled “Method for Detecting Optimal Location and Coordinated Control of Dstatcom In A Radial Distribution Network” on 31 st December, 2019, Applied
13	Dr. V. B. Narasimha (CSE)	BLOCKCHAIN METHOD OF IOT BASED SOLUTIONS FOR FINANCES TRANSACTION MANAGEMENT OF CRYPTO CURRENCY, Reference Number : 201941052741,, 20-12-2019, Applied
14	Dr. V. B. Narasimha (CSE)	MACHINE LEARNING BASED GUIDING SYSTEM FOR VISUAL IMPAIRED PERSON , Reference Number : 201941051792, 20-12-2019, Applied
15	Satyanna Kodeimala, CSE- Research Scholar	REAL-TIME MONITORING SYSTEM FOR COMPRESSED GAS ARTIFICIAL LIFT & METHOD THEREOF, Reference Number : 202041005255, 14-02-2020, Applied
16	Prof. P. SATISH KUMAR (EED),	“Smart Self Disinfecting Face Shield”, 330167-001, Granted - date 18.2.2020
17	Prof. B. Rajendra Naik (ECE)	NON-INVASIVE PORTABLE DEVICE FOR MEASURING HEMOGLOBIN AND BLOOD PRESSURE USING ARTIFICIAL INTELLIGENCE, Reference Number : : 201941041551, 20-03-2020, Applied
18	Prof. P. SATISH KUMAR (EED), Mr. SURYA PRAKASH THOTA -EEE- Research Scholar	NOVEL INTERLINE UNIFIED POWER QUALITY CONDITIONER (IUPQC) FOR MULTI-FEEDER SYSTEMS WITH FOUR CONVERTERS, IN201941045730, Publication Number – 201941045730, Publication Date - 28.08.2020
19	Prof. A. Krishnaiah (MED) and other 6 members	AN EXPERIMENTAL STUDY TO DETERMINE THE COP OF THE DOMESTIC REFRIGERATOR WHEN THEPROPANE BUTANE COMBINATION ADDED TO LPG, Reference Number : 202041038048 , Publication date: 11-09-2020
20	Mr. Bittu Kumar, Research And Training Unit For Navigational Electronics (NERTU),	DEEP LEARNING BASED ENERGY EFFICIENT SMART ECOSYSTEM FOR SMART CITIES MERGED WITH IOT , IN 202011036436 , Publication Number – 202011036436, Publication Date - 25.09.2020

21	Prof. P. SATISH KUMAR (EED)	Machine Learning Based Fish Monitoring Machine and Method Thereof, 2020102433, Austrailain patent, Granted - date 25.09.2020
22	Prof. A. Krishnaiah (MED), T.Paramesh, Research Scholar (MED), T. Vijay Kumar Research Scholar (MED), Abdul Khadeer SK Research Scholar (MED),	FRICITION STIR SPOT WELDMENTS USING DIFFERENT TOOLS MATERIALS BY TAPER THREAD PROFILE EN 31 AND EN 19 ON DISSIMILAR METALS, IN202141002714 , Publication Number – 202141002714, Publication Date - 29.01.2021
23	Prof. P. Srinivas (EED), G. Jhansi Rani Assistant Professor © (EED)	DESIGN AND ASSESSMENT OF INTERFACE CIRCUIT FOCUSED ON BIDIRECTIONAL DC TO DC CONVERTER, IN202141004300, Publication Number – 202141004300, Publication Date - 05.02.2021
24	Mr. T.Paramesh, Research Scholar (MED), and other 6 members	DESIGN AND MODELLING OF DIESEL PARTICULATE FILTER TO REDUCE THE EMISSIONS FROM CI ENGINE, IN202141006707, Publication Number- 202141006707, Publication Date - 26.02.2021
25	Prof.Rajendra Naik and Prof.L.NirmalaDevi	“3D Protective Mask Based Water Quality Monitoring System Powered by Solar with Good Detection” Patent publication date on 05-03-2021, India. Applied, Published
26	Mrs. G. Jhansi Rani, Assistant Professor (c) (EED)	DG PLACEMENT FOR MAXIMUM LOSS REDUCTION IN RADIAL DISTRIBUTION SYSTEM USING ABC ALGORITHM, IN202141022450, Publication Number- 202141022450, Publication Date- 18.06.2021
27	Prof. P. Usha Sri, Mrs. P. Yagnasri, Mr. N. Seetharamaiah	Design of Nano-Magnetorheological Fluid Damper and Synthesis of the Nano-Magnetorheological fluid , 2021103737, 30/06/2021
28	Prof. A. Krishnaiah (MED), T.Paramesh, Research Scholar (MED)	INFLUENCE OF WELDING SPEED ON TENSILE STRENGTH OF WELDED JOINT IN TIG WELDING PROCESS, IN202141027791, Publication Number- 202141027791, Publication Date- 09.07.2021.
29	T.Paramesh, Research Scholar (MED), and other 7 members	PROCESS OF PLASTIC WASTE FOR PRODUCTS OF BUILDING MATERIALS WITH PLASTIC EXTRUSION METHOD, IN202141030245, Publication Number- 202141030245, Publication Date-16.07.2021

DEPARTMENT OF BIOMEDICAL ENGINEERING



DEPARTMENT OF BIOMEDICAL ENGINEERING

Fax & Phone No: 040-27090083, 27682233

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

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 Six years with effect from November 2019. A special appreciation was given by the visiting expert team.









Academic Programmes:

Undergraduate	B.E (Biomedical Engineering)
Post Graduate	M.E (Biomedical Electronics)
Doctoral Programme	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.

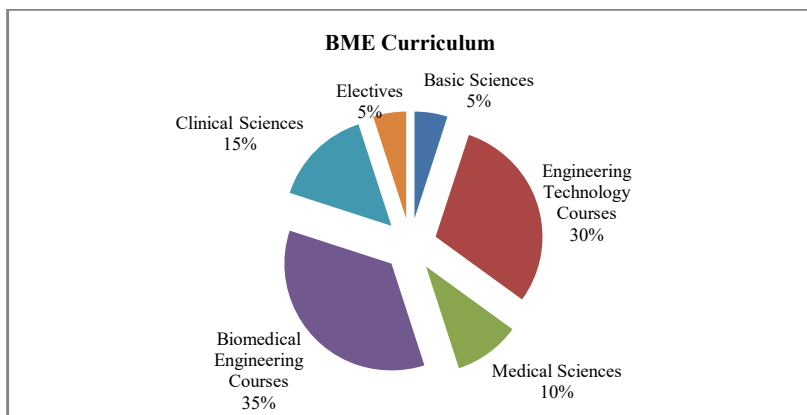
Faculty details:

Name and Designation		Areas of Specialization
	Dr. D.Suman, Ph.D MIACSIT, MBMESI Assistant Professor & Head of Department	Biomedical Instrumentation, Biomedical Signal Processing, Internet of Things based Medical Applications
	Dr. M.Malini, Ph.D., MIE., MISTE, LMISOL, MBMESI Professor Chairperson BOS(OU)	Biomedical Signal Processing, Embedded Medical Instrumentation, Biomechanics.
	Mr. M.Srinivas M.E.(Ph.D) Assistant Professor	BioMedical Equipment, Instrumentation, Hospital Administration & Management
	Ms. G.Shravanya M.S.(Ph.D) Assistant Professor	Tissue Engineering, Sensors, Biomaterials
	Dr. K.E.Ch.Vidyasagar Ph.D (IIT Delhi) Assistant Professor	Bio-tribology, Laser based Micro and Nano machining, Surface texturing, Brain Machine Interfacing, Rehabilitation Engineering,
Assistant Professors (Contract)		
	Mrs. B. Gayatri M.Tech	Biomedical Instrumentation, Biomedical Signal Processing
	Mr. Kiran Kore M.Tech, (Ph.D)	Biomedical Instrumentation, Laser applications in medicine
	Dr. K Harish Ph.D	Biomedical Image Processing, Medical Embedded Systems

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.

Curriculum:

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



Pie Chart of the B.E (BME) Curriculum

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, DRDO, Universities, DEBEL, Many of the universities in abroad are offering research positions in Biomedical Engineering.
Medical Device companies	Siemens Medical Ltd., GE healthcare, L & T medical, Philips medical, BPL medical, Novartis healthcare, Medisun, Pricol medical systems, Covedien - Delhi, Medtronic, Baxter, Boston scientific, Veol Medical Technologies, vTitan Corporation Pvt. Ltd, Relisys Medical Devices Limited, MediVed Innovations etc.
Hospitals	Gandhi hospital, Kamineni hospital, Global hospital Apollo, CARE hospital, Medicity, NIMS, Yashoda hospital, Vasan Eye care, Oxygen hospital, rainbow children's hospital, Innova hospitals, Galaxy hospital etc.
Public Sector in	

Field	Organizations
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.

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

Research/Consultancy Projects:

S.No	Name of Principal Investigator	Funding Agency	From	To	Title of the Project	Grant (Rs. in Lakhs)
1.	Dr. D.Suman	DST-SERB-TARE	2022	2025	RF Hyperthermia application of Nanoferrites for Cancer Therapy	17.97
2.	Dr. D.Suman	TSCOST	2020	2021	A study of Sub thalamic Local Field Potentials of Parkinson's patients under Deep Brain Stimulation therapy for finding the potential biomarkers	4.0
3.	Mr.	DST-	2017	2020	Gait Analysis in	15.00

S.No	Name of Principal Investigator	Funding Agency	From	To	Title of the Project	Grant (Rs. in Lakhs)
	M.Venkateswara Rao & Mr. M.Srinivas	PURSE			Parkinson's disease	
4.	Dr. M.Malini	DST-PURSE	2017	2020	Analysis of Fetal Heart rate variability	4.0
5.	Dr. D.Suman	DST-PURSE	2017	2019	A holistic therapeutic approach of Yoga and Meditation for the Hypertension- A clinical study on the Autonomic Control system	4.0
6.	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
7.	Prof. M. Malini	MRP, UGC	2016	2020	Wireless Data Acquisition system for vital sign monitoring	2.64
8.	Dr. D.Suman	MRP, UGC	2017	2019	Design and Development of a Fuzzy Expert system for the mitigation of drowsy driving of the heavy vehicles	5.0
9.	Mr. K.E.Ch.Vidyasagar	MRP, UGC	2016	2020	Design and Development of automatic epilepsy detection and classification system	3.8
10.	Dr. 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
11.	Mr. M. Venkateswara Rao & Prof. M.Malini	UPE Status of UGC	2013	2018	Hyperthermia application of Nano materials for cancer Therapy	73.50

Consultancy Projects details from 2016-2021 (5 years) Completed

S.No.	Name of Principal Investigator	Funding Agency & From -To	Title of the Project	Grant (Rs. in Lakhs)
1	Mr.	BIG (DBT)	Design and	4.62



	M.Venkateswara Rao	Grant March, 2019 - October,2020	Development of sickle cell disorder detector	
2	Mr.M.Venkateswara Rao	BIG (DBT) Grant March 2018 - August, 2019	Skin grafting for Vitiligo cases	4.8
3	Dr.D Suman	Thumbay hospitals 14th Jan, 2017	Calibration of Medical equipment of Thumbay hospitals	0.90
4	BMIC	Thumbay hospitals 11th Jan, 2018	Design and development of OT table remote and control panel	0.46
5	BMIC	RISE hospitals 20/02/2018	Calibration of Medical equipment of RISE hospitals	0.45
6	BMIC	Thumbay hospitals 6th march, 2018	Calibration of Medical equipment of Thumbay hospitals	1.50
7	BMIC	Lotus hospitals 4th Aug, 2018	Calibration of Medical equipment of Thumbay hospitals	1.95
8	BMIC	Lotus hospitals 6th March, 2019	OT light repair services	0.18

List of Laboratories of the Department:

S. No	Name of Laboratory	Purpose (UG/ PG, Course Name, Sem, year, dept details)	Cumulative Number of Equipments	Number of Computers (Desktops/ laptops)	New equipment/ computers purchased in 2019-2020.
1	Computer Lab	UG – C Programming lab	-	24 Desktops	20 Desktops
2	BMSP Lab	UG – BMSIP lab	-	10 Desktops	10 Desktops
3	BME Lab	UG – BME lab, UG – BMI lab	50	-	
4	Electronics Lab	UG – EDC lab, UG – EC lab, UG – DE lab	50	-	
5	MES Lab	UG – MES lab,	-	30	

		PG – ES lab		Desktops	
6	TBE lab	PG – TBE lab	20	-	2 Equipment
7	Project Room	PG PhD research lab	10	3 Desktops	

7. Infrastructure:

Software: Mimics, 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.	Anesthesia Machine
2.	Ventilator
3.	Electro Cautery Machine
4.	2 channel Infusion pump Analyzer
5.	Gas flow analyzer
6.	EEG 10-20 Electrode cap
7.	Vital Sign Analyzer
8.	Driving simulator
9.	Motorized Wheel Chair
10.	Microprocessors (8085, 8086) and Microcontrollers Boards (PIC, 8051) and their interfacing kits.
11.	Clinical Analyzer
12.	AD Instruments Computerized Data Acquisition System
13.	PCB prototype machine
14.	Sensor Development Boards
15.	TMT Machine
16.	100MHz Digital Storage Oscilloscope
17.	National Instruments ELVIS II+ Development board
18.	DSP 2X, 6X processors
19.	Photo therapy equipment
20.	ECG Recorder
21.	X-Ray unit
22.	Ultrasound scanning machine
23.	LX500 Labomed microscope

8. 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.

9. Distinguished Alumni:

1	Ravi Bellamkonda	Provost and Executive Vice President for Academic Affairs at Emory University, 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 Internship Boston Scientific Corporation Miami, Fl.
10	Mallikarjun	Head, Biomedical Engineering division, NIMS, Hyderabad.



10. List of Publications in International Journals by Faculty

S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
1	Gupta N, N Tandon, RK Pandey, K.E.Ch.Vidyasagar , Kalyanasundaram D	Exploratory tribodynamic research on textured gearsets lubricated with Molybdenum disulfide blended grease	Tribology International 2022;	165: 1-18. (IF: 5.62)	
2	Sikidar A, K.E.Ch.Vidyasagar , Gupta M, Garg B, Kalyanasundaram D.	Classification of mild and severe adolescent idiopathic scoliosis (AIS) from healthy subjects via a supervised learning model based on electromyogram and ground reaction force data during gait	Biocybernetics and Biomedical Engineering, 2022;	42: 870-887. (IF: 5.687)	
3	Verma M, Rana A, K.E.Ch.Vidyasagar , Kalyanasundaram D, Saha S.	Protein Patterning on Microtextured Polymeric Nanobrush Templates Obtained by Nanosecond Fiber Laser	Macromolecular Bioscience, 2022;	22: 1-15. (IF: 5.859)	
4	K.E.Ch.Vidyasagar , Pandey RK, Kalyanasundaram D	Improvement of deep groove ball bearing's performance using a bionic textured inner race	Journal of Bionic Engineering	Volume 18 Page:974-990 (IF: 2.682)	
5	K.E.Ch.Vidyasagar , Pandey RK, Kalyanasundaram D	An exploration of frictional and vibrational behaviors of textured deep groove ball bearing in the vicinity of requisite minimum load	Friction	Volume 9: Page: 1749-1765.(IF:6.168)	SCL, Scopus, Web of Science, Google



S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
					Scholar
6	K.E.Ch.Vidyasagar , Aggarwal V, Sinha SS, Saha SK, Kalyanasundaram D	Laser based micro texturing of freeform surfaces of implants using a Stewart platform	Precision Engineering	Volume 72 Page:294–303. (IF: 3.156)	SCI, Scopus Web of Science Google Scholar
7	K.E.Ch.Vidyasagar , Rana A, Kalyanasundaram D	Optimization of laser parameters for improved corrosion resistance of nitinol	Materials and Manufacturing Processes	Volume 35 Page:1661–1669. (IF: 4.616)	SCI, Scopus Web of Science Google Scholar
8	Gupta N, N Tandon, RK Pandey, K.E.Ch.Vidyasagar , Kalyanasundaram D.	Tribological and Vibration Studies of Textured Spur Gear Pairs Under Fully Flooded and Starved Lubricating Conditions	<i>Tribology Transactions</i>	Volume 63 Page: 1103-1120.	SCI, Scopus Web of Science Google Scholar
9	Shravanya Gundu , Ajay Kumar Sahi, Neelima Varshney, Johnny Varghese, Niraj K. Vishwakarma & Sanjeev Kumar Mahto	Fabrication and in vitro characterization of luffa-based composite scaffolds incorporated with gelatin, hydroxyapatite and psyllium husk for bone tissue engineering.	Journal of Biomaterials Science, Polymer Edition	DOI: 10.1080/09205063.2022.2101415 (2022):	
10	Madhusudhanan, J., Gundu , S., Kavitha, K., Abirami, D.,	Role of nanomaterials with special reference to	International Journal of Health Sciences	6(S3), 7210–7227, https://doi.org/10.53730/ijhs.v6nS3.7736 .	





S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
	Manickam, R., & Ahamed, N. M. I.	pharmaceutical technology.		(2022)	
11	A. Ushasri and Dr. M. Malini	Classification of FHR signals based on Morphological features	ECS transactions (SCOPUS), The Electrochemical Society	Volume 107, Number 1, 2022	
12	A. Ushasri, Dr. M. Malini , S. Sreeja and K. Meghana	Simulation of FHR signals with Abnormal Variability	Grenze International Journal of Engineering and Technology (SCOPUS),	Volume 8, Issue 2, June 2022	
13	HarikrishnaMulam, Malini Mudigonda	EmpiricalMean Curve Decomposition with Multiwavelet Transformation for Eye Movements Recognition using Electrooculogram Signals	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine Sage Publications	Published Online on 03/07/2020 https://doi.org/10.1177/0954411920924496 ISSN: 0954-4119 Online ISSN: 2041-3033 Impact Factor: 1.282	SCI, Scopus Web of Science Google Scholar
14	Rinki Kumari, Anjali Verma, Disha Sharma, Sudhanshu Mishra, Ajay Kumar Sahi, Shravanya Gundu , Nanki Singh, Jasmeet Singh, Simon Agongo Azure, Anita Venaik	Mechanism Ethnomedicinal and Phytochemical Effect of Ayurvedic Plants in Prevention and Management of Senile Dementia of Alzheimer's Disease: A Review	International Journal of Pharmaceutical Research June 2021	DOI:10.31838/ijpr/2021.13.02.333	
15	Ajay Kumar Sahi, Neelima Varshney, Suruchi Poddar, Shravanya Gundu , Sanjeev Kumar Mahto	Fabrication and Characterization of Silk Fibroin- Based Nanofibrous Scaffolds Supplemented with	Journal of Cells Tissues Organs	DOI: 10.1159/000515946, July 2021.	



S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
		Gelatin for Corneal Tissue Engineering			
16	Sahi, Ajay Kumar, Pooja Verma, Neelima Varshney, Shravanya Gundu , and Sanjeev Kumar Mahto	Revisiting Methodologies for In Vitro Preparations of Advanced Glycation End Products.".	Applied Biochemistry and Biotechnology	(2022): 1-25	
17	Punithavathi, M., S., Gundu , Sajith, S., Babu, M., Dubey, S., Ahemad, S.,	Studies On Nanomaterials And Their Applications	Journal of Maharaja Sayajirao university of Baroda	(2022)	
18	Gundu, Shravanya , Varshney, N., Sahi, A. K., & Mahto, S. K	Recent developments of biomaterial scaffolds and regenerative approaches for craniomaxillofacial bone tissue engineering.	Journal of Polymer Research	29(3), 1-23. (2022)	
19	Yashwanth Vyza, Suman Dabbu, Malini Mudigonda	Spectral Power based Index using Wavelet Analysis of EEG for Drowsiness Detection,	International Journal of Computer Applications	Volume 183 - No.46, January 2022	
20	Dabbu Suman , Ram Reddy B, Bhanu Prasad Marri	Cardio respiratory coupling: A potential biomarker for the early detection of respiratory distress in COVID-19 affected patients	International Journal of Scientific & Engineering Research	Volume 12, Issue 12, December-2021.	
21	Dheeraj K, Shreeja B, Harish Kuchulakanti	A Review on Biomaterials Based Biosensors for Bilirubin Detection	Advances in Sustainability sci. & technology	978-981-16-4320-0, 508587_1_En, (Chapter 3)	
22	Ram, A.V., Kuchulakanti, H. , Raj, T.S.	Brain Tumor Detection and Classification Using Transfer	Computational Vision and Bio-Inspired	https://doi.org/10.1007/978-981-16-9573-5_36 (2022)	



S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
		Learning Technique.	Computing. Advances in Intelligent Systems and Computing, vol 1420. Springer, Singapore.		

11. List of Publications in International Conference by Faculty:

S.No.	Faculty Name	Paper Title	Conference Name and address	Volume No. & Year, Date
1	Ushasri, Dr. M. Malini , S. Sreeja and K. Meghana	Extraction of Morphological, Time domain and Non-linear Features of FHR Signals	2022 First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)	2022, pp. 1-5, doi: 10.1109/ICEEICT53079.2022.9768509
2	B Sai Lalitha, Dr. M Malini , Mahendran Botlaguntala	Effect of Chemoradiation on Haematological Parameters In Cervical Cancer	2nd International Conference on Computational and Bio Engineering	4th & 5th December 2020
3	A. Ushasri, Dr. M. Malini , P. Apurvasri	Digitization and Analysis of Cardiotocography Records	IEEE HYDCON	To be held in September, 2020


List of Books / chapters/Proceedings Published by Faculty during 2017-2022 (5 years)

S.No.	Faculty Name	Title of book or chapter	Publisher Name	Year of Pub
1	Dabbu Suman Mudigonda Malini Ram Reddy B	Drowsiness detection by the dynamics of oculomotor system	LAP LAMBERT Academic Publishing, November, 2022.	2022
2	Tadesse Waktola Gamessa, Dabbu Suman, Zerihun Ketema Tadesse.	Blood glucose monitoring techniques: Recent advances, challenges and future perspectives	LAP LAMBERT Academic Publishing (March 7, 2019)	2019
3	Ms. B. Sailalitha, Dr. M. Malini	Study on Gene Alterations in Cervical Cancer using computational Genomics tools	Advanced Machine Learning approaches in Cancer Prognosis, Springer,	2021
4	B Sai Lalitha, M Venkateswara Rao, Dr M Malini , Mounica Sravani,	Gene Alterations in Cervical cancer through Computational genomics	Advance Machine Learning Approaches in Cancer Prognosis: Challenges and Applications, Intelligent Systems Reference Library, Springer, ISSN: 1868-4394 book chapter series (Accepted for publication)	2020
5	B Sai Lalitha, M Venkateswara Rao, Dr. M Malini	Review on Regulation of Heat Shock Protein 70 During Radiotherapy in	Learning and Analytics in Intelligent Systems, Vol 16, S Jyothi et al (Eds): Advances in Computational and Bio-Engineering, 978-3-030-	2020



		Cancer Patients	46942-9, 491311_1 En, (21)	
6	Dhananjay Budaraju, M. Srinivas, D. Suman, M. Malini	Fractal Dimension of Fundoscopic Retinal Images for Diagnosing of Diabetic Retinopathy	Advances in Decision Sciences, Image Processing, Security and Computer Vision, pp.23-30	2020
7	Chandana Belly, Sai PoojithaB, Usha Rani K, Harish Kuchulakanti	A Review on methods of treatment for Diabetic Foot Ulcer	Advances in Decision Sciences, Image Processing, Security and Computer vision Learning and Analytics in Intelligent Systems book series (LAIS, volume 3) pp 1-9, DOI:10.1007/978-3-030-24322-7_11	2020
8	Anitha C, Jaya Gayatri C, Ravalika N, Harish Kuchulakanti	IoT aided non-invasive NIR blood glucose monitoring device	Advances in Decision Sciences, Image Processing, Security and Computer vision Learning and Analytics in Intelligent Systems book series (LAIS, volume 3) ,DOI:10.1007/978-3-030-24322-7_11	2020
9	Harish Kuchulakanti , Chandrasekhar Paidimarry	Early Stage Squamous Cell Lung Cancer detection	Advances in Decision Sciences, Image Processing, Security and Computer vision Learning and Analytics in Intelligent Systems book series (LAIS, volume 3) pp 1-9, DOI:10.1007/978-3-030-24322-7_11	2020


Guest Lecturers, Key Note Lectures delivered, and Session Chairby Faculty in other institutes, industry, platforms:

S.No.	Faculty Name	Details of Lecture	Name of Organization	Date
1	Dr. D. Suman	Neuro Imaging techniques for assessment of Voice, Language, Speech and Hearing Disorders	Aliyavar jung national institute of speech and hearing disabilities (DIVYANGJAN), Govt of India.	05/02/2022
2	Dr. D. Suman	Nuclear Magnetic Resonance and its applications	Institute of Genetics, Osmania University, Begumpet	31/12/2021, & 4/1/2022.
3	Prof. M. Malini	Latest trends in Healthcare technologies	IEEE SPS Summer School on Internet of Things for Biomedical and Healthcare Applications organized by VNR VJIT	28th December 2020
4	Dr. D. Suman	Telemedicine in Healthcare	Department of BME, Karpaga Vinayaga College of Engineering and Technology	21 st December, 2020
5	Dr. D. Suman	Introduction to Tele Technology in Speech & Hearing Rehabilitation	Ali Yavar Jung National institute of Speech and Hearing Disabilities	23 rd December, 2020
6	Dr. D. Suman	Introduction to Transducers and Signal Acquisition techniques	Ali Yavar Jung National institute of Speech and Hearing Disabilities	29th October 2020




Workshops / Seminars / Trainings / Courses attended by Faculty or students (both offline, online) :

S.No	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
1	Ms. G. Shravanya	Workshop on 3D Printing and 3D Bio-Printing	NIPER Hyderabad and Avay Bioscience	23 rd and 24 th September, 2021	
2	Ms. G. Shravanya	FDP on Recent trends in Biomedical and Biomechanical Engineering: An interdisciplinary approach	Online -NIT Warangal	10 th September, 2021 to 14 th September, 2021.	
3	Prof. M. Malini and Ms. B. Gayathri	Five Day Online Short Term Course under the TIH platform on “Deep Learning-Based Speech Processing Technique for Smart Health and Education System-Concept, Recent Trends, and Key Challenges	Indian Institute of Technology (IIT) Patna (Online)	20 th September – 24 th September 2021	
4	Mr. M. Srinivas and Ms. G. Shravanya	one week FDP on "AI & ML using Python	E & ICT academy, NIT Warangal at University College of Engg., OU during	13 th - 18 th December, 2021	
5	Ms. G.	One week faculty program on	Vardaman College of	Feb 7 th to	



	Shravanya	<i>Recent Trends On Smart Materials And Their Applications</i>	Engineering, Hyderabad	11 th , 2022	
6	Prof. M. Malini	Six day short term course on Data Analysis Using Statistical Learning Techniques	Department of Mathematics, IIT Madras	21-03-22 to 26-03-22	
7	Dr. D. Suman, B. Gayathri and K. Harish	40 hours online Program on “Medical Image Processing”	e Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, PDPM IITDM Jabalpur and NIT Warangal	August 22 – September 2, 2022	
8	Third-year students K. Revanth, Anantha Sai, M. Ruchita, T Jaswanth, and Abhiram	2nd Indo-Norway Workshop on Smart Sensing, Communication and Machine Learning for Autonomous and Cyber-Physical Systems (IN-SSCOM-22) workshop	University of Agder, Norway, and Indian Institute of Technology, Hyderabad	October 14 - October 16, 2022	
9	Mr. K. Harish	TEQIP III-Online Faculty Training on ‘Artificial Intelligence and Machine Learning’	IIT Kanpur (Online)	14 th – 24 th June 2021	TEQIP III
10	Mr.K.E.Ch. Vidyasagar	One-week Online FDP Workshop on Recent Advancements in Robotics and Automation	Department of Robotics Engg., Karunya Institute of Technology and Sciences (Online)	09-03-2021 to 13-03-2021.	





11	Dr. M. Malini	Indian Medical Electronics Industry - Challenges and way forward	Online	4th Feb, 2021	
12	Mr. K. Harish	Machine Learning	R.M.K College of Engineering and Technology (Online)	07 th Dec, 2020 to 11 th Dec, 2020	AICTE Training And Learning (ATAL) Academy online
13	Dr. D. Suman	Advanced Optimization techniques and hands-on with MATLAB/SCILAB	Electronics and ICT academics	13-24 July, 2020.	
14	Prof. M. Malini	Know your Anaesthesia machine	Drager	14 th August 2020.	

Awards/Best Paper award to the Faculty

Faculty	Award	Details/Date
Mr. K.E.C.H. Vidyasagar	Vice-chancellors award for Research Excellence, Osmania University	3rd Jan, 2022
Dr. D. Suman	Best Paper Award	For paper entitled "A Time-Efficient Symmetric Key Encryption Technique for ECG Waveforms" in the IFIP International Conference on Security and Data Privacy (ICS DP 2022) organized by the Department of Computer Science and Engineering, Sri Sivasubramaniya Nadar College of Engineering, held on December 14-15, 2022.

15. Guest Lecturers/ Key Note Lectures/Workshops / Seminars / Trainings / Courses organized by department/college (both offline, online) :

- Dr. Thota Ganesh, Asso. Prof, Emory University delivered a guest lecture on Career and Research opportunities in Biomedical Engineering on 29th November 2022 in the department of BME, UCEOU.
- Mr. Mrutunjay Jena, Scientist G, Head – Accreditation and Training, AMTZ delivered a guest lecture on the Role of Standards, Calibrations, Accreditations & Regulations in the Biomedical Engineering Sector in the department on 15th November 2022.
- Department in association with IEEE OUCE EMB Society Chapter organized a talk on Master's in Germany by Mr. Guru Charan Das, (Alumnus of Department of Biomedical Engineering, UCE, OU) Project Engineer at Stockert GmbH, Germany on 4th December 2022 (online).
- Department in association with IEEE OUCE EMBS organized a interactive session on Careers in Biomedical Engineering by Mr. Vinay Korlepara (Alumnus of Biomedical Engineering, UCE, OU) Program manager in Philips with 17+ years of experience on 26th November 2022 (online).
- A two-day workshop on Hands-on Training on Critical Care Equipment in association with IEEE OUCE EMBS Student Chapter is organized in the department on 7th & 8th July 2022.
- Guest lecture series on MR Imaging by Dr. Uday B. Krishnamurthy, Senior Scientist & Collaborations Manager, Seimens Healthineers is organized by the department as part of the learning from Industry experts program from 12th - 15th July 2022.
- Mr. K. Harish conducted Student Training on Future Skill technologies through online mode on AI & ML during 5th August-4th September 2021.
- A webinar on "Next Generation Nanopore Sensors For DNA Sequencing" was held on 19th May, 2020. The speaker was Dr.Aurojyothi Das, PhD student at KU Leuven/IMEC, Belgium.
- A webinar on "Organs On Chip" by Dr Raghutham Ramesha, PhD student at RWTH Aachen, Germany was held on 22nd May, 2020.
- A webinar on " Biomedical Electronics, Endless Possibilities" by Mr Rishab Nitin Nagarkar, analog design engineer at caeleste, Belgium was held on 25th May 2020.
- A webinar by Mr Deepsundar Sahoo, graduate student at UT Arlington on "The Role Of Biomedical Engineering For Shaping The Future Of Medication" was held on 30th May 2020.

- A webinar on "MRIs in Space" by Ms Pallavi Bohidar, PhD student at University of Saskatchewan, Canada was held on 2nd June 2020.

Student Achievements (2020-22)

S.No.	Student Name	Details of Award/sports/ Higher Studies / Off Campus Jobs /GRE/CAT/GATE Score	Month/Year
1	Harshiniyuktha,	50 th Rank inGATE,BME	2021
2	Kezia Pearl	64 th Rank in GATE,BME	2021
3	Chiatanyavardhini	275 th Rank in GATE,BME	2021
4	Sreeja	26th Rank in GATE BME	2022
5	Sai teja	34th Rank in GATE BME	2022

- Final year student Pavani Thadem presented a paper titled BCI-based home hardware automation system at the 36th Annual meeting of the Society for Neurochemistry India (SNCI) and International Conference on One Health and Translational Research in Neurosciences jointly organized by Dr. G.M. Taori Central India Institute of Medical Sciences, Nagpur and IIIT Nagpur from 10-12 November 2022.
- Ms. Kona Divya Rani, a third-year BE BME student participated in the 1st South Zone National Air Gun Championship-2022 held at Karur, Tamil Nadu, and won the gold medal. She has participated in the "Air Gun Association of Telangana" representing Telangana and won a Gold medal in the Team category.
- Ms. K. Divya Rani won gold medal in 2nd All India crossbow shooting championship in November 2022.
- Ms. K. Divya rani won the silver medal in shooting in 2nd sansad khel spardha held in Agra in January 2023.
- Third-year student Anantha Sai has won an II prize in the paper presentation titled Early Diagnosis for Prenatal Asphyxia using Deep Learning in a National level technical symposium, Promethean 2K22 held during 12-13 October 2022 in BVRIT, Narsapur.

LIBRARY FACILITIES

The Department Seminar Library has the following:

S.No	Details	Quantity
1	Text Books	3151
2	Ph.D. Thesis	06
3	ME Project reports	120
4	B.E Project reports	530
5	IAP Reports	120
6	Lecture Notes	15

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.



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



Anaesthesia machine



InTuVition Ophthalmoscope



AIMED Ventilator



Electronics Engineering Lab



Computer Programming Lab



Electronics Engineering Lab



Audiometer



Operational Microscope



X-Ray unit for Demonstration



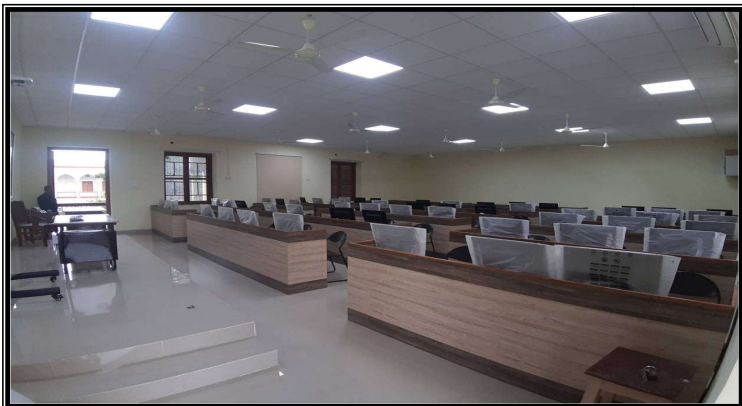
Biodigital Microscope



Electroporesis unit

DEPARTMENT OF CIVIL ENGINEERING

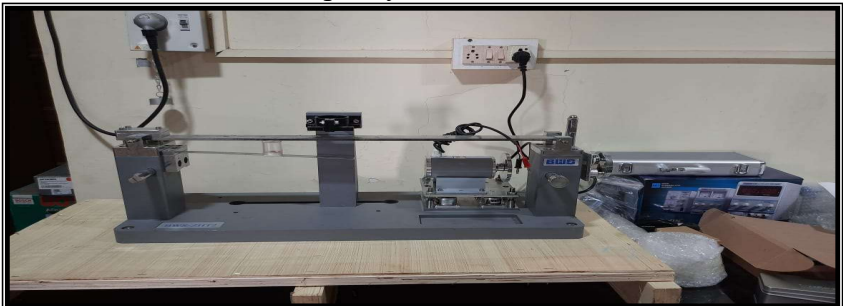


**KAPLAN TURBINE****TYPICAL COMPRESSION TESTING MACHINE (CTM) USED FOR
CBR / TRIAXIAL COMPRESSION TESTS****50 COMPUTERS - NEW AUTOCAD LAB**





Compression Testing Machine
Capacity: 5000 KN



Vibration Comprehensive Experimental Teaching System



Concrete Pan Mixer, Capacity: 40 L,

**CREEP TEST RIG****LINEAR VARIABLE
DISPLACEMENT
TRANSDUCER (LVDT)****DATA LOGGER**

Department of Civil Engineering

Tel: 040-27097125

Email-id: headcivil29@gmail.com

1. Profile:

The 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 program 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, it was 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 programs are offered in the field of Structural Engineering, Geotechnical Engineering, Water Resources Engineering and Transportation Engineering. The Department has doctoral programs as well, and has over 25 candidates enrolled for their Ph D program. 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 was, 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 in Water Resources. 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, Geotextiles, Seismic resistant structures, Bridges and Computer applications.



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

2. Faculty Details

Faculty member		Areas of Teaching and Research
PROFESSOR AND HEAD		
	Dr. M. Anjaneya Prasad B. E. (OU), M. Tech (REC-S), PhD(IITM), MISTE, MIE	Hydraulics, Water Management Systems, Fuzzy logic applications to water resources, Optimization application in water resources
PROFESSORS		
	Dr. Kumar Molugaram, B. E. (OU), M. Tech(JNTU), Ph. D(IITB), FIE, MISTE, MIRC, MIIIBE, 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 Uni), Ph. D. (IIT B) MISTE, MISH, Dean, Faculty of Engineering, OU	Computational Fluid Dynamics, Groundwater flow modeling, Free surface flows, Water management, Rural and urban water supply systems, and Environmental Hydraulics

 <p>Dr. V. Bhikshma B.E.(OU), M.Tech (JNTU), Ph.D(O.U) Life Member: ICI, ACCE, FIE</p>	<p>Structural analysis and design, Concrete composites, Bridge engineering, Reinforced cement concrete, Prestressed concrete, Concrete technology, Earth quake engineering, Repair and rehabilitation of structures, innovative materials, special concretes, Ultra High strength Concrete, Geo Polymer concrete, Recycled aggregate concrete, Bacteria Concrete, self curing concrete etc.,</p>
 <p>Dr. M. Gopal Naik, B.E. (OU), M.E. (OU), Ph.D. (IIT-B), FIE, MASCE, IWRS, ISRS, ISH, ISG</p>	<p>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</p>
	<p>Dr. P. Raja Sekhar B.E.(OU), M.E.(OU), Ph.D (IITB)</p> <p>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)</p>
	<p>Dr. K. L. Radhika B. Tech (JNTU), M. E. (OU), Ph.D (NITW)</p> <p>Structural analysis and design, and Concrete Technology</p>
	<p>Dr. M. V. S. Sreedhar B.Tech (JNTU), M. Tech (IITB), Ph.D(OU)</p> <p>Geotechnical Engineering, Ground Improvement techniques, Geo-Synthetics, Soil dynamics and machine foundations, Geotechnical investigations.</p>
	<p>Dr. K. Shasikanth B. Tech (SVU) ME- CE (UVCE-B), M.Tech- CS (JNTU)</p> <p>Surface water hydrology, Mathematical modeling to water resources, ANN and GIS applications.</p>

	Dr. D. Rupesh Kumar B. Tech (NU), M.Tech (JNTU), Ph.D (JNTU).	Design of RCC & steel structures, Finite Element Analysis, Earthquake resistant design of structures, Design of bridges, Structural shape optimization
	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.
	Dr. D. Annapurna B. Tech (SKU), ME(OU), Ph.D (OU)	Structural analysis and design, Computer aided analysis & design of structures.
ASSOCIATE PROFESSORS		
	Dr. (Ms.) S. V. S. N. D. L. Prasanna BE(OU), ME(OU), Ph.D (OU)	Computational Fluid Dynamics, Drainage Engineering, Irrigation Water Management
ASSISTANT PROFESSORS		
	Mrs. P. Anuradha B. Tech (JNTU), M. Tech (JNTU)	Structural analysis and Earthquake Analysis
	Mr. R. Rajender B.E (OU), M.E (IISc) (on QIP)	Design of Machine Foundations, Structural Dynamics, Finite Element Methods, Structural Analysis and Design, Earthquake Resistant Design
	Dr. Harish Gupta BSc (MDS), MSc(Geology), PhD (IIT Roorkee), (UGC-FRP)	Earth Surface Process and Climate Moderation; Surface Hydrology, Global Bio-geochemical Cycles and Environmental Pollutants in rivers; Urban Water Management

ASSISTANT PROFESSORS (CONTRACT)		
	Mrs. A. Usha Sri B.E (OU), M.E (IITD)	Structural analysis and Structural Dynamics
	Mr. L. Ajay Kumar B.E (OU), M.E (OU)	Design of RC structures, Bridge engineering, Repair and rehabilitation of structures ,Concrete Technology,

3. 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.

4. Major Equipment available in the Department:

- ❖ Universal Testing Machines of 1000 kN and 2000 kN capacity, Torsion, Shear, Tension, Compression and Flexural Testing Equipments, 1000kN & 150 kN loading frames, Impact Testing Machine, Vibration monitoring systems, Large Scale Direct Shear Box Testing Unit, Compression Testing machine 5000 kN, 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: Procurement

- 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: Procurement

The following equipments were procured, installed and being used

- i. 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
- iii. Asphalt Mixer (5 liter capacity) and Upgradation of existing load test facility in Geo-Technical Engineering Lab

5. 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

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. Kumar	A study on curved steep pumps (CSH) and its evaluation of environmental impact for Indian conditions	38.50 Lakhs	DST-SERB, Govt. of India. (2019)
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)
Prof. M. Gopal Naik & Dr. Harish Gupta	Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad (April 2019)	74.38 lakhs	SPARC-MHRD
Prof. M. Gopal Naik	Science and Engineering Research Board (SERB)	40.13 lakhs	Department of Science and Technology
Prof. M. V. S. Sreedhar	Laboratory investigations on the Uplift Capacity of Shallow Foundations	3.20 lakhs (One year) (In progress)	Industry – M/s RAMBOLL Engineers, Hyderabad
Prof K Shashikanth	Impacts of climate change on Indian rainfall and Temperature distribution in India	1.50 Lakhs	UGC MRP (completed)
Dr. Harish Gupta	MOOCs on Water Resources and Watershed Management (Co-PI)	13.50 lakhs (2019)	UGC



9. Consultancy Projects:

Consultancy Details:

2021-22			
Structural Engineering (SE)	Proof Checking and Third party Quality Check	Government & Private Organisation	4,36,19,777.00
Water Resources Engineering (WRE)	Vetting of Sewage Treatment plants (STPs) under GHMC region	Different Agencies	4,00,360.00
Geotechnical Engineering (GTE)	Geotechnical testing & Recommendations	Government & Private Organisation	2,88,596.00
Transportation Engineering (TE)	Third party QA/QC works of HMRL & Routine Lab testing works	Government & Private Organisation	19,15,167.00



10. List of Publications in International Journals by Faculty:

2020-2021					
Faculty Name	Paper Title	Journal Name	ISSN No.	Volume No. & Year	IF/H - Index/Scopus Index
M. Gopal Naik, Seyed Ali Mousavi Dehmourdi and Ravande Kishore (2021).	Modelling A Multi-Criteria Decision Support System for Prequalification Assessment of Construction Contractors Using Critic and Edas Models.	Operational Research in Engineering Sciences: Theory and Applications	ISSN: 2620-1607	Vol. 4 (2), Pp.79-101	
Seyed Ali Mousavi Dehmourdi, M. Gopal Naik and Ravande Kishore (2021)	"An Investigation on Construction Crisis Framework Based on the CRITIC and WASPAS Methods, a Case Study; Khuzestan province (Iran).	International Journal of Engineering and Advanced Technology (IJEAT)	ISSN: 2249-8958	Vol. 10 (4), Pp.89-100	
Hiteshri Shastri, Kaustubh Salvi, Shashikanth. K , S Misra (Book Chapter)	A Review of Multicriteria decision making methods with reference to Water Resources and Climate Science Applications.	Springer Nature Publications	978-3-030-66682-8 ISBN 978-3-030-66683-5 (eBook)	Page 3-22 https://doi.org/10.1007/978-3-030-66683-5	Hiteshri Shastri, Kaustubh Salvi, Shashikanth. K , S Misra (Book Chapter)
Prof.K.Shashik	Intricate Flood Flow	ISH Journal of Hydraulic		https://www.resurchify	h-Index



anth	Advancement Modelling In The Krishna River Sub Basin, India	Engineering: Taylor & Francis (Impact factor: 2.00) DOI: 10.1080/09715010.2021.2019134. ISSN: 09715010, 21643040 (UK)		.com/impact/details/21100274232	19
	Risk Assessment Of Cost Overrun Using Fuzzy Logic Model	Materials Today: Proceedings (Elsevier) ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2021.12.415 Volume 62, Part 4,		https://www.resurchify.com/impact/details/21100370037	h-Index 56
	Sustainable Development Of Initiatives Through ISO 9001: 2015	International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies ISSN 2228-9860 Volume 12, Issue 8			
Mrs.P.Anuradha	Strain investigation of infill frames using FEA package MSC Nastran	Advances in Engineering Softwares(Elsevier)	102975	154 30 jan(2021)	
Dr. Harish Gupta	Role of climate and topography on hydrological characteristics of the Bharathapuzha basin in the tectonically quiescent Western Ghats, India	Journal of the Geological Society of India (Springer) (Impact factor: 1.459)		V. 97 (2021)	
	Portable and Autonomous Device for Real-time Colorimetric Detection:	Sensors and Actuators A: Physical (Elsevier) (Impact factor: 3.407)		V. 330 (2021)	





	Validation for Phosphorous and Nitrite Detection				
	The suitability of surface waters from small west-flowing rivers for drinking, irrigation, and aquatic life from a global biodiversity hotspot (Western Ghats, India)	Environmental Science and Pollution Research (Springer) (Impact factor: 4.223).		V. 28 (2021)	
	Climatic and tectonic control on the Bengal Fan sedimentation since the Pliocene.	Geochemistry, Geophysics, Geosystems (AGU) (Impact factor: 3.624)		V. 22(3) (2021)	
	Nutrient retention behind a tropical mega-dam: a case study of the Sardar Sarovar Dam, India	SN Applied Sciences (Springer)		V. 3(1) (2021)	
	Export of particulate organic carbon by the mountainous tropical rivers of Western Ghats, India: Variations and controls	Science of The Total Environment (Elsevier) (Impact factor: 7.963)		V. 751 (2021)	



11. List of Publications in National Journals by Faculty:

Faculty Name	Title	Publisher Name	ISBN No.	Pages	Year of Publication
Dr. Harish Gupta	A Comprehensive Review on Urban Floods and its Modeling Techniques in Time Series Forecasting, (Chapter 10) Edited By Dinesh C. S. Bisht, Mangey Ram	CRC Press (Taylor & Francis Group)	9781003102281	29	2021
	Artificial Neural Networks (ANNs) and their Application in Soil and Water Resources Engineering in Time Series Forecasting (chapter 12) Edited By Dinesh C. S. Bisht, Mangey Ram	CRC Press (Taylor & Francis Group)	9781003102281	36	2021





12. List of Books / Proceedings Published by Faculty:

Faculty Name	Title	Publisher Name	Pages	Year of Publication
Aadhi Naresh, Ravali Bharadwaj, M. Gopal Naik, Harish Gupta, M. Mohan Raju and Dinesh. C. S. Bisht	“A Comprehensive Review on Urban Floods and its Modeling Techniques”, Recent Advances in Time Series Forecasting, Vol. 1, September 2020.	Routledge, Taylor and Francis Group, CRC Press.	151-180,	2021
M. Mohan Raju, Dinesh. C. S. Bisht, A. Naresh, Harish Gupta, M. Gopal Naik	“Artificial Neural Networks (ANNs) and their Application in Soil and Water Resource	Recent Advances in Time series Forecasting, CRC Press	191-227	2021
Prof. D. Rupesh Kumar	93 online vidoes for 4 BE & ME subjects & 2 labs	YouTube	-	-
Dr. Harish Gupta	A Comprehensive Review on Urban Floods and its Modeling Techniques in Time Series Forecasting, (Chapter 10) Edited By Dinesh C. S. Bisht, Mangey Ram	CRC Press (Taylor & Francis Group)	29	2021
	Artificial Neural Networks (ANNs) and their Application in Soil and Water Resources Engineering in Time Series Forecasting (chapter 12) Edited By Dinesh C. S. Bisht, Mangey Ram	CRC Press (Taylor & Francis Group)	36	2021



13. Key Note Lectures and Session Chair by Faculty:

Faculty Name	Details of Lecture	Conference Name	Name of the Organization	Dates
Prof. M. Kumar	Session chair	8 th international conference on transportation systems engineering and management (CTSEM 2021)	NIT Calicut, Kerala	26 Aug 2021
Prof. M. Kumar	Session chair	1 st International conference on sustainable approach for resilient infrastructure	CBIT, Hyderabad	26-27 June 2021
Prof.V.Bhikshma	In lecture on Quality control in concrete usage of PSC/GGBS in concrete	NDT applications in Civil Engineering for Zonal	JSW cements limited	27.05.2021
Dr.D.Annapurna	“Geopolymer concrete- A potential material to replace conventional concrete”	2-days National conference on “Innovations and Sustainable solutions in Engineering and Technology” with ISBN NO.978-93-5457-829-8	Nawab Shah Alam Khan college of Engineering and Technology, New Malakpet, Hyderabad.	9 th – 10 th , July- 2021





14. Guest Lecturers delivered by Faculty:

Faculty Name	Details of Lecture	Name of Organization	Date
Prof M.A.Prasad	AICTE Sponsored One week STTP (online) on “Applications of Neuro-Fuzzy Techniques in Civil Engineering” during 2nd to 7th August, 2021 Soft Computing Models for Water Resources Applications	Maturi Venkata Subba Rao (MVSR) Engineering College Nadargul, Hyderabad – 501 510 Department of Civil Engineering	07.08.2021 (Saturday)
Prof. V.Bhikshma	Behaviour of steel, concrete, wood, glass in fire conditions	Telangana state Disaster Response and fire services, Hyderabad.	20.07.2021
Prof. K Shashikanth	One day Webinar on Fundamentals of Fluid Mechanics	Guru Nanak Institutions Technical Campus, Hyderabad	03.05.2021
Prof. D. Rupesh Kumar	Delivered one lecture on “Finite Element Method” at 3-day Faculty Development Program on Advances in Finite Element Method	Department of Civil & Mechanical Engineering, Vidya Jyothi Institute of Technology, Chilkur Road, Hyderabad	18-20 February 2021
Prof.. D. Rajashekar Reddy	Principles of pavement Design	Faculty Development Program organised by NREC Hyderabad	14.05.20
Prof. R. Srinivasa	AICTE sponsored STTP on Recycling of	Indo Global College of	23-7-2021



Kumar	Materials in Highway Construction, Title of Lecture "Utilisation of Flyash and Recycling of Reclaimed Asphalt Material in Highway Construction".	Engineering, Punjab	
	AICTE sponsored STTP on Recycling of Materials in Highway Construction, Title of Lecture: "Introduction to Recycling of Waste Materials in Pavements and Utilization of Flyash", Organised by Indo	Global College of Engineering, Punjab	26-8-2021
Dr. (Ms.) Prasanna	Slope Stability Analysis Using ANSYS	Certification program on “ ANSYS software and its application in Geotechnical domain ” Malla Reddy College of Engineering (A) in association with IEI Student Chapter, Mining Engineers Association of India, Hyderabad Chapter, Department of Civil Engineering, OUCE, Hyderabad	14 th June – 19 th June, 2021



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

Faculty Name	Title	Venue	Dates	Sponsored by
Prof K.L.Radhika	ATAL Online Faculty Development Programme. "FRACTURE MECHANICS IN CONCRETE STRUCTURE"	University College Of Engineering,Osmania University, Telangana	06/12/2021 to 10/12/2021	All India Council For Technical Education
Prof D.Annapurna	ATAL Online Faculty Development Programme.	University College Of Engineering,Osmania University, Telangana		All India Council For Technical Education



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

Faculty Name	Title	Venue	Dates	Sponsored by
Mrs.P.Anuradha	Structural response under extreme climate condition	thiagarajar college of engineering Maduria	10-14 may 2021	Structural response under extreme climate condition
Dr. Harish Gupta	"Engineering Geology and Landslide Studies"	E-Training	May 17 to 22, 2021.	RTD, SR, GSITI, Hyderabad
Mr.L.Ajay Kumar	participated in a on "Retrofitting of Structural Elements Using Wrapping Techniques")	webinar	10-06-2021	Organized by Department of Civil Engineering, Lakireddy Bali Reddy College of Engineering (Autonomous





17. State and National Level Recognations by Faculty:

Faculty Name	Position / Designation	Name of the Organization
Prof. M. Kumar	Member, Executive Committee (EC), Osmania University	Department of Higher Education, Govt. of. Telangana
Prof. M. Kumar	Committee Member, CET Committee, EAMCET-2020	<i>Telangana State Council of Higher Education (TSCHE)</i> , Govt. of. Telangana
Prof. M. Kumar	Member – Unified Metropolitan Transportation Authority (UMTA)	HMDA, Hyderabad, Govt. of. Telangana
Prof. M. Kumar	Member, State Level Committee	Principal Secretary, PR & RD, under the chairmanship of Chief Secretary, Govt. of. Telangana
Prof. M. Kumar	Member – Road Safety Committee	Ministry of Road Transport, Govt. of. Telangana
Prof. M. Kumar	Member, Performance Evaluation Committee (PEC), NRIDA	NRIDA, MoRD, Govt. of. India
Prof. M. Kumar	STA Co-ordinator for Telangana State, PMGSY – Govt. of India	NRIDA, Ministry of Rural Roads, New Delhi, Govt. of India
Prof. M. Kumar	Co-ordinator, National Highway Authority (NHAI)	Ministry of Shipping & Road Transports & Highways (MoSRTTH), NHAI, GoI,

**18. Achievements /Awards of Faculty**

Faculty Name	Achievements / Awards
Prof. M. Gopal Naik	Telangana State Best Teacher Award- 2020 State awarded to Meritorious teacher by the Govt. of Telangana on Spember 5,2021.
	Engineer of the Year award-2020 Awarded by Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana on the eve of 160th birthday celebration Bharat Ratna Sir Mokshagundam Vishveshvaraya on September,2021.
Dr. M.V.S.Sreedhar	Appointed as an Expert Member in Technical Committee constituted by Govt.of Telangana on Sri Komaravelly Mallanna Sagar Reservoir vide GO Rt. No. 49, dt. 28.01.2021
Dr. Harish Gupta	Course Coordinator of SWAYAM MOOCs on Water Resources and Watershed Management https://onlinecourses.swayam2.ac.in/cec21_ge14/preview



19. 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.

20. NIRMAN 2020

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).

Department of Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Profile:

The decade of the 80s had seen a phenomenal growth in the field of Computer Science & Engineering in India. In tune with the global development, Osmania University 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 postgraduate levels. The department has well qualified staff, Infrastructure and state-of- the- art equipment.

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



Academic Programmes:

Programme	Full-Time/ Part-Time	Year of Starting	Duration	Present Intake
B.E (CSE)	Full-Time	1985	4 Years	60
B.E(AI & ML)	Full-Time	2021	4 Years	60
M.Tech (CSE)	Full-Time	1981	2 Years	25
MCA	Full-Time	1990	2Years	60
M.Tech (CSE)	Part-Time	1991	3Years	30
M.Tech (Parallel and Distributed Systems)	Full-Time	2007	2 years	15
M.Tech (Artificial Intelligence & Machine Learning)	Full-Time	2020	2 years	18
Ph.D (CSE/IT)	Full-Time/ Part-Time	1987		

Faculty Profile:

Faculty		Specialization
Head of the Department		
	Prof. K. Shyamala M.Tech, Ph.D.	Parallel Processing Applications, Cyber Security, Wireless Sensor Networks Embedded Systems, CAD algorithms, Technology Mapping algorithms for FPGAs
Professor		
	Prof. P.V. Sudha M.Tech, PhD	Cloud Computing, Large Scale ML, Software Project Management
Associate Professors		
	Dr. M. Venkat Dass M.Tech.	System Software, Discrete Mathematics
	Mr. S. Srinivas Rao M.Tech.	Computer Graphics, Text Mining
	Dr. L.K. Suresh Kumar, M.E.	Computer Networks, Network Security
Assistant Professors (Faculty of Informatics)		
	Dr. V.B. Narasimha M.Tech, Ph.D.	Computer Networks, Operation Research, Software Engineering.
	Dr. B. Sujatha M.Tech, Ph.D.	Operating Systems, Data Structures, DBMS, Web Programming, Natural Language Process

Faculty		Specialization
	Dr. M.A.Hameed M.Tech, Ph.D	Data Mining, Soft Computation, Big Data, Machine Learning, Data Science
	Mrs. E.Pragnavi M.Tech, (Ph.D)	Operating Systems, Embedded Systems, Data Communication and Computer Networks, Network Security
	Mrs.V.Sukanya, M.Tech, (Ph.D)	Data Structures, Mobile Computing
Assistant Professors (Contract)		
	Dr.I.Govardhan Rao M.Tech. PhD	Cloud Computing, Computer Graphics, C, Distributed Computing.
	Mr.M.Narendar Reddy, M.Tech.	Computer Programming, Networks, Mobile Computing
	Mr.K.Satyanarayana M.Tech.	Distributed Systems, Cloud Computing, Operating Systems, Software Engg.
	Mrs.A.Gayathri M.Tech.	Distributed Systems
	Mrs.K.Jaya M.C.A.	Database Management Systems, Web Programming, MIS

Faculty		Specialization
	Mrs.C.Vani M.Com.	Accounts and Finance Management, Economic Analysis, Operation Research, E-Commerce
	Mr.M.Thirupathi B.Tech.	Automata Applications, Compiler Design

Faculty Profile

Faculty	Specialization
Head of the Department	
Dr. K.Shyamala, M.Tech, Ph.D	Parallel Processing Applications, Cyber Security, Wireless Sensor Networks Embedded Systems, CAD algorithms, Technology Mapping algorithms for FPGAs
Professors	
Dr. K. Shyamala M. Tech, Ph.D	Parallel Processing Applications, Cyber Security, Wireless Sensor Networks, Embedded Systems, CAD algorithms, Technology Mapping Algorithms for FPGAs
Dr. P. V. Sudha M. Tech, Ph.D	Cloud Computing, Large Scale ML, Software Project Management
Associate Professors	
Dr. M. Venkat Dass M. Tech, Ph.D	System Software, Discrete Mathematics
Mr. S. SrinivasRao M. Tech	Computer Graphics, Text Mining
Dr. L. K. Suresh Kumar M.E, Ph.D	Computer Networks, Network Security
Assistant Professors	
Dr. V.B.Narasimha M.Tech, Ph.D	Computer Networks, Operation Research, Software Engineering
Dr. B.Sujatha M.Tech, Ph.D	Operating Systems, Data Structures, DBMS, Web Programming, Natural Language



	Processing
Dr. M.A.Hameed M.Tech, Ph.D	Data Mining, Soft Computation, Big Data, Machine Learning, Data Science
Mrs. E.Pragnavi M.Tech	Operating Systems, Embedded Systems, Data Communication and Computer Networks, Network Security
Mrs.V.Sukanya M.Tech	Data Structures, Mobile Computing
Assistant Professors (C)	
Dr.I.GovardhanRao M.Tech, Ph.D.	Cloud Computing, Computer Graphics, Information Security, Network Security, C
Mrs.A.Gayathri, M.Tech.	Distributed Systems
Mr.K.Satyanarayana M.Tech	Distributed Systems, Cloud Computing, Operating Systems, Software Engineering
Mr.M.Narendar Reddy M.Tech	Computer Programming, Networks, Mobile Computing
Mrs.K.Jaya, M.C.A.	Database Management Systems, Web Programming, MIS
Mrs.C.Vani, M.Com.	Accounts and Finance Management, Economic Analysis, Operation Research, E-Commerce

Other Assignments to Faculty:

Additional Responsibilities to Faculty

Administrative Officers (Department level, college level, university level)

S.No.	Faculty Name	Designation, Office Address	Department/ College/ University Level, Outside
1.	Prof. K.Shyamala	Director, Centre for Cyber Security and Cyber Law, OU	University Level
2.	Prof. P.V.Sudha	Dean, Faculty of Informatics, OU	University Level
		Director, Center for AI & ML, OU	University Level
		In-charge, Cloud Computing Research Lab, Dept. of CSE, UCE(A), OU	College Level
3.	Dr.M.Venkat Dass	Chairperson, BoS in IT, OU	College Level
4.	Dr.L.K.Suresh Kumar	Chairperson, BoS in CSE(U)	College Level
5.	Mr.S.Srinivasa Rao	Chairperson, BoS in CSE(A),	College

		OU	Level
6.	Dr.V.B.Narasimha	Joint Director for PGRRCDE, Osmania University	University Level
7.	Dr.B.Sujatha	Hostel Mess Warden, University Girls Hostel, OU	College Level

1. 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.

Infrastructure:

The computing resources that are available in the Department include 9 servers and 239 nodes connected on a high-speed LAN spread over seven labs. The following table lists the detailed information about the servers and their respective software. 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 a campus wide network of 1GB Ethernet. Each classroom is provided with LCD Projectors and all labs are provided with UPS backup.

Equipment (Hardware & Software)

S.No.	Configuration	Make / Model	Qty.	Operating System /Application Software
1	Intel Xeon E5-2420, @ 1.90 GHz Processor, 16GB RAM, 2x300GB 6G SAS HDD, SMART ARRAY with 1GB	HP Proliant DL380 GEN8	1	Windows 2012 Datacenter / VMware
2 & 3	Intel Xeon E5-2420, @ 1.90 GHz Processor, 16GB RAM, 3x300GB 6G SAS HDD, SMART ARRAY with 1GB	HP Proliant DL380 GEN8	2	Centos 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 ARRAY 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 ARRAY with 1GB	HP Proliant DL380 GEN8	1	Centos 6.9 / Oracle 12C
6	Intel Xeon E5-2640, @ 2.00 GHz Processor, 16GB RAM, 4x300GB 6G SAS HDD, SMART ARRAY 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	HP	2	Linux/Win 2012
8	Silicon Graphics Prism, Intel Itanium 2 CPUs 8 GB RAM, 240 GB HDD	Silicon Graphics	1	SGI Adv Linux with SGI ProPack
Laboratories				
9	Six Software Labs with 35 PCs in each lab & Server Room	HP, Dell, & Lenovo	194	Linux Mint/CentOS/Windows
10	Cloud Computing lab	CL17-ADV-A CL17-ADV-G-SSS-A VCS6-STD-A VCS6-STD-G-SSS-A	6	VMware vSphere
Software / Packages				
11	Linux, MSDN, Oracle 12c, Different Compilers (C, C++ and Java) and Rational Rose			
Hardware KITS				
12	Xilinx - SPARTAN.	6 FPGA boards		
13	Xilinx – VIRTEX	5 FPGA boards.		

Project TEQIP-III:

The department has benefited from the 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.

Library Facility:

The Department has Library containing about 7524 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.

S. No.	Details	Quantity
1.	Text Books	7524
2.	Ph.D. Thesis	37
3.	M. E. Project Reports	200
4.	B. E. Project Reports	125
5.	Old Bound Journals	200

Department Achievements:

1. Organized Five Day Online Faculty Development Program on “Cyber Security” Sponsored by AICTE Training and Learning (ATAL) Academy, in Association with Center for Cyber Security and Cyber Law, Osmania University, Hyderabad during 18th – 22nd January 2021.
2. Organized Five Day Online Faculty Development Program on “Data Science” Sponsored by AICTE Training and Learning (ATAL) Academy, during 21st – 25th February 2021.
3. Launched new M.Tech. (AI & ML) program with effect from the academic year 2020-21.
4. Centre for Cyber Security and Cyber Law (CCSCL) has been setup funded by RashtriyaUchchatarShikshaAbhiyan (RUSA) 2.0 to provide internship opportunities for CSE department UG/PG students.

5. Alumnus DeepikaNarkuti (2016), placed in Microsoft with package of Two Crore per Annum.

Placements:

2020-21

S. No.	No. of Companies	Package Offered (LPA)	No. of B.E Students Placed	No. of M.Tech Students Placed
1.	5	Above 16LPA	8	1
2.	8	Above 10LPA	28	8
3.	15	Above 7LPA	14	4
4.	20	Above 5LPA	17	10
5.	10	Below 5LPA	1	5

2020-21

S.No.	Company	Package Offered (LPA)	S.No.	Company	Package Offered (LPA)
1.	Amazon	38(80000PM Internship)	11	Optum	11.59
2.	A cesium	25	12	IBM	11.5
3.	Math works	20.45	13	MTX	10.4
4.	Hugo	18	14	Beautiful Code	10
5.	Oracle	17.25	15	Factset	9
6.	AMD	14.5	16	ZOHO	8
7.	Samsung	14.5	17	ZL Tech	8
8.	NCR	14	18	Deloitte	7.5
	Target	13.3	19	Magnaquest	7
	Salesforce	11.9	20	L&T	6.5

Student Achievements 2022-23

Hall Ticket Number	Name	Exam Qualified	Marks/ Score
1005-18-733003	Aman MujtabaJaved	GRE	322
1005-18-7330024	K Srutej	GRE	312
1005-18-7330050	Srikar Raghunath	GRE	318
1005-18-7330058	C.Rohit	IELTS	8.0 CGPL
1005-18-7330088	N Pooja Reddy	GRE	321

Ongoing Research Projects:

S. No.	Principal Investigator	Funding Agency	Title of the Project	Grant
1	Prof.K.Shyamala	SERB-DST (2018-2021).	Power and EnergyAware Secure RoutingProtocol in WirelessSensor Networks	26.39 Lakhs
2	Mr.L.K.SureshKumar	UGC	Secure Routing in Mobile Adhoc Networks	3.80 Lakhs
3.	Dr. V. B.Narsimha	UGC	Impact of MachineLearning and TermWeighting approaches on short documents forText Mining	1.4 lakhs
4.	Dr.B.Sujatha	UGC	FOL based IntelligentNatural LanguageInterface toKnowledgeBase.	2.1 Lakhs
5.	Mrs. E.Pragnavi	UGC	A Security Frameworkfor SaaS Services in Cloud using SQUARE methodology	1.9 Lakhs

**Research Publications during 2020-2021:**

Faculty	S.No.	Paper Published	Date & Year of Publish
Prof.K. Shyamala	1.	Design and Testbed Implementation of MAX LEACH Protocol Using SENSEnuts, IEEE International Conference- Bombay Section IBSSC -Organized by IIIT Gwalior	2021
	2.	Energy-Efficient Routing in WSN: IEEE International Conference on Technologies for Smart Green Connected Society, India	2022
	3.	Improving Network Lifetime in WSN's based on Maximum Residual Energy" proceedings in 2nd IEEE International Conference for Emerging Technology (INCET), India	13th -15th May 2021
	4.	MRI Image Based Relatable Pixel Extraction with Image Segmentation For Brain Tumor Cell Detection Using Deep Learning Model Smartgencon 2021 by IEEE Pune Section	2022
	5.	Detection of Black Hole Attack on MAX LEACH Protocol International Mobile and Embedded Technology Conference (MECON), India	2022
	6.	Test bed Implementation of Energy Efficient Load Balanced Ad-Hoc on Demand Multipath Distance Vector Routing Protocol In wireless Sensor Networks	2022
	7.	A Survey on Segmentation & Clustering Techniques to detect brain tumor for MRI , International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), India	2021
	8.	Chest CT Image Super Resolution Using Deep Learning Network Models , International Conference on Smart Generation Computing, Communication and Networking (SMART	2021



Faculty	S.No.	Paper Published	Date & Year of Publish
		GENCON), India	
Prof.P.V. Sudha	9.	A contemporary framework key based crypto method to enhance security in multi cloud ambience, International Conference on Computing ,Communication and intelligent Systems	2021
	10.	Security Enhancement in Cloud Environment Using Modified Key-based Crypto Method, Advances in Distributed Computing and Machine Learning: Proceedings of ICADCML 2022 427 (2022): 47	2022
	11.	An Extensive Survey of Deep Learning-Based Crop Yield Prediction Models for Precision Agriculture Proceedings of International conference on cognitive and intelligent computing 2022.	2022
Dr.B. Sujatha	12.	Natural language processing based text summarization using semantic analysis , Journal of harbin institute of technology	2021
	13.	Enhancing the web application firewalls in Advanced SQL injection attacks by using machine learning technique The international Journal of analysis and experimental model analysis(IJAEMA)	Feb 2022
	14.	Learning Technique an Approach to detect SQL Injection attack using CNN based techniques The journal of inter disciplinary cycle research	April 2022
	15.	Principle correlated features extraction using differential evolution for improved classification International conference on computing and communication networks	19th – 20th November





Faculty	S.No.	Paper Published	Date & Year of Publish
			2022
Dr.B. Sujatha	16.	Image forgery Detection system using CNN International conference on Intelligent computing and communication	18th-19th November 2022
	17.	Contemporary Adaptive Privacy-Preserving Approach for Big Datasets Using A Perturbation Based Clustering Model, Computer integrated manufacturing systems	2022

Conferences/Workshops Organized by the Department:

S.No	Event	Date
1.	A One Day Workshop on Research Article Preparation Using Latex Tool Coordinator :Dr B Sujatha	30th –June 2022
2.	Five Day Online FDP on "IOT with Edge Computing approved by ATAL Academy . Coordinator: Mrs. V.Sukanya	14th-18th Sept2021
3.	Five Day Online Faculty Development Program on "Cyber Security" Sponsored by the AICTE Training and Learning (ATAL) Academy in Association with Centre for Cyber Security and Cyber law, Osmania University, Hyderabad Coordinator: Dr K.Shyamala	18th - 22nd Jan 2021
4.	Five Day Online Faculty Development Program on "Data Science" Sponsored by the AICTE Training and Learning (ATAL) Academy , New Delhi Coordinator : Dr B Sujatha	21st - 25th Feb 2021
5.	A One day workshop on " Preventing the Risks of Plagiarism in Research publication" Coordinator :Dr B Sujatha	28 May 2022
6.	Two day online workshop on " Advance in Artificial Intelligence" Coordinators: Dr L K Suresh Kumar and Mr K.Satyanarayana	4-5 November'2022





S.No	Event	Date
7.	Five day online FDP on “Artificial Intelligence, Machine Learning and Deep learning Applications. Coordinator : Dr M A Hameed	27- 31 December 2022
8.	Five day online FDP on “Machine Learning and IOT Applications. Coordinator : Dr M A Hameed	24- 28 th Feb 2023
9.	Industrial Training in Data Science Using Python	01-July-2021 to 15-July-2021

Conferences/Workshops/Training Programmes Attended by Faculty:

Name	S.No.	Event	Conducted by	Date
Dr.B.Sujatha	1	Sensor Network IOT and Internet of every thing		17-22 May 2021



Guest Lectures, Keynote Lectures delivered by Faculty:

16. Department Activities:

1. Celebrated the Birth Anniversary of “Acharya Kothapally Jayashankar” on 6th Aug 2020.
2. The Department has organized “ATAL FDP on Cyber Security” on 18th - 22nd January 2021.
3. The Department has also Organized “ATAL FDP on Data Science”, during 21st - 25th February 2021.

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.



**Dept. Library****Cricket Champion Winning****Industrial Visit to Sensai Networks****Taksh Programme Presentation****Flag Hosting**

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
Phone No: 27098213, E –mail: ecedepartmentou@osmnaia.ac.in

1. About the Department

The Department of Electronics and 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.

In the span of five decades the Department has grown to a complement of 16 members of teaching staff and about 500 students at UG and PG, with the staff specialized in various fields of Digital Systems, Signal Processing, Microwaves, Microprocessor Applications, Computer Systems and Communication Engineering, Embedded Systems and VLSI Design, Global and Regional Navigation Satellite Systems etc. and most of them having Doctorates.

The broad spectrum of subjects in the area of ECE is fully represented. The presents of research are on VLSI and Embedded System, Digital Signal Processing, Microwave Engineering, Modern Tele Communications, Global and Regional Navigation Satellite Systems etc.

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

1. 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 laboratory exercises and self study projects.
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. Faculty:

Faculty:

S.No.	Name of the Faculty		Field of Interest
Professors			
1.		Prof. B. Rajendra Naik Ph.D HEAD	VLSI Design, Communication and Image & Signal Processing
2.		Prof. P. Chandrasekhar Ph.D	VLSI and Embedded Systems, Parallel Processing and Numerical Techniques.
3.		Prof. L. Nirmala Devi Ph.D	Signal Processing & Wireless Sensor Networks
4.		Prof. D. Ramakrishna Ph.D	RF & Microwave Communication Systems
5.		Prof. P. Naveen Kumar Ph.D	Global Positioning System and Satellite Communication
6.		Prof. P. Kotilakshmi Ph.D	VLSI Design, Digital Systems & Communication Systems.
Assistant Professors			
1.		Mrs. P. Padma M.Tech, (Ph.D)	VLSI Design, Testability, Communication System and Mixed Signal Design
2.		Dr. M. Shyamsunder Ph.D	Signal Processing, Microwave Engineering

3.		Mr. Md. Misbahuddin M.E, (Ph.D)	VLSI Design, Analog Electronics, Microprocessors
4.		Dr. A. Bharathi Ph.D.	Microwave Antennas, RF and Microwave Engineering, EM wave theory
5.		Dr. R. Sandhya Ph.D.	Wireless Communications, Optical Communication
6.		Mrs. P. Srividya M.E, (Ph.D)	Signal Processing, Wireless Communications

Assistant Professors (Contract)

1.		Mr. B. Ramesh M.Tech	VLSI design
2.		Mr. K. Prem Kumar B.E, (M.E)	Wireless Communication
3.		Mr. R. Narendra Reddy M.E, (Ph.D)	Microwave Antennas
4.		Mr. G. Kishore Kumar M.E	Systems and Signal Processing

5. Academic 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 77 students have been awarded with Ph.D. degree.

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.

The Singareni Collieries Company Limited (SCCL) has sanctioned amount Rs 50 Lakhs for construction of three classrooms in the department for UG Students under CSR grant in March 2021. As part of this project MoU is executed between SCCL and Osmania University on 19th June 2021.

**7. Research/Consultancy Projects:****TEQIP – I**

The Department was identified in TEQIP – I and established VLSI & Embedded Systems Laboratory with Micro-wind, VxWorks, Metroworks, 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

1. Under Technical Education Quality Improvement Program (TEQIP II), faculty members have been attended Intensive Training Programs and International Conferences and organizing short term courses.
2. The Department is procured state of art lab equipment and software tools such as Cadence, Tanner, Matlab, Simulink, HFSS, Spectrum analyzer, GPStation 6 Triple Frequency (GPS/GLONASS/GALILEO/QZSS/BeiDou/GAGAN) Receiver, 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

1. Under Technical Education Quality Improvement Program (TEQIP III), faculty members have been attended Intensive Training Programs and International Conferences and organizing short term courses
2. 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, Xilinx 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.

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

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

Multimedia Project

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

DST – FIST

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

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

CV Raman Heterogeneous High Performance Parallel Computing Lab Department received Rs. 5, 00,000/- as a grant and 18 Desktops from AMD India Private Limited and established C.V. Raman Heterogeneous Computing lab in August 2012. The objectives of this project are to carry out collaborative research and conduct seminars/workshops in parallel processing. As a part of the project, the

Department introduced an elective subject, “Open CL Programming for Advanced Graphic Processors”.

8. Research Projects details during 2017-2021

Prof. B. Rajendra Naik

1. Science and Engineering Research Board (SERB) Research Project Rs 22.175 Lakhs under Department of Science & Technology, Government of India (2019-2022).

Prof. L. Nirmala Devi

1. Project titled “**Performance analysis of crop monitoring system.**” It is supported by University Grants Commission (UGC) Govt. of India of amount of Rs. 4.5 Lakhs for 3 years (2017-2020).
2. Energy Management in Wireless Sensor Networks research project funded by Ministry of Electronics and Information Technology (MeitY) Govt of India with 28 Lakhs

Prof. D. Ramakrishna

1. Studies on Metamaterial based compact printed antennas for mobile communications” Sponsored by DST, Govt. of India under the scheme WOSA. The Sanctioned amount of the project is Rs.25 Lakhs and duration is 3 years (2021-2024).
2. “Antenna and RFPCB Component Characterization” Research Support Project, MathWorks India Private Limited, January 2021 to June 2023, Rs.25.4 Lakhs.

Prof. P. Naveen Kumar

1. “Investigation & analysis of Ionospheric Time Delay Effects using NavIC data for Civilian Navigation Applications”, Sponsored by Space Applications Center (SAC), Indian Space Research Organization (ISRO), Dept. of Space, Govt. of India. The Sanctioned amount of the Project is Rs.19.81 Lakhs and duration is 3 years (2017-2020).
2. “IRNSS Navigation Receiver Field Trail and Data Collection”, MoU project between Osmania University and Space Application Center, Indian Space Research Organization (ISRO), Dept. of Space, Govt. of India. The State of the art NavIC/IRNSS IGS receiver Equipment amount of the worth Rs.56 Lakhs is provided and for duration is 5 years (2016 -2021).

9. Consultancy Projects details from 2017-2021

Prof. B. Rajendra Naik

1. Department has successfully completed contract for Acquisition of Research Services (CARS) project entitled “Advanced TERCOM Aided Inertial Navigation System by Velocity and Position Correction” under Principal Investigator of Prof B Rajendra Naik with a funding of Rs.9.43 Lakhs (2018-2020).

Prof. Chandrasekhar

2. Consultancy project from RCI, “**Multi Communication protocols for SDR Applications**” worth of Rs. 10 lakh

10. Patents details from 2017-2021 (5 years)

Prof. B. RajendraNaik

1. Published a patent “Non- invasive portable device for measuring hemoglobin and blood pressure using artificial intelligence” Application No: 201941041551, Published on 20/03/2020

Prof. B. Rajendra Naik and Prof. L. NirmalaDevi

2. Published a patent “3D Protective Mask Based Water Quality Monitoring System Powered by Solar with Good Detection” Patent publication date on 05-03-2021, India.

11. List of 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.

12. Software’s available in the department

- 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.
- XilinxVivado software

(ii) Hardware available in the department

- 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
- Hand held Vector Network Analyzer
- LCR meter
- Digital Storage Oscilloscope
- Single frequency GNSS/SBAS Receiver with receiver independent exchange data format. NAVLAN-IG3
- ZedBoard Zynq-7000 ARM/FPGA SoC Development Board
- PCB prototyping Machine
- ISRO's IRNSS/GPS/GAGAN (IGS) Receiver Station
- Accord NAVLAN IG3 Single Frequency Receiver (GPS/GLONASS/ NavIC/ GAGAN)
- Novatel GPStation-6 Triple Frequency Receiver (GPS/GLONASS/ BeiDou/ QZSS/ Galileo/GAGAN)
- Trimble Juno SA GPS/GAGAN Handheld Receiver

13. List of Publications in International Journals by Faculty:

Prof. Chandra Sekhar

1. Noami, Ahmed, B. Pradeep Kumar, and P. Chandrasekhar. "Design and implementation of a united multi-core memory controller using AXI4-lite interface protocol." *International Journal on Emerging Technologies*, vol. 11, issue 3, pp: 468-475, 2020.
2. Noami, Ahmed, Boya Pradeep Kumar, P. Chandrasekhar, Abdullah Alahdal, and Nada Safi. "High Priority Arbitration for Less Burst Data Transactions for Improved Average Waiting Time of Multi-Processor Cores." *International Journal of Applied Science and Engineering Progress*, Vol. 14, Issue 3, 2021.
3. Noami, Ahmed, B. Pradeep Kumar, and P. Chandrasekhar. "High Performance AXI4 Interface Protocol for Multi-Core Memory Controller on SoC." In *Data Engineering and Communication Technology*, pp. 131-140. Springer, Singapore, 2021.
4. Rajendar, S., P. Chandrasekhar, and M. Asha Rani. "Impact of device and dynamic variations on functional crosstalk noise and delay in inductively coupled interconnects." *Materials Today: Proceedings*, 2020.
5. Rajendar, S., P. Chandrasekhar, and M. Asha Rani. "Effect of Repeater Size and Temperature on Functional Crosstalk Noise and Delay in Capacitively Coupled Interconnects." *Solid State Technology*, pp: 6792-6801, 2020.

PROF. B. RAJENDRA NAIK

1. A. NageswarRao, **B. RajendraNaik**, and L. Nirmala Devi. "On the relay node placement in WSNs for lifetime maximization through metaheuristics." *Materials Today: Proceedings* (2020).
2. Vijetha K, **B. RajendraNaik** "High performance area efficient DA based FIR filter for concurrent decision feedback equalizer." *International Journal of Speech Technology* 23, no. 2 (2020): 297-303.
3. Dasharatha M., N. S. S. Reddy, **B. RajendraNaik** and ShobanMude. "VLSI Design and Synthesis of Reduced Power and High Speed ALU Using Reversible Gates and Vedic Multiplier." In *Advances in Decision Sciences, Image Processing, Security and Computer Vision*, pp. 272-280. Springer, Cham, 2020.
4. Praneet Raj Jeripotula, MudavathRaju, **B. RajendraNaik**, C. Anil Kumar "A Novel Approach Using Square of the Error and Error Autocorrelation for Grating Lobes Suppression in Adaptive Beamforming" *CSI Transactions on ICT*, Volume 16, Issue NO.4, Pages 319-326 (2020)
5. Jeripotula, Praneet Raj, **B. RajendraNaik** and C. Anil Kumar "A novel sign variable step size LMS (SiVSS-LMS) algorithm for adaptive beamforming." *CSI Transactions on ICT* 8, no. 4 (2020): 377-384.
6. Sri, M. Sushma, K. Jayasankar, B, **B. RajendraNaik**, Ravi, and P. Praveen Kumar. "On the Use of Region Convolutional Neural Network for Object Detection." In *Data Engineering and Communication Technology*, pp. 315-324. Springer, Singapore, 2021.https://doi.org/10.1007/978-981-16-0081-4_31
7. MudavathRaju, **RajendraNaikBhukya**, and Praneet Raj Jeripotula. "The mitigation of signal integrity issues in coupled MWCNT bundles and a comparison with Cu interconnects." *Journal of Computational Electronics* 20, no. 3 (2021): 1430-1438.

Prof. L. Nirmala Devi

1. L. Nirmala Devi "Clustered Relay Node Placement for WSN through Metaheuristics Algorithm" *International Journal of Intelligent Engineering and Systems*, Vol.13, No.6, 2020, DOI: 10.22266/ijies2020.1231.07 ISSN 2185-3118
2. L. Nirmala Devi, G. Karthik Reddy "Scheduling Protocol for throughput maximization in Barrowing-Aided Energy Harvesting System" *IEEE Journal of Networking Letters*, ISSN 2576-3135, DOI: 10.1109/LNET.2020.3011567.
3. L. Nirmala Devi, Putti Srividya "Multi-Strategic Trust Evaluation for Intrusion Detection in Wireless Sensor Networks" *International Journal of Intelligent Engineering and Systems*, Vol.14, No.2, 2021 DOI: 10.22266/ijies2021.0430.10
4. L. Nirmala Devi "Collaborative correlation coding assisted routing algorithm for Wireless Mesh Sensor Network" "is published in the *Journal of Critical Reviews*, Scopus indexed in August 2020.
5. L. Nirmala Devi "On the Relay Node Placement in WSNs for Lifetime Maximization through Metaheuristics" October 2020, <https://doi.org/10.1016/j.matpr.2020.09.527>, Elsevier *Journal of Materials Today Proceedings*.
6. L. Nirmala Devi "On Maximizing the Coverage and Network Lifetime in Wireless Sensor Networks Through Multi-Objective Metaheuristics" *Springer Journal*, November 2020, 10.1007/s40031-020-00516-y

7. L. .Nirmala devi ,G. Karthik Reddy “Optimal Relay Coil Placement in Magnetic Resonant Coupling based Power Transfer” Published in Journal of IEEE Communication Letters ,June 2021, DOI: 10.1109/LCOMM.2021.3089632

Prof. P Naveen Kumar

1. Devireddy K, Narsetty S, Ramavath AK, **Perumalla NK.**, “Validation of the IRI-2016 Model with Indian NavIC data for Future Navigation Applications”, IET Radar Sonar and Navigation Journal, 2021; 15:37-50, Wiley Publications,(SCI Indexed International Journal).
2. KavithaDevireddy, Noor UIAbedin, Devadas Kuna and **P. Naveen Kumar** “Analysis of Various Parameters of L5 and S1 NavIC Signals over Low Latitude Region”, **Elsevier** Journal of Procedia Computer Science, Volume 171, pp. 2704–2712, 2020. (SCOPUS Indexed Journal)
3. Kavitha D., **Naveen Kumar P.**, Praveena K., “Comparison of VTEC Due to IRI-2016 Model and IRNSS over Low Latitude Region”, **Springer** Nature Switzerland AG 2020, Learning and Analytics in Intelligent Systems, Volume 4, Spp. 320–326, 2020.
4. **P Naveen Kumar**, D Kavitha, “GNSS Ionospheric Scintillation Monitoring Using GPStation-6 at Low Latitude Ground Station” International Journal of Electronics, Electrical and Computational System , ISSN 2348-117X Volume 6, Issue 8 August 2017.(UGC Listed, DOAJ,EBSCOHOST, MENDELEY)
5. Kaitha Praveena, **Perumalla Naveen Kumar**, D. Krishna Reddy, N. Santhosh “Analysis of Ionospheric Scintillations of NavIC L5 and S band Signals over Low Latitude Indian Region”,**Elsevier** Journal of Procedia Computer Science, Volume 171, 2020, pages 989-998.(SCOPUS Indexed Journal)
6. Devadas Kuna, N. Santhosh, **Naveen Kumar Perumalla**, “Preliminary Analysis of Standalone Galileo and NavIC in the context of Positioning Performance for Low Latitude Region”, **Elsevier** Journal of Procedia Computer Science, Volume 171,2020. (SCOPUS Indexed Journal)
7. K Madhu Krishna, **P Naveen Kumar**, R Naraiah, “Prediction of Differential GPS Corrections Using AR and ARMA Models”, **Springer** Nature Switzerland AG, ICETE 2019, LAIS 4, pp. 290–298, 2020.
8. Kuna D., Perumalla N.K., Anil Kumar R. (2020) Positioning Parameters for Stand-Alone and Hybrid Modes of the Indian NavIC System: Preliminary Analysis. **Springer** Nature Switzerland AG 2020, Learning and Analytics in Intelligent Systems, Volume 4pp. 299–306, 2020.

Mrs. P. Padma

1. **Padma.Pandiri**, M.satyanayana “Low density parity check codes for 5G NR”,International journal of Analytical and Experimental Modal Analysis(IJAEMA) ,volume XII,issue VI,June 2020 pp2755-2760.
2. Namsamgari Madhusudhan, **P.Padma**, Rameshwar rao “Development of Pipe Blowfish algorithm with Memory based S-Box”.Journal of Physics: conference series 1804(ICMAICT) 012159 doi10.1088/1742-6596/1804/1/012159.

Dr.M.Shyamsunder

1. Shyamsunder, M. and Krishna Mohan, V. "IoT based Soil Quality Monitoring for An Efficient Irrigation" Alinteri Journal of Agriculture Sciences, 36(2): 13-17. (2021). doi: 10.47059/alinteri/V36I2/AJAS21110
2. M.Shyamsunder, SambarajuBhavani , Mohammed Mujtaba, MikkiliKeerthana," SMART BILLING TROLLEY" International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 07 | July 2021
3. V.KrishnaMohan ,A.Nikhilkumar, P.Preetham, MetukuShyamsunder, "Scintillation Effect And Ask Modulation In FSO", Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 6, June 2021: 1370-1377
5. M.Shyamsunder, SambarajuBhavani , Mohammed Mujtaba, MikkiliKeerthana, "SMART BILLING TROLLEY" International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 07 | July 2021

Dr. R Sandhya

1. AbbireddyguruSivanjaneya, SandhyaRachamalla, K.Sambhasiva Rao, Bharath K, Srujana V N,"Travelling Wave Slotted Waveguide Antenna for Ku band applications using SIW", Elixir International Journal, Electrical Engineering, Vol 150, January, 2021, pp 55113-55115

Dr.A.Bharathi

1. A.Bharathi, "A Novel Compact Multiband Reconfigurable WLAN MIMO Antenna, IETE Journal of Research, 20 Jan 2021. DOI: 10.1080/03772063.2020.1869598.
2. A.Bharathi "A Right Hand Circularly Polarized Dual-Band Microstrip Antenna Array", IETE Journal of Research, 21 Jan 2021. DOI:10.1080/03772063.2020.1871426.

14. List of Publications in International Conference by Faculty:

Prof. P. Chandrasekhar

1. Noami, Ahmed, Abdullah Alahdal, B. Pradeep Kumar, P. Chandrasekhar, and Nada Safi. "High Speed Data Transactions for Memory Controller Based on AXI4 Interface Protocol SoC." In 2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), pp. 1-7. IEEE, 2021.

Prof.B. RajendraNaik

1. A. Nageswar Rao, **B. RajendraNaik**, L. Nirmala Devi, and K. VenkataSubbareddy. "Trust and Packet Loss Aware Routing (TPLAR) for Intrusion Detection in WSNs." In 2020 12th International Conference on Computational Intelligence and Communication Networks (CICN), pp. 386-391. IEEE, 2020.
2. Sri, M. Sushma, **B. RajendraNaik**, and K. Jayasankar. "Object Tracking using Motion Estimation based on Block Matching Algorithm." In 2020 International

Conference on Inventive Computation Technologies (ICICT), pp. 519-522. IEEE, 2020.

3. Sri, M. Sushma, **B. RajendraNaik**, and K. Jayasankar. "Edge Detction Using Block Processing and Lookup Table." In *2020 5th International Conference on Communication and Electronics Systems (ICCES)*, pp. 1-5. IEEE, 2020.

Prof. L. Nirmala Devi

1. **L. Nirmala Devi** "Trust and Packet Loss Aware Routing (TPLAR) for Intrusion Detection in WSNs" 12th **IEEE International Conference** on 'Computational Intelligence and Communication Networks 2020' at BITS Nainetal,India, **25-26 Sept. 2020**

Prof.D.Ramakrishna

1. Kunooru Bharath, Srujana Vahini Nandigama, Rama Krishna Dasari and Pandharipande, "Orthogonal Polarized Horn Antenna with High Port Isolation at Ka- Band," IEEE MTT-S Latin America Microwave Conference (LAMC-2021),May 26-28,2021, Cali, Colombia.
2. Mettu Goutham Reddy, Kunooru Bharath, Srujana Vahini Nandigama and Rama Krishna Dasari, "Design of Half Power Divider at Ku-band using Empty Substrate Integrated Waveguide," IEEE MTT-S Latin America Microwave Conference (LAMC-2021),May 26-28,2021, Cali, Colombia.

Prof.P Naveen Kumar

1. KavithaDevireddy, **Naveen Kumar P**, "Performance Evaluation of Global ionospheric models using Indian NavIC signals", **43rd COSPAR Scientific Assembly 2021**, 28th January-4th February, International Convention Centre, Sydney **Australia**.
2. K. Devireddy, S. K. Veerlapati, K. C. C and **N. K. Perumalla**, "Variations of TEC based on GPS data during descending phase of 24th solar cycle, 2017 year over low latitude Indian station," 2020 **IEEE Bangalore Humanitarian Technology Conference (B-HTC)**,Vijiyapur, 2020 pp. 1-4,
3. R.P.Naraiah,**Dr P Naveen Kumar** and Chandra Shekar"Analysis of position accuracy of NavIC Satellites - Preliminary Results", **IEEE International Conference for Emerging in Technology (INCET-2020)** at JCE, during 5-7, June 2020, Belgaum, India.
4. D. Sony, JB Farheen, D Krishna Reddy and **P. Naveen Kumar**," Integrity Monitoring of GNSS using Ztest", "International Conference On Emerging Trends In Circuit-Branch Technologies And Applications-2021, 3rd-4th April 2021.
5. Sony, S.Chandravardhan, D. Krishna Reddy, **P. Naveen Kumar**," Satellite Selection Algorithm for RAIM Application", "International Conference On Emerging Trends In Circuit-Branch Technologies And Applications-2021, 3rd-4th April 2021.
6. D.Sony, Dr.D. Krishna Reddy and **P. Naveen Kumar**, "Statistical Characterization of IRNSS Satellite Clock Error for Receiver Autonomous

Integrity" , **"Springer** Third International Conference Soft Computing and Signal Processing" (ICSCSP-2020), 21st-22nd August 2020.

7. **P.Naveen Kumar** "Statistical Characterization of IRNSS Satellite Clock Error for Receiver Autonomous Integrity", 3rd International conference on Soft Computing and Signal Processing (ICSCSP-2020) springer – Advances in Intelligent Systems and proceedings at MRCET, during August 21-22,2020.

Dr.M.Shyamsunder

1. MetukuShyamsunder, KakarlaSubbaRao, "Classification of LPI Radar signals using Multi-Layer Perceptron (MLP) Neural Networks", International Conference on Advances in Signal Processing and Communication Engineering (ICASPACE-2021),August 2021

15. List of Publications in National Conference by Faculty:

Prof.P.Naveen Kumar

1. K Madhu Krishna, Devadas Kuna and **P Naveen Kumar**, "Comparative Analysis of the Differential NavIC Corrections using Code and Carrier Phase Measurements" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
2. K Madhu Krishna, Devadas Kuna and **P Naveen Kumar**, "Analysis of Differential Corrections using L5 Code and Carrier Phase Measurements of IRNSS" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
3. PeddaNaraiah.R, **P.Naveen Kumar**, G.Suresh, G.ChandraShekar"Ananysis of Selected Paramaters for Indian Navic Signals" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
4. DevadasKunaa ,K.MadhuKrishnab , **Naveen Kumar Perumalla**, "Analysis of European Galileo satellite position determination using broadcast ephemeris" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
5. KavithaDevireddy , **Naveen Kumar Perumalla**, "Estimation of Ionospheric delay due to NavIC signals over Indian region during descending phase of 24th solar cycle 2017 year" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
6. N.SanthoshSricharaniThomala**Naveen Kumar Perumalla**, U.Himavarsha "Signal Strength Analysis of BeiDou Navigation Satellite System over Indian region" in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.

7. N.Santhosh Sricharani Thomala **Naveen Kumar Perumalla**, U.Himavarsha “Satellite Visibility Analysis of BeiDou Navigation Satellite System over Indian region” in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
8. K.Praveena, **P.Naveen Kumar**, D.Krishna Reddy “Analysis of GPS and GAGAN for Sunny day and Rainy day Using Single Frequency Receiver over Low Latitude Region”, in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
9. K.Praveena, **P.Naveen Kumar**, D.Krishna Reddy “Preliminary Performance Analysis of GPS and GAGAN under selected conditions for Single Frequency Applications”, in AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.

16. List of Books / chapters/Proceedings Published by Faculty during 2017-2021 (5 years)

Prof. L. Nirmala Devi

1. .L.Nirmala Devi “Hybrid Feature Vector-Assisted Action Representation for Human Action Recognition Using Support Vector Machines” **DOI:** 10.4018/978-1-7998-7701-1.ch001, Publisher IGI Global USA for the book titled “Methodologies and Applications of Computational Statistics for Machine Intelligence” June 2021

Dr. R. Sandhya

1. Chapter 5 of Book titled “*Advances in Decisions Sciences, Image Processing, Security and Computer Vision*”, ICETE 2019, book series of Springer. R.Kranthi Kumar, R.Sandhya, R.Laxman, R.Chandrakanth, “LOS Rate estimation using Extended Kalman Filter”, S. C. Satapathy et al. (Eds.): ICETE 2019, LAIS (Learning and Analytics in Intelligent Systems) Springer book series, Volume 4, pp.36-43, 2020. https://doi.org/10.1007/978-3-030-24318-0_5

17. 'Guest Lecturers, Key Note Lectures delivered, and Session Chairby Faculty in other institutes, industry, platforms:

Prof.L.Nirmala Devi

1. Delivered a Lecture on “Research Challenges in Wireless Networks” in the one Week AICTE sponsored STTP on Advance Analysis of Wireless Communication and Soft Computing during January 27, 2020 at CMR College of Engineering, Hyderabad.
2. Delivered a webinar on “Wireless Sensor Networks and its Applications” conducted by IEEE Signal processing Society, during 29th April 2020, Hyderabad.

3. Delivered a webinar on “A Networking prospective towards Wireless Sensor Networks” conducted by IEEE Communication Society, during 20th June 2020, Hyderabad.
4. Delivered a Lecture on “ Security in IoT” at AICTE sponsored one week STTP during 14th -19th December 2020 at ACE College of Engineering, Hyderabad.
5. Delivered a lecture on “Security issues in Artificial Intelligence” AICTE Sponsored Two Week Online Faculty Development Programme (FDP) on “Implementation of Artificial Intelligence for Solving Digital Signal and Image Processing Problems” on November – December 2020
6. Delivered a lecture at AISCTE-ISTE Sponsored refreshes program on “Opportunity Challenges and research trends in Wireless Communications during 12th -18th March 2021 by Gurunanak institutions
7. Delivered a lecture at AISCTE-ISTE Sponsored refreshes program on “Opportunity Challenges and research trends in Wireless Communications during 20th -22th April 2021 by Gurunanak institutions”
8. Key Note address on” Security in IoT” at Nawabsha Alam College of Engineering on 28th June 2021
9. Delivered a lecture in AICTE Sponsored ATAL –FDP on “Wireless Sensor Network in real time deployment and applications “ on 26th July 2021 at ECE dept Stanley College of Engineering

Prof. P. Naveen Kumar

1. Delivered lecture on “R & D trends in Global and Regional Satellite Navigation Systems” in ATAL Sponsored One Week Online FDP on “Advances in Electronics and Communication Engineering for Industrial Applications”, 26th to 30th July 2021 at Stanley College of Engineering and Technology for Women, Hyderabad.
2. Delivered a Webinar on “Indian NavIC and other GNSS Research Analysis and Challenges” at Department of Aerospace Engineering, ACS College of Engineering, Bengaluru, Karnataka, 05th June, 2021.
3. Delivered a Guest lecture on “Indian Space Program” on Discover India Program of Higher Defense Management Course (HDM-16) for Senior International Military Officers at College of Defense Management, Higher Defense Management Course (HDMC), Secunderabad, 17th Feb 2021.
4. Delivered Lecture on “How to become successful” a One-week Orientation Program at Dr. B. R. Ambedkar Institute of Management and Technology, Hyderabad. 4-8 January, 2021.
5. Delivered a Keynote Address on AICTE sponsored national e- conference “Technology for Impactful and Sustainable Development of the Society”, TISDS-2020 at G Pullaiah College of Engineering and Technology, on 16th December 2020
6. Delivered a Guest lecture on “Marine Navigation” On AICTE Sponsored One-Week Short Term Training Program (Online Mode) On “Current Trends and Emerging Advances in Marine Navigation and Communication” At Chaitanya Bharathi Institute of Technology, Department of ECE On 11th December 2020.

7. Delivered a talk on “Global Navigation Satellite Systems and its Augmentation systems” On AICTE Sponsored STTP on Signal Processing Technologies for Advanced Wireless Communication Technologies. (Online Mode) at Jayamukhi Institute of Technological Science, Warangal, on 25th November 2020.
8. Delivered a talk on “Global Navigation Satellite System (GNSS) and its applications” on National Webinar on GNSS At KL University, Department of Electronics & Communication Engineering on 28th Aug 2020.
9. Delivered a talk on “Innovation, Design Thinking and Entrepreneurship (IDTE)” On one-week Faculty Development Program at Dept. of ECE, 1st- 6th June 2020, SNIST, Hyderabad.

Dr.M.Shyamsunder

1. Delivered a Guest lecture for two sessions on topic titled “Keil Software Simulations” and “8051 Chip Programming” in the online FDP titled “Recent Trends in IoT Using Embedded Systems-SLOT-1” conducted by Dept. of ECE, MGIT on 08-December-2020.
2. Delivered a Guest lecture two sessions on topic titled “ARM Programming with LPC2148” in the online FDP “Recent Trends in IoT Using Embedded Systems” conducted by Dept. of ECE, MGIT on 02-Feb-2021.
3. Delivered a Guest lecture for two sessions on “Python programming on raspberry pi” in one week online FDP on “AI, Machine learning, Deep learning and automation applications in Electrical engineering” conducted by SASI Institute of Technology and engineering, Tadepalligudem, Andhra Pradesh on 5th July 2021.

18. Workshops / Seminars / Trainings / Courses attended by Faculty or students (both offline, online) :

Prof.L.Nirmala Devi

1. Faculty Development Program on “Artificial Intelligence” Under AICTE Training and Learning (ATAL) Academy during 8th to 12th Feb 2020 at IIIT Naya Raipur.
2. TEQIP Workshop on “Essential Mathematics for Machine Learning with hands on training” at IIT Roorkee, during 23rd -27th November 2020.
3. TEQIP-III attended a professional development training program for faculty by IIM Vishakhapatnam on “building institutions for future” during 9th -11th February 2021
4. Attended as Short term Course on “VLSI Architectures for Energy-Efficient Embedded Healthcare Systems” during 26-28 February 2021 online at IIT Bhubaneswar

Dr.M.Shyamsunder

1. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "IOT in 5G Technology" from 2021-5-24 to 2021-5-28 at Silicon Institute of Technology.
2. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Machine Learning and its Application" from 2021-6-21 to 2021-6-25 at DrHarisinghGour University.
3. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Application of IOT in Agriculture" from

2021-07-06 to 2021-07-10 at Gandhi Institute For Technology (GIFT) Bhubaneswar.

4. participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Embedded Design and Development using Free / Open Source Tools" from 09/08/2021 to 13/08/2021 at Centre for Development of Advanced Computing.

Dr.R.Sandhya

1. Attended a STC on "Recent trends in Wireless Communication (RTWC-2020)" during 20-24 July, 2020 conducted by Dept of Electronics Engineering, NIT, Uttarakhand, sponsored by TEQIP-III under twinning activities with SLIET Longowal.

19. Guest Lecturers/ Key Note Lectures/Workshops / Seminars / Trainings / Courses organized by department/college (both offline, online) :

Conducted a three day short term online training program on Machine learning and Deep learning for real time applications in collaboration with Brain labs and sponsored by SERB DSI Govt. of India

20. Student Achievements:

S.No.	Student Name	Details of Award/sports/ Higher Studies / Off Campus Jobs /GRE/CAT/GATE Score	Month/Year
1	Goutha Reddy Shalini	GATE AIR -18	2021
2	AmireddyBharathSimha Reddy	GATE AIR - 139	2021
3	PalawarVaishnavi	GATE AIR - 316	2021
4	Kona Karthik (2017 Batch)	IES - 31	2021
5	Lakshmi Prasanna (2019)	IES-38	2021
6	SonajiMeghana (2018)	IES - 41	2021

21. LIBRARY FACILITIES

The Department Seminar Library has the following:

S.No	Details	Quantity
1	Text Books	6687
2	Ph.D. Thesis	76
3	ME Project reports	1515
4	B.E Project reports	1125
5	IAP Reports	295
6	Lecture Notes	190
7	General Seminar Reports	403
8	CDs	184
9	Old Bound Journals	290

22. 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. Two teachers from the department awarded Ph.D degree.

23. Memberships of Faculty Members

Prof. B. Rajendra Naik	IEEE Senior Member
Prof. L.Nirmala Devi	Optical society of India(OSI) IEEE
Mrs. P. Padma	MIEEE
Prof. D. Ramakrishna	MIEEE, MIETE, MIE, MISSS, MISTE
Prof.. P. Naveen Kumar	MIEEE, MIACSIT, MISOI, MBES, MISTE, FIETE
Prof.. P. Kotilakshmi	MIETE
Mr. Md. Misbahuddin	MIETE, MISTE
Dr. M. Shyam Sunder	MIETE
Dr. A. Bharathi	MIETE, MIEEE
Mr.M.Misbhauddin	Fellow IETE,

24. Administrative Officers (Department level, college level, university level)

S.No.	Faculty Name	Designation, Office Address	Department/ College/ University Level, Outside
1	Prof.P.Chandrasekhar	Director of Evaluation, Exam cell UCE OU	College Level
2.	Prof.B.RajendraNaik	Dean (Student Affairs)-Osmania University Head of the Department-ECE Dept.	University Level Department Level
3.	Prof.L.Nirmala Devi	Director (Ladies Hostel)-Osmania University Chairperson, Board of Studies, ECE Dept.	University Level Department Level
4.	Prof.D.Ramakrishna	Joint Director, Centre for AI & ML Coordinator-SPARC, GIAN,VAJRA Convener for College Technical Magazine	College Level College Level College Level

5.	Prof.P.Naveen Kumar	Director (Infrastructure) - Osmania University Coordinating Officer (MoU(SAC,ISRO- UCE,OU)) Faculty Advisor - ME(ESVLSID)	University Level College Level Department Level
6.	Prof P .Kotilakshmi	Time Table In charge	Department Level
7.	Mrs.P.Padma	Convener of PTPG admission	Department Level
8.	Dr.M.Shyamsunder	General warden, Swarnamukhi Hostel, TEQIP-III Coordinator	College Level Department Level
9.	Mr.M.Misbhauddin	Asst. Controller, CoE, OU General Warden, Ganga Hostel	University Level College Level
10.	Dr.A.Bharathi	Institute Nodal officer for processing AICTE scholarship forms UG, Joint Director (UG), Exam Cell, UCE, OU	College Level College Level

25. Other Information:

1. Prof. P. Chandra Sekhar serving as Chair, IEEE CAS/EDS Joint Chapter, IEEE Hyderaabad section for the year 2020.
2. Prof. P. Chandra Sekhar appointed as Director of Evaluation, Exam Cell, OU 29th July 2020.
3. Dr. M. Shyam sunder awarded Ph.D title of 'Classification estimation of modulation parameters of LPI Radar Signals' on 4th June 2020.

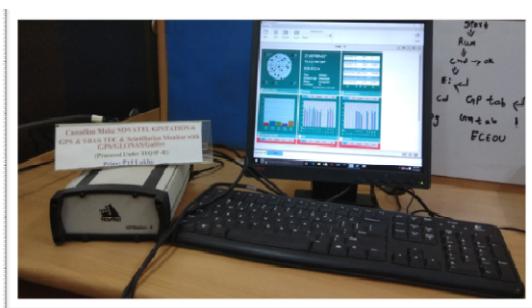
26. Future interests of the Department are as follows

- Strengthening VLSI, Signal Processing and Microwave laboratories
- Collaborative research with foreign countries
- Establishment of Wireless Sensor Networks Lab under UGC.
- Submitting Research project proposals to various funding agencies such as DST, AICTE, UGC and DRDO etc.
- Curriculum development based on the industrial requirements.
- Active participation in Incubation Centre.
- Interacting with distinguished alumni of the Department to:
 - Establish an Alumni Block for carrying out technical events by the alumni.
 - Provide fellowships to UG students to pursue post graduation.
 - Offer Ph.D. programs to PG students.
 - Offer Post doctoral fellowships for the Department faculty to make them expert in selected fields.
 - Sponsor projects to students and faculty.

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



GNSS Antenna's Setup for Real-time Data Acquisition(AGRL)



Novatel GPStation-6 GPS/Glonass/Galileo/Beidou/QZSS Triple frequency Satellite Navigation Receiver

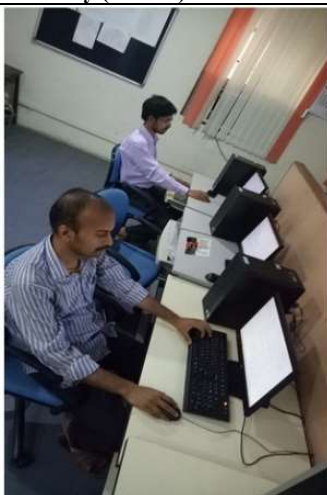
Advanced GNSS Research Laboratory (AGRL)



Research Scholars Lab



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



DEPARTMENT OF ELECTRICAL ENGINEERING

Phone No.: 040 - 2709 8628, 2768 2382

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









1. Academic Programmes







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

FS-Foreign Students

2. Faculty of the Department

Name of the Faculty	Areas of Interest
Professors	
	<p>Dr. G. Yesuratnam M.Tech., Ph.D. (Head of the Dept.)</p> <p>Voltage Stability, Power Systems Security, Reactive Power Optimization, AI Applications to Power Systems</p>
	<p>Dr. M. Manjula M.E., Ph.D.</p> <p>Power Systems, Power Quality, Neural Networks, Microprocessors & Microcontrollers</p>
	<p>Dr. B. Mangu M.E., Ph.D.</p> <p>Power Electronics, Electric Drives, Design of converters for renewable sources Integration</p>
	<p>Dr. G. Mallesham M.Tech., Ph.D., Post Doc.</p> <p>Control Systems & Instrumentation, Neural Networks & Fuzzy Logic</p>
	<p>Dr. P. Srinivas M.Tech., Ph.D.</p> <p>Power Electronics, Industrial Drives & Special Electrical Machines with emphasis on Switched Reluctance Motor</p>
	<p>Dr. P. Satish Kumar M.Tech., Ph.D.</p> <p>Power Electronics, Electric Drives, Multilevel Inverters, Matrix Converters and Special Machines</p>
	<p>Dr. E. Vidya Sagar M.E., Ph.D.</p> <p>Distribution Reliability, Power Quality, Deregulated Power Systems, Smart Grid Distribution System</p>

Associate Professors		
	Dr. M.V. Ramana Rao M.Tech., Ph.D.	Power Electronics, Electric Drives & Special Machines
	Mr. CH. Siva Kumar M.E., (Ph.D.)	Renewable Energy Sources, Power Systems Optimization, Deregulated Power Systems, HVDC Transmission
	Dr. N. Susheela M.E. Ph.D.	Power Electronics & Drives, Special Machines
	Dr. B. Sirisha M. Tech., Ph.D.	Power Electronics, Electric Drives & Special Machines
	Dr. N. Srilatha M.E., Ph.D.	Power Systems Security, Voltage Stability, Artificial Intelligent Techniques, Microprocessors & Microcontrollers
Assistant Professors		
	Dr. G.V. Naga Lakshmi M.Tech., Ph.D.	Electrical Power Engineering, Deregulation of Power Systems, Distributed Generation
	Mrs. E. Sreeshobha M.Tech., (Ph.D.)	Power Electronics, Industrial Drives and Applications
	Dr. R. Linga Swamy M.Tech., Ph.D.	Power Electronics & Drives, Multi level Inverters

	Mr. P. Lokender Reddy M.Tech., (Ph.D.)	Instrumentation & Control Systems, Evolutionary Computation Techniques
	Dr. J. Upendar M.Tech., Ph.D. (IITR)	Power System, Power Electronics, FACTS devices, Artificial Intelligent Techniques
	Mrs. U. Suryavalli, M.Tech, (Ph.D.)	Power Electronics and Machine Drives
Assistant Professors (C)		
	Mrs. G. Jhansi Rani M.Tech., (Ph.D.)	Power Electronics and Industrial Drives
	Mr. S. Vijender Reddy M.Tech., (Ph.D.)	Electrical Power Systems
	Mr. G. Kiran Kumar M.Tech., (Ph.D.)	Electrical Power Systems, Reliability Engineering

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

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

Research Activities

- DSP Control of AC/DC Motor Drives
- Brushless DC (BLDC) Motor Drives
- Reliability Engineering in Power Systems
- Control of Switched Reluctance Motors
- Power Quality Problems
- Deregulated Power Systems
- Multilevel Inverters

- Artificial Intelligent Techniques in Power System
- Power System Security & Congestion Management
- Renewable Energy Systems

Faculty Awards/ Honours

Prof. B. Mangu	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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". • Authored text book, G. Mallesham, Kumpati S. Narendra, "Control of a Microgrid: Introduction," The Yale Publication, Report No. 1601, Electrical Engineering, Yale University, Connecticut USA. • Received "Engineer of the year" award on the occasion of Engineers Day on 15th September, 2019 for The Institution of Engineers, Hyderabad. • Received patent (IN-14280) for Design and manufacture of chemical free sanitizing device "UVC Disinfection Box" • Received patent (IN-331934-001) for Design and manufacture of chemical free sanitizing devices "Wand Sanitizer based on UVC radiation as surface disinfection" and "UVC Disinfection Auto Tube Light" UVC will work effectively in killing (99.99%) all viruses, bacterial, spores, by breaking DNA and RNA of microorganisms. These are right solution for sanitizing surfaces of all kinds of office files, furniture (office furniture, class room tables and chairs), food items (raw vegetables or cooked), and space around (class rooms, hostels, office rooms).

	<ul style="list-style-type: none"> ● Received “Best Teacher Award” from State Government of Telangana on Teachers Day on 5th September, 2020.
Dr. P. Satish Kumar	<ul style="list-style-type: none"> ● Received “Engineer of the year-2022” award on the occasion of Engineers Day on 15th September, 2022 for The Institution of Engineers, Hyderabad. ● 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. ● Filed a Patent on “Implementation of SVPWM Techniques to A Multilevel Inverter”, Application No. 201741042315A, published in the Official Journal of Patent, Issue No. 48/2017, page No. 45227, dated 01/12/2017. ● Filed a Patent on “Asymmetrical Cascade H-Bridge Multilevel Inverter with Reduced Power Switches”, Application No. 201741033742A, published in the Official Journal of Patent, Issue No. 09/2018, page No. 7745, dated 02/03/2018. ● Authored text book “Pulse Width Modulation-Performance Analysis in Multilevel Inverters”, Published by ‘De Gruyter Olden Bourg’, Germany, ISBN No. 978-3-11-046817-5. ● Design Patent granted on “Smart Self Disinfecting Face Shield”, Design No. 330167-001, dated 18-06-2020 by Intellectual Property India, The Patent Office, Certificate of registration of design, Government of India. ● Austrailain Innovation Patent granted on “Machine Learning Based Fish Monitoring Machine and Method Thereof”, Patent number: 2020102433, Published in IP Australia on 25/09/2020 ● Authored a text book entitled “Computer Methods in Power Systems – Analysis with MATLAB” by BSP publications.

Dr. N. Susheela	<ul style="list-style-type: none"> 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.
Dr. B. Sirisha	<ul style="list-style-type: none"> Authored a book titled “Generalised Space vector pulse width modulation method for multilevel inverters including over modulation and its implementation with FPGA” B P International publishers India and UK
Mrs. U. Suryavalli	<ul style="list-style-type: none"> Received patent for “Enhanced Algorithm for Motor Rotor Broken Bar Detection” in 2010

Sponsored Projects

Title of The Sponsored Research	Funding Agency	Amount	Name of Faculty	Status
Design, Development and Cost Evaluation of DC House Prototype to promote the use of Renewable Energy for Rural Electrification	Telangana State Council of Science & Technology (TSCOST)	Rs 4.0 lakhs	Prof. P. Satish Kumar	In Progress
Performance Enhancement of Grid Connected Multilevel Inverter based Wind Energy Conversion System with Low Voltage Ride Through Capability using Power Conditioners	India – Slovenia Joint Research Project, Department of Science and Technology (DST), New Delhi	Rs.20.8 lakhs	Prof. P. Satish Kumar	In Progress
Design and Implementation of Control Techniques to Mitigate High Solar PV Penetration Issues into the Grid	Science and Engineering Research Board (SERB)	Rs. 35 lakhs	Prof. B. Mangu	In Progress
Design and Development of Hybrid	Indo-Sri Lanka Joint Research	Rs.24.4 28 lakhs	Prof. P. Satish	Completed

Wind-Solar Power Generation System using Multilevel Inverters for Grid Connected Applications	Project, Department of Science and Technology (DST), New Delhi		Kumar	
Integrated PV-Wind-Battery based Stand-alone Single-phase System for Household Application	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	Prof. B. Mangu	In Progress
Implementation of bidirectional DC – DC converter	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	Prof.P. Srinivas	In Progress
Design and implementation of transmission line simulator laboratory model	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	Dr. J. Upendar	In Progress
Investigation, Implementation & Performance Evaluation of Cascaded Multi level Inverter using SVPWM algorithm	UGC – Major research project	Rs. 8.49 lakhs	Prof.P. Satish Kumar	Completed
Performance Evaluation of Diode-clamped Multi level Inverter using Space Vector Pulse Width Modulation	Department of Science & Technology, New Delhi	Rs. 20.1 lakhs	Prof.P. Satish Kumar	Completed
Mitigation of harmonics in a non- linear load	TEQIP-II	Rs 1.0 lakh	Prof. M. Manjula	Completed
Grid Connected PV-Wind-Battery Based Multi-Input Transformer Coupled Bidirectional DC-DC Converter For Household Applications	TEQIP-II	Rs 1.0 lakh	Prof.B. Mangu	Completed
Reliability Improvement of Distribution Systems using Fault Passage Indicators	TEQIP-II	Rs 1.0 lakh	Prof.E. Vidyasa gar	Completed

Research publications of faculty

Publication	Title	Year
Prof. G. Yesuratnam		
Journal on Electrical Engineering, Vol 16, Issue 1	P. Lokender Reddy, G. Yesuratnam, "Chaotic Particle Swarm Optimization with Attractive Search Space Border Points for Optimal Reactive Power Dispatch"	July, 2022
International Journal of Electrical Power and Energy Systems, Elsevier, Vol. 128	N. Srilatha, G. Yesuratnam, "Chaotic Darwinian Particle Swarm Optimization for Real-Time Hierarchical Congestion Management of Power System Integrated with Renewable Energy Sources"	January 2021
Prof. M. Manjula		
International Conference on Innovation challenges and Advances in Engineering & Technology: A road to self-reliant India (ICAET-2021)Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Maharashtra	Available Transfer Capability of a Deregulated Electricity Systems - A Conceptual Survey	5 th - 6 th September, 2021
International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation	T. Dinesh, M. Manjula, "Design of ORPB based fractional order controller for load frequency control in Multi Area Power System with Integration of RES"	27-28 December, 2021
International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation	T. Dinesh, M. Manjula, "A Fractional Order Tilt Integral Controller Based Load Frequency Control with Dispersed Generation and Electric Vehicle"	27-28 December, 2021
National Convention of Electrical Engineers on Future Electricity Systems: Challenges and Current Trends Institution of Engineers Jodhpur Local Center	M. Manjula, C. Srisailam, "Fractional Order based performance enhancement of electric vehicle system"	November 27-28, 2021

Jodhpur, India		
Prof. B. Mangu		
IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT 2022)	BhukyaBhavsingh, B. Mangu, G. Suresh Babu, “Design and Analysis of a High – Efficiency Electric Vehicle Charging using Inductive Wireless Power Transfer System”	04th - 06th August, 2022
IEEE Sponsored 2nd Global Conference for Advancement in Technology (GCAT -2021)	Ravi Bukya, B. Mangu; Bhookya Bhaskar, BhukyaBhavsingh, “Analysis of Interoperability Different Compensation Network In Wireless EV Charging Systems”	1st - 3rd October, 2021
Asian Journal of Convergence in Technology Volume: VII, Issue: I	Jayaprakash Allemshetty, B. Mangu, KalluriManaswee Reddy, “Enhancing Inertia of a Grid Connected PV System to Improve Frequency Regulation and Stability”	April, 2021
Prof. G. Mallesham		
Sixth International Conference on Electronics, Communication and Aerospace Technology (ICECA 2022)	G. Muralikrishna, G. Mallesham, M. Kannan “Autonomous Integrity Monitoring Of INS/GPS Integrated Navigation System Under Multipath Environment”	December, 2022
Artificial Intelligence and Sustainable Computing: Proceedings of ICSISCET 2021, Springer	CH Siva Kumar, G Mallesham “Implementation of a New Hybrid Boost Converter for High Gain Enhancement of SOFC System”	November, 2022
Communication and Intelligent Systems: Proceedings of ICCIS 2021, Springer	CH Siva Kumar, G Mallesham, “A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC”	August, 2022
International Journal of Modern Developments in Engineering and Science, Vol 1, Issue 2	MV Ramana Rao, G Mallesham, “An Expert System for Design of Output Parameters for BLDC Motor”	February, 2022
ICRDEEE International Conference	S.Mamatha, G. Mallesham, “Hybrid AC/DC microgrid control and management of power using Bidirectional AC/DC Converter by Autonomous Control Mode”	2022
Materials Today: 2022 – Elsevier Proceedings (2022)	CH Siva Kumar, G Mallesham, “A new hybrid boost converter with P & O MPPT for high gain enhancement of solar PV system”	2022
National Power Electronics	Srinu Bhukya, Anil Bharadwaj, NV	December,

Conference (NPEC)	Phanendra Babu, G Mallesham, Suman Maiti, “Control of asymmetrical multilevel STATCOM with hybrid energy system	2021
3rd International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology	CH. Siva Kumar G. Mallesham, “Implementation of a New Hybrid Boosting Converter for High Gain Enhancement of SOFC System”	2021
3rd International Conference on Communication and Intelligent Systems (ICCIS 2021)	CH. Siva Kumar G. Mallesham, “A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC”	2021
International Conference on Computing, Communication, and Sensor Networks	CH. Siva Kumar G. Mallesham, “A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of Solar PV System”	2021
Prof. E. Vidya Sagar		
Journal on Electrical Engineering, Vol 15, Issue 1	E Sreeshobha, E Vidyasagar, “Efficiency and Reliability Evaluation of IGBT Valve Based 48 Pulse Converter UPFC”	July, 2021
Dr. M. V. Ramana Rao		
International Journal of Modern Developments in Engineering and Science, Vol 1, Issue 2	MV Ramana Rao, G Mallesham, “An Expert System for Design of Output Parameters for BLDC Motor”	February, 2022
Mr. CH. Siva Kumar		
Artificial Intelligence and Sustainable Computing: Proceedings of ICSISCET 2021, Springer	CH Siva Kumar, G Mallesham “Implementation of a New Hybrid Boost Converter for High Gain Enhancement of SOFC System”	November, 2022
Communication and Intelligent Systems: Proceedings of ICCIS 2021, Springer	CH Siva Kumar, G Mallesham, “A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC	August, 2022
3rd International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology	CH. Siva Kumar G. Mallesham, “Implementation of a New Hybrid Boosting Converter for High Gain Enhancement of SOFC System”	2021

3rd International Conference on Communication and Intelligent Systems (ICCIS 2021)	CH. Siva Kumar G. Malleshham, "A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC"	2021
International Conference on Computing, Communication, and Sensor Networks	CH. Siva Kumar G. Malleshham, "A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of Solar PV System"	2021
Dr. N. Susheela		
IEEE IAS Global Conference on Emerging Technologies (GlobConET-2022)	N.Susheela "Carrier based PWM method to evaluate MLI performance using output voltage boost fed induction motor with less device count"	May 20-22, 2022
IEEE sponsored First International Conference on Emerging Trends in Industry 4.0 (2021 ETI 4.0) OP Jindal University (OPJU), Raigarh, India.	M. Hindu Sree Reddy, N. Susheela, P. Malathy, "Sinusoidal Tracking Method for Cascaded Multilevel Inverter Fed Induction Motor Drive"	19 th – 21 st May, 2021
Dr. B. Sirisha		
International Journal of Advances in Applied Sciences(IJAAS), Vol 112, No 2, pp-113-135	B.Sirisha, Akhilesh Saieni, "Single phase Grid Interconnected High Gain Boost Converter with Soft Switching Capability"	June, 2022
Bulletin of Electrical Engineering and Informatics Vol 2, No 2, pp-1168-1178	B. Sirisha, Laxminarayana, "A Mitigation Technique for Torque Ripple in a Brush Less DC Motor by Controlled switching of small DC Link Capacitor"	April, 2022
Bulletin of Electrical Engineering and Informatics Vol 2, No 2, pp-624-635	B. Sirisha, Akhilesh Saieni, "High efficient and high gain boost converter with soft switching capability connected to grid using dq axis current control"	April, 2022
Bulletin of Electrical Engineering and Informatics, Vol 11, Issue 1	Bogimi Sirisha, Mohd Abdul Nazeemuddin, titled "A Novel five Level Voltage Source Inverter Interconnected to Grid with SRF Controller for Voltage Synchronization"	February, 2022

International Journal of Applied Power Engineering (IAPE), Vol.10. No. 4, pp. 364-372	B. Sirisha “A Grid interconnected Nested Neutral point Clamped Inverter with voltage synchronization using SRF controller”	December, 2021
Journal of Emerging Technologies and Innovative Research (JETIR), Issue No: 12, volume.8, pp: f187-f194	B.Sirisha,J.Upendar, V.Aditya Yadav, S.Sreenu, “Three-phase improved cascaded multilevel inverter with multi-carrier sinusoidal pulse width modulation with variable frequency technique for THD reduction”	December, 2021
Journal of Emerging Technologies and Innovative Research (JETIR) Vol 9, Issue 1, pp-b551-ppb555	B. Sirisha, sai Mahesh Kurre, J. Upender “Design and Analysis of a DC-DC Boost Converter with Solar PV module Integrated to Three-Phase Grid using SRF Controller”	January, 2022
Gradiva Review Journal, Vol 8, Issue 2, pp-270-281	Sirisha Bogimi, Manorama Vattoli “Design of High gain Boost Converter for Standalone Applications”	January, 2022
International Journal of Applied Power Engineering, vol. 11, no.1	B.SirishaSapavathSreenu,JallaUpendar, “Analysis of Switched Impedance Source/Quasi-Impedance Source DC-DC Converters for Photovoltaic system”	March-2022
International Journal of Applied Power Engineering, vol. 11, no.1, p-ISSN: 2252-8792,	B. Sirisha, JallaUpendar, S.Ravi, SapavathSreenu “Study and implementation of fuzzy based KY-boost converter for electric vehicle charging”	March-2022
Dr. N. Srilatha		
2nd International Conference on Innovative Research in Engineering and Technology, Vietnam (virtual conference)	N. Srilatha “Distributed Generation Placement Using Voltage Stability Index and Optimal Sizing Using Adaptive Particle Swarm Optimization”	15 th -16 th July, 2022
International Journal of Creative Research Thoughts, ISSN: 2320-2882, Vol. 10, Issue. 3	N. Srilatha, “Optimal Placement of Micro-PMUs in Reconfigurable Smart Distribution System”	March 2022

GIS Science Journal, Vol.8, Issue. 11	N. Srilatha, V. Akhila, “Optimal Placement of PMU With Limited Channels Considering Topology Transformation”	November 2021
International Journal of Electrical Power and Energy Systems, Elsevier, Vol. 128	N. Srilatha, G. Yesuratnam, “Chaotic Darwinian Particle Swarm Optimization for Real-Time Hierarchical Congestion Management of Power System Integrated with Renewable Energy Sources”	January 2021
Dr. G.V. Naga Lakshmi		
Clean Technology Journal, Vol 4, Issue 4	Gubbala Venkata Naga Lakshmi, Askani Jaya Laxmi, Venkataramana Veeramsetty, Surender Reddy Salkuti, “Optimal Placement of Distributed Generation Based on Power Quality Improvement Using Self-Adaptive Lévy Flight Jaya Algorithm”	2022
Electrical Engineering Journal, Springer	GV Naga Lakshmi, A. Jayalaxmi, Venkataramana Veeramsetty, “Optimal placement of distributed generation based on DISCO’s financial benefit with loss and emission reduction using hybrid Jaya-Red Deer optimizer”	December, 2022
Journal of Technology and Economics of Smart Grids and Sustainable Energy”, Springer	G. V. Naga Lakshmi, A. Jayalaxmi, Venkataramana Veeramsetty, “Optimal Placement of Distribution Generation in Radial Distribution Systems using Hybrid Genetic Dragonfly Algorithm”	June, 2021
International Journal of Emerging Electric Power Systems	G. V. Naga Lakshmi, A. Jayalaxmi, Venkataramana Veeramsetty, “Optimal Placement of Distribution Generation based on DISCO’s additional benefit using Self Adaptive Levy Flight based on Black Widow Optimization”	2021
Mrs. E. Sreeshobha		
International Journal of Power Electronics and Drive Systems	Eniganti Sreeshobha, Reddymalla Linga Swamy, “Evaluation of insulated gate bipolar transistor	December, 2022

	valve converter based unified power flow controller reliability and efficiency”	
International Journal of Engineering Research and Applications (IJERA), Volume No. 14, Issue No. 4, ISSN: 2248-9622,	R.Linga Swamy, E.Sreeshobha, M. Rathan pradeep, “Power Optimization of grid connected DFIG wind energy system”	October 2021
BHARET-2022 IEEE at Visakhapatnam, AP	E. Sreeshobha, “Performance Analysis and Comparison of PI Controller and ANN Controller of Bidirectional DC/DC Converter for Hybrid Electric Vehicle System”	7-8 April, 2022
International Journal of Scientific Development and Research (IJS DR), Volume No. 6, Issue No. 9, ISSN: 2455-2631	E.Sreeshobha, R.Linga Swamy, “Relative Analysis of Single-Stage and Two-Stage Energy Storage System Interconnected Solar Power System Performance”	September 2021
Journal of Emerging Technologies and Innovative Research (JETIR), Volume No. 8, Issue No. 9, ISSN: 2349-5162	E.Sreeshobha, R.Linga Swamy, D.Sreeja “Analysis of Solar Energy Storage System Operating Modes with Bidirectional Buck-Boost DC-DC Converter”	September 2021
Journal on Electrical Engineering, Vol 15, Issue 1	E Sreeshobha, E Vidyasagar, “Efficiency and Reliability Evaluation of IGBT Valve Based 48 Pulse Converter UPFC”	July, 2021
Dr. R. Linga Swamy		
i-manager’s Journal on Electrical Engineering, Vol. 15, issue 4.	R.Linga Swamy, R.Somanatham, “Reduction of Common mode voltage for cascaded three-level inverter”	April - June 2022
International Journal of Power Electronics and Drive Systems, vol. 13, Issue 4	Eniganti Sreeshobha, Reddymalla Linga Swamy, “Evaluation of insulated gate bipolar transistor valve converter based unified power flow controller reliability and efficiency”	December, 2022
i-manager’s journal of Electrical Engineering, Volume No. 11, Issue No. 10, ISSN: 0973-8835,	R.Linga Swamy, “Analysis of Selective Harmonic Elimination for Three-phase Voltage/Current Source Inverter”	April - June 2021
International Journal of Engineering Research and Applications (IJERA),	R.Linga Swamy, E.Sreeshobha, M. Rathan pradeep, “Power Optimization of grid connected	October 2021

Volume No. 14, Issue No. 4, ISSN: 2248-9622,	DFIG wind energy system”	
International Journal of Engineering Research and Applications (IJERA), Volume No. 11, Issue No. 12, ISSN: 2248-9622,	R.Linga Swamy, P.Lokender Reddy, M. Sai Kiran, “Simplified SVPWM for Three-Level Inverter Extending Operation into Over Modulation Region”	December 2021
International Journal of All Research Education and Scientific Methods (IJARESM), Volume No. 9, Issue No. 10, ISSN: 2455-6211,	R.Linga Swamy, A. Jyothisna, “Performance Evaluation of FLC Based Three-Phase PWM AC Chopper Drive Using HBCC Technique”	October 2021
International Journal of Scientific Development and Research (IJS DR), Volume No. 6, Issue No. 9, ISSN: 2455-2631	E.Sreeshobha, R.Linga Swamy, “Relative Analysis of Single-Stage and Two-Stage Energy Storage System Interconnected Solar Power System Performance”	September 2021
Journal of Emerging Technologies and Innovative Research (JETIR), Volume No. 8, Issue No. 9	E.Sreeshobha, R.Linga Swamy, D.Sreeja “Analysis of Solar Energy Storage System Operating Modes with Bidirectional Buck-Boost DC-DC Converter”	September 2021
International Journal of Engineering Research and Applications (IJERA), Volume No. 11, Issue No. 10, ISSN: 2248-9622	P.Lokender Reddy, R.Linga Swamy, “Multi Level Inverter THD minimization by Improved Particle Swarm Optimization”	October 2021
Mr. P. Lokender Reddy		
Journal on Electrical Engineering, Vol 16, Issue 1	Chaotic Particle Swarm Optimization with Attractive Search Space Border Points for Optimal Reactive Power Dispatch.	July, 2022
International Journal of Engineering Research and Applications (IJERA), Volume No. 11, Issue No. 12, ISSN: 2248-9622,	R.Linga Swamy, P.Lokender Reddy, M. Sai Kiran, “Simplified SVPWM for Three-Level Inverter Extending Operation into Over Modulation Region”	December 2021
International Journal of Engineering Research and Applications (IJERA), Volume No. 11, Issue No. 10, ISSN: 2248-9622	P.Lokender Reddy, R.Linga Swamy, “Multi Level Inverter THD minimization by Improved Particle Swarm Optimization”	October 2021
Dr. J. Upendar		
Journal of Emerging Technologies and	B. Sirisha, sai Mahesh Kurre, J. Upender “Design and Analysis of a	January, 2022

Innovative Research (JETIR) Vol 9, Issue 1, pp-b551-ppb555	DC-DC Boost Converter with Solar PV module Integrated to Three-Phase Grid using SRF Controller”	
International Journal of Applied Power Engineering, vol. 11, no.1	B.Sirisha SapavathSreenu,JallaUpendar, “Analysis of Switched Impedance Source/Quasi-Impedance Source DC-DC Converters for Photovoltaic system”	March-2022
International Journal of Applied Power Engineering, vol. 11, no.1, p-ISSN: 2252-8792,	B. Sirisha, JallaUpendar, S.Ravi, SapavathSreenu “Study and implementation of fuzzy based KY-boost converter for electric vehicle charging”	March-2022
Mrs. U. Suryavalli		
International Conference on Power Electronics, Drives and Energy Systems (PEDES)	UppuluriSuryavalli, Vaibhav Vivek Deshmukh, V. S. S. Pavan Kumar Hari, “Analytical Closed-Form Expressions for Magnitudes of Voltage Harmonics in a Two-Level Voltage Source Inverter”	14-17 December, 2022

Expert Lectures Delivered by Faculty

- Dr. E. Vidya Sagar has delivered an Endowment Lecture on “Electric Vehicles in a Smart Grid Environment” on 2nd July, 2022 which is organized by the The Institution of Engineers (India), Telangana State Centre
- Prof. B. Mangu contributed as Resource Person in AICTE Training and Learning (ATAL) academy Online Elementary FDP on “Renewable Energy for Industrial & Domestic Applications” from 6th to 10th September, 2021 at JNTU Anantapur College of Engineering Pulivendula.

Achievements / Events Organized by the Department

- BE (EEE) program has been **reaccredited by NBA** for a period of three years from 2022-2025.
- ME (Electrical Engineering) programs Industrial Drives and Controls and Power Systems have been **accredited by NBA** for three years from 2022-2025.
- Prof. Dr. Sukumar Mishra, Professor, Department of Electrical Engineering & Associate Dean, R&D, Indian Institute of Technology, Delhi (IIT Delhi) has **presented a seminar** on Advancements and

Opportunities in the Electrical Engineering Sector on 23rd July, 2022 as a part of IEEE – Lecture Series #18 of IEEE OUCE Power and Energy Society.

- An **expert lecture** by Sri. T. Jagath Reddy, Director, TS TRANSCO on the aspect of “An Overview of Transmission Network in Telangana State” has been organized on 28th April, 2022 in connection with the Foundation Day Celebrations of the Osmania University and Techsonance – 2022.
- Two days National **Technical Symposium** Techsonance – 2022 has been organized during 29th & 30th April, 2022 with Coordinator as Prof. B. Mangu.
- **Essay and debate competitions** have been organized by the department on behalf of the college on VIGILANCE AWARENESS WEEK of POWERGRID corporation of India Limited on 28th October. Two students are selected for essay and four students are selected for debate competitions respectively from different departments to participate in the finals to be held at JNTUH on 30th October, 2021. The faculty coordinators are Prof. M. Manjula, Dr. N. Srilatha and Mr. S. Vijender Reddy.
- Prof. M. Manjula has **chaired a session** at AICTE sponsored International Conference on “Recent Trends in Electrical Electronics Communication and Instrumentation” during 27-28 December, 2021
- Prof. P. Satish Kumar has been **awarded “Engineer of the Year-2022”** by the Institute of Engineers, India on 15.09.2022.
- Prof P. Satish Kumar has been **deputed as Director, Rajiv Gandhi University of Knowledge Technologies, Basar**, w.e.f 17.06.2022
- Dr.N.Susheelahas **organized One Week Induction Programme** for BE First Semester Students of 2021-2022 Batch during 1st to 7th December, 2021 as College Level Coordinator.
- Dr.N.Susheela is **appointed as Public Relations Officer**, University College of Engineering (A), Osmania University for a period of 1 year w.e.f. 15.12.2021
- Prof. Namratha Monohar and Mr. Krishna Murthy of **alumni** of Batch 1982 **donated** Sofa Set to e-Class Room
- Mr. D.V. Phani Chandra, **alumnus** of Batch 1982 **donated** LG AC in mini e-class room

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

Placement Details of 2022-23 batch

Company	Number of Offers
Oracle	1
DXC	2
Infosys	3
Accenture	7
Cognizant	10
Medha Servo Drives	2
TCS	4
Wipro	2
Arcesium	1
Raam Group	1
Deloitte	3
JSW	2
ITC	1
PwC AC	1
Premier Energies	2
GRAND TOTAL	42

Training / Learning Activities of the Department

- **Prof. M. Manjula** has attended IEEE WIE international Leadership Summit on 26th & 27th August 2022.
- **Mr. CH. Siva Kumar** has attended the One Week Hands on Research Oriented Workshop on Design of Experiments organized by Dept. of Mechanical Engineering, Vimal Jyothi Engineering College on 29th August 2022.
- **Dr. N. Srilatha** has attended five days online short term course on “Power Electronic Converters Applications in Microgrid and vehicular Technology” organized by NIT Rourkela during 20th to 24th July, 2022.
- **Mr. R. Linga Swamy, Mrs. E. Sreesobha & Mr. P. Lokender Reddy** have attended a one-week FDP on “Solar PV Partial Shading Mitigation Techniques and Its Applications” from 4th to 8th July, 2022 organized by NIT Goa through Online mode.
- **Prof. B. Mangu** has attended 34 hours online course on “Enabling technologies for Electric Transportation” Organized Malaviya National Institute of Technology, Jaipur from 30th July to 21st September, 2021 under “Scheme for Promotion of Academic and Research Collaboration” program of MoE, Govt of India.
- **Mr. G. Kiran Kumar** has attended AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Smart Energy Systems” from 4th to 8th October, 2021 at Institute of Infrastructure, Technology, Research and Management, Ahmadabad.
- **Mr. G. Kiran Kumar** has attended Sponsored by Hitachi ABB Power Grids, “Communications Characteristics: Availability and Reliability” 2021 protective Relay School PLUS on 28-10-2021.
- **Mrs. E. Sreesobha** has attended online Refresher course organized by Academic Staff College, HRDC, OU from 8th to 26th August, 2021
- **Dr. N. Susheela** attended Two week online Short-Term Training Program on “Emerging Technologies in Electric Vehicles”, Organized by Dept. of Electrical Engineering, Bapatla Engineering College, Bapatla during 2nd August, 2021 to 14th August, 2021
- **Mrs. G. Jhansi Rani**, attended National Level Webinar on “Renewable Energy Technology-Wind” organized by the Department of Electrical and Electronics Engineering in Association with Green Energy Club, IIC & SRM TRPEC IEEE Branch on 03-09-2021
- **Dr. N. Susheela** attended one-week online STTP on “Recent Advances in EV Technologies” organized by Department of Electrical and Electronics Engineering, Matrusri Engineering College during 12th July to 17th July, 2021.
- **Dr. N. Susheela** attended a Two Week Online Short Term Training Programme on “Emerging Technologies in Electric Vehicles”,

organized by Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla during 2nd August to 14th August, 2021.

- **Dr.N.Susheela** attended Online Awareness Program on “DST-FIST: The Prospects” Organized by Dean, Development & UGC Affairs, Osmania University on 21st August 2021.
- **Dr. N. Srilatha** Attended Five-day Online Faculty Development Program on Smart Grid Markets - Key Trends, Challenges and Opportunities during 27th – 31st July 2021 organized by Department of Electrical Engineering in association with Center for Continuing Education, NIT Warangal.
- **Dr. N. Susheela** participated as a Resource Person for “Micro Teaching Evaluation” on 12.1.2022 at Online Faculty Induction Programme organized from 3.1.2022 to 2.2.2022 by UGC-Human Resource Development Centre, Osmania University, Hyderabad.
- **Prof. M.Manjula** and **Dr. N. Susheela** accompanied the students of BE (EEE) VII Semester for Industrial Visit to Bharath Heavy Electricals Limited, Ramachandrapuram, Hyderabad on 11th and 12th March 2022.
- **Mrs. N. Srilatha** Attended one-week online FDP entitled Electrical Distribution System Analysis with Renewable Energy Sources during 12 July – 16 July 2021, organized by Department of Electrical Engineering, National Institute of Technology, Kurukshetra
- **Dr. J. Upendar**, two-day online workshop “Transformation Through NAAC Accreditation Process, A National Level Workshop for Higher Educational Institutions” held on 21st & 22nd June, 2021 conducted by “Institute for Academic Excellence, Hyderabad” in collaboration with “Collegiate Education & Technical Education Department, TS.
- **Mr. G. Kiran Kumar** attended a Webinar on “Developing DC-DC Converter Control in Simulink” on 20-07-2021 conducted by Mathworks, India.

Future Plans of the Department

To establish Research Centers in the field of

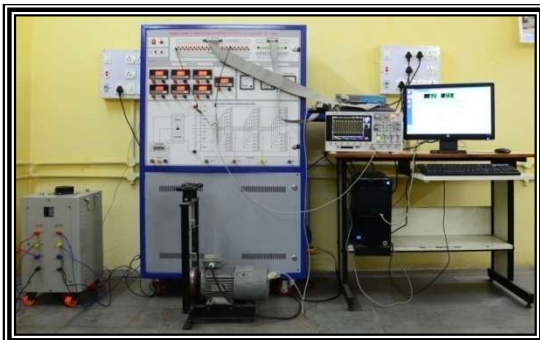
- Power Systems
- Special Electrical Machines
- Power Electronics & Industrial Drives

Research Lab for Multilevel Inverters

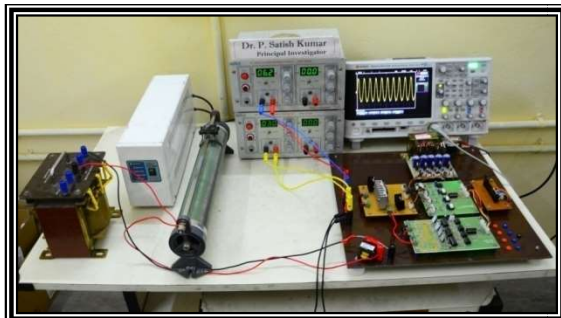
(Established by Dr. P. Satish Kumar)



Three Phase Eleven – Level Cascaded H-Bridge Inverter



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



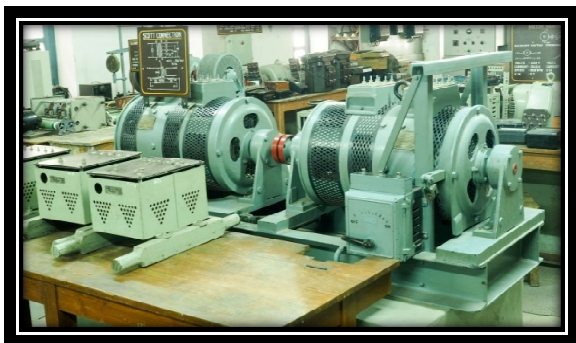
Cascaded Seven- Level Asymmetrical Inverter with Reduced Switches
(Established in Dr. P. Satish Kumar's Research Lab)



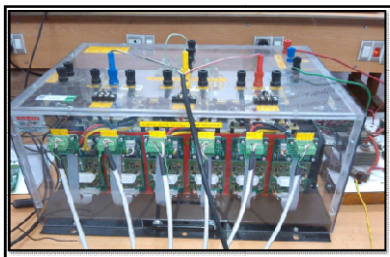
Feeder Protection Unit (Power system Lab)



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****Power Analyzer****Relay Protection Test Set****DSP based Multilevel Inverter
Fed Induction Motor Drive****3 - Level Diode Neutral Clamped Inverter**

DEPARTMENT OF MECHANICAL ENGINEERING

(Accredited by NBA for a Period of 3 Years for U.G Courses from 2022-25)





DEPARTMENT OF MECHANICAL ENGINEERING

Ph.No: 40 2709 7346

Email: med.ouce@gmail.com

Profile:

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

The Department is offering Post Graduate Programmes in Production Engineering, Turbomachinery and Automation & Robotics both in regular/part time. It is also running three P.G Programms in CAD/CAM, Tool Design and Design for 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:

Strengthening of basic concepts in Physics, Chemistry, Mathematics and Engineering Mechanics.

Engineering Drawing Practice.

Design of Mechanical Systems

Manufacturing Technology

Utilization techniques of thermal and other forms of energy.

Industrial Engineering and Management.

Computer languages.

Computer Aided Design and Analysis.








Laboratory Practice to make the students understand the Practical aspects of the theoretical principles taught in the classroom.

Specialized and developing areas (as elective subjects).

Faculty of the Department

Name of the Faculty		Research Specializations	Areas/
	Professors		
	Prof. M. Chandra Sekhar Reddy Ph.D. (IITM) HEAD	Machine Design, Vibrations, Finite Element analysis	
	Prof. P Laxminarayana Ph.D.	Production Engineering, Industrial Engineering, Engineering Research Methodology	
	Prof. SriramVenkatesh Ph.D	Material Handling, CAD/CAM, Advanced Kinematics, Additive Manufacturing Technologies and Applications,	
	Prof. A.Krishnaiah, Ph.D (IIT Madras), Post Doc (South Korea)	Advanced Manufacturing	
	Prof. P.Usha Sri, Ph.D. (IIT-Madras)	Thermal Engineering, Turbo machinery, Computational Fluid Dynamics	
	Prof. P.Ramesh Babu Ph.D (IIT Kharagpur)	Composite Materials, Finite Element Methods	
	Prof. R.Rajendra, PhD	Production Engineering, Metrology & Instrumentation, Robotics using soft computing	
	Prof. B Hadya, Ph.D.	Thermal Engineering, Heat Transfer	

	Prof. K. Saraswathamma, Ph.D.	Production Engineering, micro machining, Finite element Analysis.
	Prof. Narsimhulu Sanke Ph.D	Biomass Energy, Turbomachinery, Thermal Engineering
	Prof. L. Siva Rama Krishna, Ph.D	Production Engineering, Additive Manufacturing CAD/CAM, CIM, 3D PRINTING
	Prof. G. Narendar Ph.D	Thermal Engineering, CAD/CAM
	Prof. V. Uma Maheshwar, PhD	Thermal Engineering, Turbomachinery
Associate Professors		
	Dr. M. V. Ramana Murthy, Ph.D.	Non-Conventional Energy, Heat Transfer
	Dr. T. Nagaveni, Ph.D.	Ceramic Processing, Production Engineering, Material Characterization, Modeling and optimization
	Mr. E. Madhusudan Raju, M.E., (Ph.D)	Automation & Robotics, Control systems

	Dr. TSRV Padmalatha, PhD	Production Engineering, Manufacturing Systems.
Assistant Professors(C)		
	Dr. G Venkateshwarlu M.E, Ph.D	Production Engineering,
	Dr. K. L. UdayKiran M.E, Ph.D	Production Engineering,
	Mr. K Venkateshwarlu M.E, (Ph.D)	Production Engineering,
	Dr. U Ashok Kumar M.E, Ph.D	Advance Design & Manufacturing, Micro Machining, Production Engineering
	Mr. M Prakash M.E, (Ph.D)	Production Engineering;
	Dr. K. Buschaiah. Ph.D (I.E./Scientist)	Production Engineering

Administrative Officers (Department level, college level, university level)

S.No.	Faculty Name	Designation, Office Address	Department/ College/ University Level, Outside
1.	Prof. P Laxminarayana,	Registrar, Osmania University	University Level
2.	Prof. SriramVenkatesh	Principal UCE (A), Osmania University	College Level
3.	Prof.P.Rameshbabu	Chairman, BoS(Global), OU.	College Level
4.	Prof .NarsimhuluSanke	Director of Evaluation, Examcell, UCE,OU	College Level
5.	Prof K Saraswathamma	QIP –Coordinator & Overall time table incharge,BOS (A)	College Level
6.	Prof. L Siva Rama Krishna	Joint Director, Centre for Product Design, Development and Additive Manufacturing, TDC Building, UCE, OU	College Level
		N.S.S Program Officer, Unit-I	College Level
		PMSSS Coordinator, UCE,OU.	College Level
7.	Prof.V.UmaMaheshwar	Director ,Human Capital Development Centre	College Level
8.	Mr E MadhusudanRaju	Warden ,KinnaraHostel,OU	College Level
9.	Dr T Nagaveni	Associate Director,UGC-HRDC-OU	College Level

Research Activities:

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

Major Fields:

- 1) 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

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

Infrastructure:

Equipment/Infrastructure Purchased in the last Academic year:

- Brinell's and Rockwell Hardness Tester worth of Rs. 4.75 Lakhs under TEQIP III grant.
- Renovation of CAD/CAM lab
- Renovation of Automation & Robotics Lab
- Renovation of Committee room

Faculty Achievements

Prof. M. Chandra Sekhar Reddy has been awarded 'Best Engineering Teacher' from Institution of Engineers India on 5th September, 2022 on the occasion of teachers day (former president of India Dr. Sarvepalli Radhakrishnan Birth anniversary)

Awarded by the degree of doctor of philosophy (Ph.D) from Osmania University on 29th Dec 2022 Title- "Parametric Optimization of Taper Cutting Process on AISI D2 Steel using Wire EDM" Supervisor- Prof. G. Chandra Mohan Reddy (Principal, MGIT) Co-Supervisor - Prof. A.M.K.Prasad (Retd. OU)

Workshops/ Seminars/ Training Programmes organized by Faculty/ Department/ College

- Prof.R.Rajendra, Conducted a Two 5-day Workshop on Industrial Robotics for Telangana State Govt Junior College Vocational faculty during 18 to 23 October 2022, and 1-5 November 2022, Coordinator, Dr.R.Rajendra, Dr.L.Siva Rama Krishna, and Mr.E .Madhusudan Raju.
- Dr. Nagaveni Thas successfully coordinated ATAL Online Faculty Development Programme on "Emotional Intelligence" from 08/11/2021 to 12/11/2021.
- Prof..L.Siva Rama Krishna organized Online ATAL AICTE FDP 3D Printing and Design 25-29 October, 2022

Research/ Consultancy Projects (ongoing):

Title of the Project	Coordinators/ Investigators	Funding Agency	Cost in Lakhs of Rs.
Centre for Product Design, Development and Additive Manufacturing (CPDDAM), a 3D Printing Centre of Excellence of OU	Prof SriramVenkatesh Dr L Siva Rama Krishna	RUSA	Rs 5.5 crores
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 MahusudanRaju	UGC	4.5
Advanced high temperature oxidation resistant Titanium aluminideintermetallics with rare earth additions.	Investigator Dr G S Reddy Co-Investigator Prof SriramVenkatesh	DRDO	47.13
Modrobs Project in CAD/CAM Lab	Investigator: Dr L Siva Rama Krishna	AICTE	16.58

Consultancy Projects details from 2017-2021 (5 years)

S.No	Name of Principal Investigator	Funding Agency	Title of the Project	Grant (Rs. in Lakhs)	Ongoing/ Finished
1	Prof. Sriram Venkatesh	RCI, DRDO	Development of Components for Servo System Through 3D Printing Machines Under the scheme Contract for Acquisition of Research Services (CARS), Research Service Provider (RSP)	20.0	Ongoing, 2021- 2023
2	Dr. K Saraswathamma Dr. TSRV Padmalatha	CARS	Simulated & Experimental investigation of stretch forming of AA2014 alloy	Rs 9.98	Ongoing, 2021- 2023

Research Publications/Presentations by the Faculty: (Journals/Conferences/ Books):**Prof. M Chandra Sekhar Reddy**

M Chandra Sekhar Reddy, Study on added damping due to resistive shunting on cantilever, simply supported beam, and effect on the variation of amplitude at resonance, IMechE Part C, Journal of Mechanical Engineering Science, 15th September, 2022.

M Chandra Sekhar Reddy, Modal Analysis of Cancer Cell, Proceedings of the International Conference on Advanced Materials and Computational Methods in Mechanical Engineering (ICAMCMME-2022), pp. 243-248.

M Chandra Sekhar Reddy, "Sensitive Analysis on Added Damping of Shunted Piezoceramic Damping: Cantilever & Simply supported Beam", Journal of Vibroengineering (JVE), December 2022.

K Gurubrahmam , T Ramamohan Rao and M Chandra Sekhar Reddy, Study on prediction of added damping from inclined PZT-5H for bending, torsional modes, Iranian Journal of Science and Technology, Transactions of Mechanical Engineering, Springer Nature.

Prof. P. Laxminarayana

Syeda, Romana, P. Laxminarayana, T. Nagaveni, and Naseeruddin Ahmed. "Tribological characterization of stir-cast hybrid magnesium composite reinforced with Zirconium, Garnet and graphite particulates." In American Institute of Physics Conference Series, vol. 2648, no. 1, p. 030019. 2022.

Muneem, Ahmed Abdul, P. Laxminarayana, and M. ViquarMohiuddin. "Study of Rotating Arc Welding Process for Joining of Pipes: An In-Depth Review." Recent Advances in Materials Processing and Characterization: Select Proceedings of ICMPC 2021 (2022): 297-310.

Sekhar, N. Chandra, and P. Laxminarayana. "Enriched algorithmic approach for classification and recognition of part families for medium scale industries." In AIP Conference Proceedings, vol. 2358, no. 1, p. 100016. AIP Publishing LLC, 2021.

Sekhar, N. Chandra, and P. Laxminarayana. "Reference based dimensions prediction (RDP) system for identifying materials of part families." Materials Today: Proceedings 46 (2021): 831-837.

Prof. RegaRajendra

M Nirish,RRajendra, Optimization of Process Parameter and Additive Simulation for Fatigue Strength Development by Selective Laser Melting of

AlSi10Mg Alloy International Journal of Mechanical Engineering 7(2)
3795-380221

M Nirish, RRajendra, Heat Treatment Effect on the Mechanical Properties of AlSi10Mg Produced by Selective Laser Melting Journal of Mechanical Engineering Research and Developments 45(2)19-28, 1.8

M Nirish, RRajendra, Effect of Heat Treatment on Wear Characterization of AlSi10Mg Alloy Manufactured by Selective Laser Melting Journal of Mechanical Engineering Research and Development 45(2) Oct-181.8

M Nirish, R Rajendra Additive Simulation and Process Parameter Optimization for Wear Characterization Development by Selective Laser Melting of AlSi10Mg Alloy Journal of Characterization 2(2)103-116 2.2

M Nirish, R Rajendra Additive Layer by Layer Simulation and Taguchi Loss of Function for AlSi10Mg Alloy Samples Manufactured by Selective Laser Melting International Journal of Mechanical Engineering, 7(5)765-7702.1

M Nirish, R Rajendra Fatigue Performance Improvement of AlSi10Mg Manufactured by Selective Laser Melting through Heat Treatment Journal of Mechanical Engineering Research and Developments 45(3) Jan-13 1.8

M Nirish, R Rajendra Selective laser melting process parameter simulation and topology optimization by aerospace component of AlSi10Mg alloy AIP Conference Proceedings, 12648, 1.6

R Rajendra, M Nirish, B Karolla; Laser Powder Bed Fusion Process Optimization of AlSi10Mg Alloy Using Selective Laser Melting: Dynamic Performance of Fatigue Behaviour, Microstructure, Hardness and Density Journal of Mechanical Engineering (JMEchE) 2(1)1-20, 1.8

Md Anwar, MuddaNirish, R.Rajendra "Microstructure and Mechanical Properties of Al5052 –SS304 Dissimilar Weld Lap Joint by Pulsed Cold Metal Transfer Process Microstructure and Mechanical Properties of Al5052 – SS304 Dissimilar Weld Lap Joint by Pulsed Cold Metal Transfer Process "Journal of Mechanical Engineering Research and Developments, 45 (3)111-1231.8

M Nirish, R Rajendra Optimization Process Parameter on Wear Characterization of Al6061 and AlSi10Mg Alloy Manufactured by Selective Laser Melting International Journal of 3D Printing and Additive Manufacturing 2(1)1-1

Dr. L. Siva Rama Krishna

R. Swetha, L. Siva Rama Krishna, B.HariSaiKiran, P.Ravinder Reddy, SriramVenkatesh, “Comparative study on life cycle assessment of components manufactured by Additive and Conventional Manufacturing process” Materials Today: Proceedings, Elsevier Publications, Volume 62, Part 6, 2022, Pages 4332-4340, <https://doi.org/10.1016/j.matpr.2022.04.84>.

G. Prakasham, L Siva Rama Krishna, A.Seshu Kumar, J. Kandaswamy, “Process Parameter Optimization in pulsed current GTA Welding Process on ASTM 106 Grade – B Steel Pipes”, International Journal of Mechanical Engineering, Vol.6, No.3, October – December, 2021. ISSN:0974-5823

G. Prakasham, L Siva Rama Krishna, A.Seshu Kumar, J. Kandaswamy, “Microstructure Characterization and Mechanical properties of 2.25Cr-1Mo steel pipes using pulsed current GTAW”, Materials Today: Proceedings, 2214-7853, 2022 <https://doi.org/10.1016/j.matpr.2022.04.642>

G. Prakasham, L Siva Rama Krishna, A.Seshu Kumar, J. Kandaswamy, “Optimization of Pulsed TIG Welding process parameters on 2.25 Cr- 1Mo Steel pipe using Multivariate Linear Regression”, Compliance Engineering Journal, Vol.13, Issue 1, 2022. ISSN No. 0898-3577

Krishna Murty Dora. H, Siva Rama Krishna. L, Ravinder Reddy. P, “Enhancement of safety and productivity all the way through function of ergonomics principles – A case study”, Materials Today: Proceedings, Vol. 64, pp. 212-219, 2022.

Krishna Murty Dora. H, Siva Rama Krishna. L, Ravinder Reddy. P, “Productivity and Safety Improvement in Industry Using Ergonomics—A Case Study”, Lecture Notes in Mechanical Engineering, Springer, Singapore. https://doi.org/10.1007/978-981-19-5347-7_1

Prof .G.Narendar

G.Narendar, TejoSatyaCharishma, CFD Study on the Effect of Nanofluids in Natural Circulation Loop with a Side Heater, Elsevier’s Materials Today: Proceedings, 49 (2022) 2116–2123

Conference presentations:

CFD Investigation on Lift and Drag Coefficients on a Car at various Angles of Rear Diffuser, International Conference on “Contemporary Innovations in Mechanical Engineering” (CIME-2022), Organised by Rajeev Gandhi Memorial College of Engineering and Technology, Andhra Pradesh, 22nd - 23rd April, 2022.

Tensile behaviour of Natural Fibre Epoxy Composites, International Conference on “Contemporary Innovations in Mechanical Engineering”

(CIME-2022), Organised by Rajeev Gandhi Memorial College of Engineering and Technology, Andhra Pradesh, 22nd -23rd April, 2022

Dr.T.Nagaveni

Thallapalli, Nagaveni, and S. V. S. N. D. L. Prasanna. "Prediction of Solar Radiation Using Data Driven Models." Journal of Physics: Conference Series. Vol. 2332. No. 1. IOP Publishing, 2022.

Syeda, R., Laxminarayana, P., Nagaveni, T., & Ahmed, N. (2022, November). Tribological characterization of stir-cast hybrid magnesium composite reinforced with Zirconium, Garnet and graphite particulates. In AIP Conference Proceedings (Vol. 2648, No. 1, p. 030019). In American Institute of Physics Conference Series

Padmalatha, T. S. R. V., Nagaveni, T., Saraswathamma, K., Dinesh Kumar Reddy, T., & Ravali, O. (2022, November). Optimization of die sink EDM process parameters for the titanium alloys Ti6Al4V & Ti5553. In AIP Conference Proceedings (Vol. 2648, No. 1, p. 030021). In American Institute of Physics Conference Series

Dharavath, I., Naik, S. S., & Nagaveni, T. (2022). Analysis Study of Textile Industries Waste Water Generation and Their Chemical Bond Through Hybrid Waste Water Treatment System. Journal of Optoelectronics Laser, 41(7), 792-797.

S. V. S. N. D. L. Prasanna And NagaveniThallapalli, "Application Of Data Driven Model for Prediction and Estimation of Evapotranspiration – A Case Study" Advances And Applications In Mathematical Sciences 21(6), Pages 3563-3575, 2022.

Conference Proceedings:

Syeda, R., Laxminarayana, P., Nagaveni, T., & Ahmed, N. (2022, November). Tribological characterization of stir-cast hybrid magnesium composite reinforced with Zirconium, Garnet and graphite particulates. In AIP Conference Proceedings (Vol. 2648, No. 1, p. 030019). In American Institute of Physics Conference Series

Padmalatha, T. S. R. V., Nagaveni, T., Saraswathamma, K., Dinesh Kumar Reddy, T., & Ravali, O. (2022, November). Optimization of die sink EDM process parameters for the titanium alloys Ti6Al4V & Ti5553. In AIP Conference Proceedings (Vol. 2648, No. 1, p. 030021). . In American Institute of Physics Conference Series

Presented paper in Conferences:

NagaveniThallapalli Presented The Paper Entitled Application Of Data Driven Model For Prediction And Estimation Of Evapotranspiration – A Case Study In International Conference on Innovation and Application in Science & Technology Organized by Department of Applied Sciences Galgotias College of Engineering and Technology Greater Noida, U.P, India during December 21-23, 2021

NagaveniThallapalli presented a paper titled “ Design and Analysis of Hydraulic Machining Fixture for a Drifter Bit of a Top Hammer” in 3rd International Conference on Intelligent Manufacturing and Energy Sustainability” organized by Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology, Hyderabad during June 18-19, 2021

NagaveniThallapallipresented a paper titled “ Design and Analysis of Progressive Tool for a Glass Bracket” in 3rd International Conference on Intelligent Manufacturing and Enerygy Sustainability” organized by Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology, Hyderabad during June 18-19, 2021

Dr. TSRV Padmalatha

Padmalatha T S R V , Nagaveni T , Saraswathamma K, Dinesh Kumar Reddy T, RavaliOeOptimization of Die Sink EDM Process Parameters for the Titanium Alloys Ti6Al4V & Ti5553 , AIP conference proceedings,

Dr.K.L.UdayKiran

Dr.K.L.UdayKiran,P.Akhila, K.Saraswathamma and S.Satyanarayana, “Effect of Aluminium Powder Mixed Vegetable Oil and Silver Coated Copper Electrode on Electrical Discharge Machining of Inconel 718”, 37th Indian Engineering Congress 2022, Role of Engineers for Creating a Sustainable and Self Reliant India, Chennai 16th – 18th December 2022, IEC/2022/166/MC14.

Dr.K.L.UdayKiran,P.Akhila, K.Saraswathamma and S.Satyanarayana, “Study of Mechanical Properties, Microstructure and Wear Behaviour of AL 6061 Metal Matrix Composite Reinforced with AISI 1060 Steel Chips”, 37th Indian Engineering Congress 2022, Role of Engineers for Creating a Sustainable and Self Reliant India, Chennai 16th – 18th December 2022, IEC/2022/167/MC15.

Conference presentations:

Presented following two papers in “37th Indian Engineering Congress” organized by Institution of Engineers to be held in Chennai during 16th – 18th December 2022

Dr.U.Ashok Kumar

Experimental Investigation on AA-2024 Coating over Low Carbon Steel by Friction Surfacing Deposition Process. , High Technology Letters 28 (4), 551-558,2022

Experimental Investigation and Optimization of Die sinker EDM Process Parameters on Inconel-625 alloy. International Journal for Advanced Research In Science & Technology Vol. 11 pp167-172, 2022

Analysis of Microstructural Features and Corrosion Resistance of Cryogenic Burnished and Hydroxyapatite Powder Burnished Titanium Alloy. In: Reddy, A.N.R., Marla, D., Favorskaya, M.N., Satapathy, S.C. (eds) Intelligent Manufacturing and Energy Sustainability. Smart Innovation, Systems and Technologies, vol 265. Springer, Singapore. https://doi.org/10.1007/978-981-16-6482-3_57

International and National Conferences organized by department/college**List of Presentations in International Conference by Faculty:****List of Books / chapters/Proceedings Published by Faculty during 2017-2021 (5 years)**



Guest Lecturers , Key Note Lectures delivered, and Session Chairby Faculty in other institutes, industry, platforms:

Workshops/ Seminars/ Training Programmes attended by Faculty (both offline, online) :

S.No.	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
1	Prof. L. Siva Rama Krishna	Government officers training on Industrial Training in Additive Manufacturing and its Applications	Online	21-02-2022 to 03-03-2022	Future Skills Prime Programme Sponsored by MEIT and C-DAC Hyderabad
2	Dr.K.L.UdayKiran	one month online faculty induction program	Online	02-12-2022 to 31-12-2022.	UGC-HRDC, Osmania University
3	Dr.G.venkateshwarlu	one month online faculty induction program	Online	02-12-2022 to 31-12-2022.	UGC-HRDC, Osmania University
4	Dr.K.L.UdayKiran	one month online faculty induction program	Online	02-12-2022 to 31-12-2022.	UGC-HRDC, Osmania University
5	Mr.M.Prakash	one month online faculty induction program	Online	02-12-2022 to 31-12-2022.	UGC-HRDC, Osmania University



Guest Lectures Delivered by the Faculty

Faculty	No.of Guest Lectures delivered
Prof. SriramVenkatesh	
Prof P Laxminarayana	
Prof P Ramesh Babu	
Dr. V.UmaMaheshwar	
Dr. L Siva Rama Krishna	07
Dr T Nagaveni	01

S.No	Faculty Name	Details of Lecture	Name of Organization	Date
1	Prof. L. Siva Rama Krishna	Topic “Case studies on Innovative Applications of 3D Printing” in the one-week ATAL AICTE Sponsored Online FDP on “3D Printing and Design” held during 25-29 October, 2021.	Department of Mechanical Engineering, UCE,OU & CPDDAM, OU	26-10-2021
2	Prof. L. Siva Rama Krishna	Topic “Demo Session on FDM, SLA and 3D Scanner” in the one-week ATAL AICTE Sponsored Online FDP on “3D Printing and Design” held during 25-29 October, 2021.	Department of Mechanical Engineering, UCE, OU & CPDDAM, OU	29-10-2021
3	Prof. L. Siva Rama Krishna	Topic “Innovative Applications of 3D Printing & its Sustainability Aspects” on 16-09-2021 in the three day continuous professional	ESCI and CPDDAM, ou	16-09-2021



S.No	Faculty Name	Details of Lecture	Name of Organization	Date
		development programme on “Metal Additive Manufacturing and its Applications” held during 15-17 September, 2021		
4	Prof. L. Siva Rama Krishna	Topic “Demo Session on FDM, SLA and 3D Scanner” one-week online STTP on “3D Printing for Sustainable Development” held during 25-30 October, 2021	UGC HRDC Centre JNTUH & NNRG, Hyderabad	30-10-2021
5	Prof. L. Siva Rama Krishna	Topic “Innovative Applications of 3D Printing” one-week AICTE Sponsored Online STTP on “Additive Manufacturing of Nano-Composites” during 23-27. August, 2021	Department of Mechanical Engineering, Institute of Road and Transport Technology, ERODE, Tamilnadu	26-08-2021
6	Prof. L. Siva Rama Krishna	Topic, “Medical Applications of Additive Manufacturing” the ATAL AICTE Sponsored online FDP on 3D Printing and Design, held during 10-14, Jan, 2022	Department of Mechanical Engineering, DIAT, Pune	11 Jan, 2022
7	Prof. L. Siva Rama Krishna	Topic “Case Studies on Innovative Applications of Direct Digital Manufacturing” one-week AICTE Sponsored Online FDP on “Research Aspects of Powder Metallurgy Based Direct	Department Of Mechanical Engineering, MEPCO Schlenk Engineering College, Sivakasi	14-10-2020



S.No	Faculty Name	Details of Lecture	Name of Organization	Date
		Digital Manufacturing held during 12-17 October, 2020		
	Dr.T.Nagaveni	a Resource Person at the ONLINE 2nd FACULTY induction	PROGRAMME organized by UGC-HRDC Osmania University, Hyderabad	1.12.2021 to 31.12.2021 Indispensable Research Tools 16.12.2021

Ph.Ds awarded by the MED, UCE, OU during the Academic year 2022-23

SNo	Name	Supervisor	Title
1	Mr. M.Nirish	Prof. R. Rajendra	Experimental and Additive Simulation on Mechanical properties of AlSi10mg parts manufactured by SLM process



LIBRARY FACILITIES

The Department Seminar Library has the following

S.No	Details	Quantity
1	Text Books	120
2	Ph.D. Thesis	12
3	ME Project reports	100
4	B.E Project reports	60
5	IAP Reports	-
6	Lecture Notes	-
7	General Seminar Reports	-
8	CDs	-
9	Old Bound Journals	-

Students Info

Efficycle-2021:

A team of 13 members, led by B Sahithi, 6th Semester, Mechanical Engineering Department, UCEOU; has been formed for the Efficycle Competition conducted by SAE NIS. The competition required the team to design and conceive a 3-wheeled Hybrid Electric Vehicle. The team submitted all the required design reports and gave a presentation in October 2020. The team successfully completed all the tasks and secured 17th rank. 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 January 2021, a team (Invincibles 4.0) of eleven students including 2nd and 3rd year students represented the department. They designed and Fabricated the efficycle at the garage facility available at the department. The team consisted of K Abhinava Karthikeya, Ankitha Kadem Syed Sufuyan, Syed Mohammed Yasin, DAKOJU SAILAJA, Surya Teja Kondeti, Mahammed Arshiya, Gaurav Krishna, Chinthapally sharan, Pratik kalyani, C. Bharath, Vani Kalyani, Pujitha.Goskula. The event was organized by SAE India and conducted at lovely professional university, Punjab.

BAJA 2022

A team of 28 members, led by M Hrishikesh, 4th Semester, Mechanical Engineering Department, UCEOU; has been formed for the BAJA Competition conducted by SAE India. Phase 1 of was scheduled on Sep 4th 2021. In which we were supposed to present the project plan, Design, subsystem research, subsystem parameters, DVP & DFMEA with some basic CAE analysis. We have completed our Phase-1 and secured 45th Rank out of 138 M-Baja teams and secured 1st position in Telangana state. Preparations

for Phase 2 (Virtual Baja) and Phase 3 (Physical event) are going on. As of now, we are trying to complete the necessary reports on time and begin fabrication of the vehicle for phase 3 Baja 2022 in 1st week of November.

Aero Design Challenge:

3 teams (1 Regular & 2 micro) were formed for SAE ISS Aero Design Challenge each headed by P Varshith, B Sahithi & U Vaishnavi, 6th Semester, Mechanical Engineering, UCEOU. The competition required the team to design and conceive a fixed wing UAV. Each team submitted an Application Report, a Fabrication report and a Design Report followed by a presentation in June 2021. The 3 teams secured 21, 24 and 25 ranks respectively.

Bicycle Design Competition:

A team of 7 members, led by T Sai Rohith, 6th Semester, Mechanical Engineering Department, UCEOU; has been formed for the Bicycle Design Competition conducted by SAE ISS. The team has to undergo a workshop due to be conducted in Oct-Nov followed by fabrication of a bicycle that will compete in the main event due to be conducted in January 2022.

ETWDC:

A team of 10 members, led by Sohan Lal Choudary, 8th semester, EEE Department, UCEOU has been formed for Electric 2-Wheeler Design Competition conducted by SAE ISS. The competition required the team to design and conceive an electric 2-wheeler vehicle. The team successfully completed all the tasks and secured 1st position in Business Strategy and 4th rank overall.

Student's achievements and higher studies

Student Name	University Joined
sakethsubba	Univesrity Texas A & M
Vineeth	Univesrity Texas A & M
Niharika	North Carolina state University
Pawanvenkat	University of Delaware
divya	University Texas A & M
kavya Geetika	University of California
Haritha	University of Maryland
Shashank	Arizona State University
Renu Reddy	University of Pennsylvania
Sandeep	Univesrity Texas A & M
GATE 2021 scores	

Prasanth	540
Giridhar Raju	1016
Anwar	1785
Giridhar Raju	168 (Engineering Science)
Anwar	282 (Engineering Science)

FUTURE PLANS

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



Variable Compression Engine test rig



Twin cylinder 4 stroke diesel engine test rig



Multi cylinder 4 stroke petrol engine test rig



Air Compressor Test Rig

MECHARENA-2022 Inaugural & Events



BHEL Hyderabad --Student Industrial Visit



Alumini Meet 2022

MINING ENGINEERING

University College of Engineering (A)

Osmania University, Hyderabad 500007

Introduction

The University College of Engineering (UCE), Osmania University hosted the Department of Mining Engineering in the past. The Department of Mining Engineering with an intake of 25 seats for BE started in 1956 and existed till 1977-78 in the present campus. In the year 1978, it was shifted to Kothagudem, the headquarters of The Singareni Collieries Company Limited (SCCL) and then renamed as Kothagudem School of Mines (KSM). Till 1993-94 the Kothagudem School of Mines was affiliated to UCE, OU. However, from 1994 onwards the affiliation shifted to Kakatiya University. The Mining fraternity, particularly the alumni of the Department of Mining Engineering, UCE, OU again requesting to start the Mining Engineering Programme at the UCE campus.

Therefore, during the centenary celebrations of Osmania University, a favourable decision was taken to re-establish the Mining Engineering Programme in the College of Engineering. Initially, in 2018-19, the ME-Mining Engineering as a self-financed programme started with an intake of 18 students under the coordination of the Department of Civil Engineering, UCE, OU.





Considering, the employment opportunities and the interest and commitment of the mining engineering alumni association, a proposal (Detailed Project Report - DPR) to restart the Department of Mining Engineering was floated. The DPR was approved by the Standing Committee of Academic Senate. Therefore the proposal to establish the Department of Mining Engineering with an intake of 60 BE Mining Engineering students, initially under self-finance mode is approved. The admissions were commenced in the academic year 2021-22, through TS-EAMCET.

Presently, under Mining Engineering department, one BE program with an intake of 60 alongwith one ME program with an intake of 18 students in Mining Engineering specialization in Regular and CEEP mode.

Faculty Details

The Department of Mining Engineering is being headed by Prof. Sriram Venkatesh and Faculty members Dr. M. S. Venkataramayya, Mr. M. Satish Kumar and Mr. E. Srinivas. Both Mr. M. Satish Kumar and Mr. E. Srinivas are Mining Executives at the SCCL, and currently extending their

support to the Department of Mining Engineering under Industry-Academia collaboration in Mining Engineering.

Faculty member		Areas of Teaching and Research
Head of Mining Engineering Department		
	Prof. Sriram Venkatesh (Emp. ID- 51025) Ph.D (Osmania University) (PRINCIPAL, UCE, OU)	CAD/CAM, Materials Handling, Machine Design, Additive Manufacturing
Faculty (Industry-Academia collaboration in Mining Engineering)		
	Mr. M. Satish Kumar (Addl.Manager, M/s SCCL) (Emp. ID- 742) B.E/KU, M.Tech/VNIT, (PhD-NITK)	Mine Planning & Designing, Rock Slope Engineering, Slope Stability & Monitoring, Slope Stabilization, Rock Excavation and Rock Mechanics.
	Mr. E. SRINIVAS (Addl.Manager, M/s SCCL) (Emp. ID- 768) B.E/KU, M.Tech/OU	Rock mechanics, Slope stability, Mine Environmental Engineering, Mine Planning & Designing.
Guest faculty (Alumni-Academia collaboration in Mining Engineering)		
	Dr. MS Venkataramayy, PhD, Prof. MREC, HYD, Retd. GM, SCCL	Longwall Mining, Underground Coal Mining and Metal Mining, Mine Environment.

Publications:

1. Sathish Kumar M, Ram Chandar Karra and Srinivas E (2022), **“Applications of Wireless Sensor Network for Displacement Monitoring in Opencast Coal Mine slopes”**, International Symposium on Recent Trends in Mineral Industry, University College of Engineering, Osmania University, Hyderabad, during 23 - 24 September 2022 - **Accepted on 16th August 2022.**
2. Sathish Kumar M and Ram Chandar Karra (2022), **“Development of an Alert System in Slope Monitoring using Wireless Sensor Networks and Cloud Computing Technique –A Laboratory experimentation”**, International Symposium on Recent Trends in Mineral Industry, University College of Engineering, Osmania

University, Hyderabad, during 23 -24 September 2022 – **Accepted on 17th August 2022.**

3. Sathish Kumar M and Ram Chandar Karra (2022), “**Applications of IoT in Slope Monitoring in Opencast Mines – A Critical Review**”, International Symposium on Recent Trends in Mineral Industry, University College of Engineering, Osmania University, Hyderabad, during 23 -24 September 2022 – **Accepted on 17th August 2022.**
4. Sathish Kumar M and Ram Chandar Karra (2022), “**An Alert System for Monitoring Opencast Coal Mine Slopes using Wireless Sensor Networks**”, “One day all India Seminar on Technological Developments in Coal Mining Industry for a Sustainable Mining” Kothagudem, on 19th November 2022 – **Accepted 5th Nov 2022.**
5. SRINIVAS E, SATHISH KUMAR M, SURYANARAYANA K, DR MS VENKATA RAMAYYA & CHANDRASEKHAR S, 2022, “**SLOPE STABILITY ANALYSIS BY USING LIMIT EQUILIBRIUM METHOD IN OPENCAST COAL MINE- A CASE STUDY**”, INTERNATIONAL SYMPOSIUM ON RECENT TRENDS IN MINERAL INDUSTRY, UNIVERSITY COLLEGE OF ENGINEERING, OSMANIA UNIVERSITY, HYDERABAD, DURING 23 -24 SEPTEMBER 2022 – **ACCEPTED ON 16TH AUGUST 2022.**

CONFERENCES / WORKSHOPS / SEMINARS / TRAININGS ORGANIZED BY FACULTY

Faculty Name	Title	Venue	Dates	Sponsored by
Dr. M.S Venkataramayya & Mr. M Sathish Kumar	Organised the Webinar on “Mine Economics & Investment” as part of Diamond Jubilee Celebrations of Mining Engineering University College of Engineering, Osmania University	Online	7 th Feb’2021.	--
	Workshop on ANSYS Software & Its Applications in Geotechnical Domain	Online	14-19 th June 2021	Certification Programm
	Online Continuing Professional Development Programme on “Application of IoT and Smart Sensors in Mining”	Organised by ESCI Hyd	15–17 July, 2021	--

Faculty Name	Title	Venue	Dates	Sponsored by
	Workshop on “Industry-Academia Interaction in Mining Industry”	Offline – Golkonda Hotel, Hyd	07 th Sep2021	NMDC Ltd
Prof. Sriram Venkatesh, Dr. MS Venkataramayya Mr. M Sathish Kumar & Mr. E. Srinivas	Organized the Two Days International Symposium on Recent Trends in Mineral Industry	Organized by AAUCE, OU AMEA(OU&KU), Dept of Mining, UCE, OU.	23rd & 24th September, 2022	AMEA, (OU&KU) & Industries
Prof. Sriram Venkatesh, Mr. M Sathish Kumar & Mr. E. Srinivas	Lecture series #7 on CM Methods and Underground Coal Mine Mechanization by Prasenjit Maity, National head, OE Sales, Joy Global, Komatsu.	Organized by ARC, UCE, OU & Dept of Mining, UCE, OU.	20th December, 2022	ARC, UCE, OU

Workshops / Seminars / Trainings / Courses attended by Faculty

Faculty Name	Title	Venue	Dates
Mr. M Sathish Kumar	One Week National E-Workshop on Slope Stability & Stabilization Methods In Open Pit Mines	Online- National Institute of Technology Karnataka, Surathkal Department of Mining Engineering	8 – 12 th February 2021
	Online Continuing Professional Development Programme on “Design & Optimisation of Blasting	Online-Organised by ESCI Hyd.	28-30 th June 2021.
	Two-week online summer school on Machine and deep learning for remote sensing applications	Online- NITK Surthkal.	5-16 th July 2021
	Planning of Surface Mining Projects (FDP) National Institute of Technology	Online- Department of Mining Engineering, Karnataka, Surathkal	23-27 th August 2021
	Two weeks training on IoT and Amazon AWS	Online- Finland labs	9-20 th August 2021
	National Online Faculty Development Programme on “Rock Mechanics Application in Mining and Allied Industries”	Online - Department of Mining Engineering, Dr. T. Thimmaiah Institute of Technology,	21 st to 26 th Jan 2022.

Faculty Name	Title	Venue	Dates
		Oorgaum, KGF.	
Mr. E. Srinivas	Online Elementary FDP on "Planning of Surface Mining Projects"	Online - National Institute of Technology Karnataka Surathkal.	23 rd to 27 th August 2021.
	Online certification program on "ANSYS Software & Its Applications in Geo-Technical Domain"	Malla Reddy Engineering College (A) in association with IEI & MEAI, Hyderabad chapter.	
	Virtual Faculty Development Program on "Role of Engineers in Mineral Exploration & Mining"	Online - Department of Mining Engineering, AMET Deemed to be University, Chennai	3 rd to 8 th Jan 2022.
	Online short-term course on "Machine Learning with Python for Beginners"	Department of CSE, NIT Warangal in association with Centre for Continuing Education	20 th Dec, 2021 to 3 rd Jan 2022.
	National Online Faculty Development Programme on "Rock Mechanics Application in Mining and Allied Industries"	Online - Department of Mining Engineering, Dr. T. Thimmaiah Institute of Technology, Oorgaum, KGF.	21 st to 26 th Jan 2022.
	Two days offline cum online seminar on "Advanced Software's in Blasting Technologies"	Malla Reddy Engineering College (A) in association with STRAYOS Software, USA	25 th & 26 th April, 2022

Humanities & Science Building




	
<p>Dr.K.Phaneendra Head, Department of Mathematics</p>	<p>Dr. Ch.Srinivas Head, Department of Physics</p>
	
<p>Dr. P. Sarita Rajender, M.Sc., Ph.D. Head, Department of Chemistry</p>	<p>Dr. Saveen Sauda Head, Department of English</p>
	
<p>Dr. B. Sunil Kumar, Director, Dept. of Physical Education.</p>	

DEPARTMENT OF CHEMISTRY

Phone No.: 040-27682381

The Department of Chemistry was established in the College of Engineering way back in 1961, to cater to 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, there was rapid development of the applications of Chemistry directly or indirectly in all engineering fields. 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.

Faculty Details

Faculty	Areas of Teaching and Research
<div></div> <div>Dr. P. Sarita Rajender, M.Sc., Ph.D. Head, Asst. Professor</div>	Spectroscopy, Polymer Chemistry , Natural products and Medicinal Chemistry
Assistant Professors (Contract)	
<div><div>Photo</div><div>Mrs. V. Vani</div></div>	
<div><div>Photo</div><div>Mrs. G. Sujatha</div></div>	

	<div data-bbox="226 157 405 306" style="border: 1px solid black; text-align: center; padding: 20px;"> Photo </div> <div data-bbox="226 306 405 362" style="text-align: center;"> Mrs. P. Reshma </div>		
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The faculty members, apart from their regular teaching, are also carrying out the research work and publishing papers regularly in national and international journals. The faculty members have published about 20 research papers. Dr. P. Sarita Rajender is actively involved in guiding Research work leading to Ph.D in the field of Drug Design and Discovery techniques. Department has purchased Atomic Absorption Spectroscopy under TEQIP Phase I.

Dr. P. Sarita Rajender has 32 publications in the field of Identification of new chemical entities by In-silico techniques, synthesis and biological screening in peer reviewed International Journals. She has attended more than 40 conferences and has participated as resource person in various conferences and seminars. Presently six scholars are pursuing their Ph.D. programme under her supervision. Two of her students were awarded Ph.D degrees. She has five patents to her credit and two of them have been granted in the field of cancer and T. B.





Laboratories in the Department: Three (03) Laboratories: (i)Chemistry Lab-I, (ii)Chemistry Lab-II and (iii)One Research Lab.

Infrastructure:

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

DEPARTMENT OF MATHEMATICS**Ph.No: 8331040958**

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 according to AICTE norms, so as to cater the needs of all engineering Departments, both at undergraduate and postgraduate levels.

FACULTY		RESEARCH SPECIALIZATION
Senior Assistant Professor , Head & BOS Chairman		
	Dr.K.RameshBabu, Head & BoS Chairman, M.Sc ; Ph.D (Applied Mathematics)	Fluid Dynamics, MHD , Heat and Mass Transfer, Finite Difference and FEM
Professor		
	Dr.Y.Rameshwar M.Sc., M.Phil.,Ph.D.	Hydrodynamic and Hydromagnetic Stability, Ferrohydrodynamic convection, Convection in Electrohydrodynamics, Nonlinear Dynamical systems.
Assistant Professors (Contract)		
	Dr. P. Thirupathi M.Sc.,B.Ed.,Ph.D.	Fourier Optics
	Mr. Rama LingaiahKadari M.Sc.,B.Ed, M.Phil, (Ph.D)	Functional Analysis

Educational Programmes:

The Department offers threemathematics papers to the students of all branches of engineering at U.G. level to providsufficient 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. Department of Mathematics is highly useful for the all the Engineering branches and helping the BE, ME students and faculty members for their research need.

Research Activities:

The staff members of the Department are actively engaged in research in the areas of Functional Analysis, Numerical Analysis, Numerical methods for a class of boundary layer problems, Magnetohydrodynamics, Ferrohydrodynamics convection, Nonlinear Dynamical systems, Perturbation methods, Fourier Optics and Fluid Mechanics. Some of the staff members have published research papers in well-reputed International/National Journals, presented research papers and had given keynote addresses and invited talks in National conferences and seminars. The Department organizes short term courses and Faculty Development Programs for the benefit of staff members, research scholars, and students.

Y. Rameshwar

- a) Attended an international GIAN course on “Magnetohydrodynamics in the Light of Astrophysical Dynamos Analytic, Asymptotic and Numeric Applications”, 19-29 Sept. 2022 (Online)
- b) Attended Women leadership conclave, IIT Khargpur, 26-27, Nov. 2022 (Off line)
- c) Attended an international conference ISTAM-2022, during 14-16, Dec. 22 at IIT Mandi, Himachal Pradesh (Offline).

Research Publications:

“Convective Instabilities in Binary Mixture 3He - 4He in Porous Media” Y. Rameshwar, G. Srinivas, D. Laroze, M. A. Rawoof Sayeed, H. P. Rani, Chinese Journal of Physics, 2022, 3.237, SCI journal
Finite Amplitude Cellular Thermohaline, M.A. Rawoof, Sayeed, Y. Rameshwar, Journal of Heat Transfer, Nov. 2022, 2.02, SCI Journal

EC Member

Executive Committee (EC) member of Indian Society Theoretical and Applied Mechanics (ISTAM) society for the academic years 2021-2023, IIT Khargpur.

Selection Committee member

Selection Committee member, Aurora's post graduate college, (Affiliated to Osmania University), for the academic years 2021-2023, Nampally, Hyderabad.

Reviewer: Guest reviewer to the journal **Physics of Fluids**.

Perusing Ph.D.:

1) A. Krishna Rao (Part-Time, Roll No.: 900717541040) (ongoing);
D. Praveen Kumar, UGC-NET, AIR: 93 (Full-Time, Ref. No.:1081/f/ acad: III/2018) (ongoing)

Dr. K. RAMESH BABU

Faculty attended / chaired session in Seminars / Conferences / events (National & International):

- a) Chaired in the international conference ICRDM-2022, Abudabi (Online).
- b) Chaired and presented a research work in ICMMS-2021, Hyderabad (Online, International).
- c) Attended and presented a research work in ICMRS-2022, OU, Hyderabad (offline) in association with APTSMS (International).
- d) Attended and presented a research work in ICRAMCDT-2022, at Tirupati, AP
- e) Attended a short term course on "End to end data science product development" Department of Mathematics, NITW, from 5/12/2022 to 9/12/2022 (online)
- f) Attended a five day national level online FDP on "Effective pedagogy for science " during 29/11/2022 to 3/12/2022, Department of Physics and Mathematics, JMJ College for women (A), Tenali, AP.(Online).
- g) Presented a research work entitled "Analysis on the study of Magnetohydrodynamics impacts on a heat transfer for the cassonnano fluid flow ", in the ICRTM-2022, VIT Chennai on 22,23, Dec.2022
- h) Chaired in the conference ICRTM-2022, VIT Chennai on 22, 23, Dec.2022.
- i) Participated in the National Seminar on "Modeling and Simulation (the Applied world of Mathematics) (MS -2021)" held at Govt. Pt. shyamacharan Shukla college, Raipur on 3rd July 2021
- j) Attended an international 10-Day GIAN Course on "Convection Instabilities and Natural Dynamos - Hydrodynamic Stability and Dynamo Theory Revisited" 9th to 19th, Jan2023 at NIT, Warangal.

- k) Participated in Five Day National Workshop (Online) On “Computational Number Theory & Mathematical Analysis” 22-26 December, 2022 Organized by Department of Mathematics, NIT, Warangal

EC Member:

Dr. K. Ramesh Babu is EC member of APTSMS, Osmania University, Hyderabad, for the academic year 2018-2022.

Awards won by the faculty:

Dr. K. Ramesh Babu received two best teacher awards.

Publications:

- 1) Heat and mass transfer effects on MHD flow over a vertical moving porous layer plate in the presence of thermal radiation and chemical reaction, K. Ramesh Babu, GIS Science Journal, Dec. 2022, 1869-9391, 6.1, UGC Scopus
- 2) K. Ramesh Babu, Finite Element Analysis of MHD Natural Convective Jeffrey Fluid Flow Past A Semi-Infinite Moving Porous Plate, Cite as: AIP Conference Proceedings 2358, 110006 (2021); <https://doi.org/10.1063/5.0057958>, Published online: 30 July 2021.
- 3) On oscillatory rotating convection of a couple stress fluid with helical force, K. Ramesh Babu, J. Nagaraju, Heat Transfer, Nov. 2022, 3.75, SCI journal.

Papers Communicated:

- 1) Viscous Dissipation Effect on Boundary Layer Flow of an Eyring - Powell Fluid Flow (Scopus)
- 2) MHD Tangent Hyperbolic Fluid towards a stretching surface with slip condition (Web of science)
- 3) An Unsteady flow of fluid velocity, temperature and heat emission on MHD free convection flow of some Nanofluids, ICRDM-2022 at Abudhabi (Springer)
- 4) Analysis On The Study Of Magneto-Hydrodynamics (Mhd) Impacts On A Heat Transfer For Casson Nanofluid Flow” ICRTM-2022, at VIT, Chennai, AIP Conference Proceedings

Achievements

- 1) He was appointed as BoS member in TKR College of Engineering, Hyderabad, as per norms and received the appointment letter and also Participated in BoS meeting through virtual mode in Oct 2022.



- 2) He has been approved as BoS member in Guru Nanak Institute of Science and technology, Ibrahimpatnam, Hyderabad as per norms and also attended BoS meeting through offline in Nov 2022.
- 3) Online Meeting by the Dept. of Mathematics, he was approved as BoS member for PG, in Govt. City College, Hyderabad in the Month of June 2021.
- 4) Attended NNRESGI – 2nd Meeting of the Board of Studies of Mathematics Department on 25.10.2022 at 2.00 PM

Ph.D Pursuing

On going student – 01



DEPARTMENT OF PHYSICS

Phone No. 040 - 27682378






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

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

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

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

Faculty details:

Faculty member		Area of Research
Associate Professor		
	Dr. N.Narsimlu, M.Sc., Ph.D	Solid State Physics, Polymers/conducting Polymers, Neutron scattering and Nano composites
	Dr. Ch. Srinivas, M.Sc., Ph.D	Nuclear Radiation Physics, Modern Optics, Polymers/Biopolymers/ Nano- composites and Glasses.
Assistant Professors (Contract)		
	Dr. R.SwarnaLatha, M.Sc.,Ph.D	Opto Electronics Material Science / Polymers
	Dr. K.Krishna Murthy Goud, M.Sc., Ph.D	Electronics & Communication Photoluminescence
	Dr. B.Ashok, M.Sc., Ph.D	Electronics & Communication Polymers / Nanocomposites

Research Facilities

The Department consisting of 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.

Research Activities

The faculty members are actively engaged in research work and publishing research papers in national and International Journals. The total faculty members (existing and Retired) of this department have so far published around 150 research papers in various national and international Journals and around 14 papers were published in the academic year 2021-2022. The present faculty members have full quota of research scholars working with them.

List of Mentors

S.No.	Department	Mentors Name	Mobile No.
I	Physics		
1.	B.E. 1 st Sem. (BME) B.E. 2 nd Sem. (Civil)	Dr. R. Swarnalatha	9949744133
2.	B.E. 1 st Sem.(CSE) B.E. 2 nd Sem. (ME& Mining)	Dr. K. Krishna Murthy Goud	9494227476
3.	B.E. 1 st Sem.(EEE& ECE) B.E. 2 nd Sem.(AIML)	Dr. B. Ashok	9966480080

List of Laboratories of the department:

S.No	Name of Laboratory	Purpose (UG/PG, Course Name, Sem, year, dept details)	Cumulative Number of Equipments	Number of Computers (Desktops/laptops)	New equipment/computers purchased in 2021-2022.
1	Lab-I	B.E. I & II Semesters	4	nil	Beer's law
2	Lab-II	B.E. I & II Semesters	4	nil	Zener diode, LED Characteristics
3.	Lab-III	B.E. I & II Semesters	4	nil	-

List of Publications in International Journals by Faculty:

S. No	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed (scopus, web of science)
1.	Dr. Ch. Srinivas	Preparation and characterization of RGO incorporated Polyvinyl Butyral Nanocomposite films	American Journal of Engineering Research	Vol.-10, 29.11.2021 p-ISSN:2320-0936	Scopus
		Nanocomposite Cotton Fabrics with <i>In Situ</i> Formed Gold Nanoparticles Using Citrus Lemon Leaf Extract as Reducing Agent	Journal of Natural Fibers	Vol.19, Issue:16, 14005-14013 2022/11/28	Scopus
		DLS and Zeta Potential Studies of PVB, ZnO and their Nanocomposites	IOSR Journal of Applied Physics	Vol.14, Issue:6 Pp: 34-37 Dec.-2022	Scopus
		Preparation and spectroscopy studies of ZnO incorporated PVA Nanocomposite films	Materials Today: Proceedings	2022	Scopus
2	Dr. N. Narsimlu	Nanocomposite Cotton Fabrics with <i>In Situ</i> Formed Gold Nanoparticles Using Citrus Lemon Leaf Extract as Reducing Agent	Journal of Natural Fibers	Vol.19, Issue:16, 14005-14013 2022/11/28	Scopus
		Cotton fabric conjugation with nanoparticles - in-situ formed metal nanoparticles by bio-reduction method for multifunctional applications	Proceedings of the DAE-BRNS two-day theme meeting	2022	Scopus

		Synthesis, optical, and radiation attenuation properties of CaF ₂ -TeO ₂ -Na ₂ B ₄ O ₇ -CuO glass system for advanced shielding applications	The European Physical Journal Plus	Vol.136 Issue: 9, 903 2021/9/1	Scopus
		Morphology and optical absorption studies of RGO reinforced PVB nanocomposite films	Materials Today: Proceedings	67, 912-916 2022/1/1	Scopus
		Synthesis and characterization of Fe ₂ O ₃ nanoparticles incorporated PVA nanocomposite films	NIScPR-CSIR, India	2022	Scopus
4	Dr.B.Ashok	Nanocomposite cotton gauze cloth with <i>in situ</i> generated silver, copper and their binary metal nanoparticles by bioreduction method	Inorganic and Nano-Metal Chemistry.	Jan, 2022 doi:10.1080/24701556.2021.2025096	Scopus
		Modification of Waste Leather Trimming with <i>in situ</i> Generated Silver Nanoparticles by one Step Method	Applied Science and Engineering progress	Vol.-14 Apr.-2021	Scopus
		Nanocomposite Cotton Fabrics with <i>In Situ</i> Formed Gold Nanoparticles Using Citrus Lemon Leaf Extract as Reducing Agent	Journal of Natural Fibers	Vol.19, Issue:16, 14005-14013 2022/11/28	Scopus
		Fabrication and properties of antimicrobial flexible Nanocomposite polyurethane foams with <i>in situ</i> generated copper nanoparticles	Jmr& t	26.06.2022	Scopus

List of Books /Chapters/Proceedings Published by Faculty during 2017-2022 (6 years)

S.No	Faculty Name	Title of book or chapter	Publisher Name	Year of Publication
1	Dr. Ch. Srinivas	Text Book of Modern Physics, Sem VI (for B.Sc. IIIyr Students)	Telugu Akademi	2019
2	Dr. N. Narsimlu	Text Book of Modern Physics, Sem VI (for B.Sc. IIIyr Students)	Telugu Akademi	2019
3	Dr.K.Krishna Murthy Goud	“Glasses” A brief overview	Telugu Akademi	2019
4	Dr. B.Ashok	Biodegradable Polymer Composites with Reinforced Natural Fibers for Packaging Materials	CRS Press Taylor &Fransis group	2020

Library facility:

The Department Seminar Library has the following:

S.No	Details	Quantity
1	Text Books	360

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

- 1) To improve the student's fluency and accuracy in English as much as possible during the period of instruction
- 2) To develop the student's ability to hone their existing skills by using effective communication strategies throughout the instruction
- 3) To provide an orientation to reach the expectation of the university, the college and the faculty both inside and outside of the classroom
- 4) 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 Head & Associate Professor MA, PhD	Indian Writing in English, British and American Literature English Language Teaching (ELT)
	Mrs. P. Suma Bindu Asst Professor (C) MA(Litt)., MA(Psy)., PGCTE., PGDELT	English Language Teaching (ELT) Soft Skills
	Dr Lakshmi Mantha Asst Professor (C) M.A, M.Phil, PhD	English Language Teaching (ELT) Soft Skills 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

Dr Lakshmi Mantha

Books Published:

- 5) "Open Universities – Modern Educational Innovations" by Shipra Publications.
- 6) "Science and Technology in India – Developmental Profile" by Shipra Publications.
- 7) "Management Education in India – Issues and Concerns" by Shipra Publications.
- 8) "ICT Use in Indian Education" by Shipra Publications.
- 9) "Professional Education in India" by Shipra Publications.

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>

About CELT:

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. Saveen Souda, MA, PhD Director CELT & Head - Dept of English
	Dr. Lakshmi Mantha, M.A., Ph.D
	Ms. P. Suma Bindu, M.A. English
	Dr. B.B. Chary, M.A., Ph.D
	Ms. Kadambari Devi, M.A. (English)

DEPARTMENT OF PHYSICAL EDUCATION

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

The College has a Basketball Court near the Hostels of the Sports Complex and Gymnasium Hall in the Main Building of the College. The Department selects players to represent College in the Inter-College Tournaments (Men and Women) organized by Osmania University in various disciplines and the required material, uniforms and refreshments are provided to participants. Apart from fielding teams for participation in Inter College Tournaments, the Physical Education Department sends talented players to attend coaching camps conducted by the Dept. of Physical Education, Osmania University in various disciplines, from which selected players will be representing the Inter-University Tournaments.

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



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. Prominent 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 Elxsi, Bhagyanagar Gas Ltd., Accenture, TCS, Cognizant, Wipro Limited, Infosys, Capgemini, Urmair 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.

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 , UCE

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 2020-2021, Statement of Job Offers Received

			BE/UG							ME/PG								Overall	
S No	Company	CRP Dates	BME	CIVIL	CSE	ECE	EEE	Mech	Total Offers for	MCA	ME BME	ME Civil	ME ECE	ME EEE	ME Mech	M.Tech CSE	Total Offers	UG+PG Total Offers	Pay Package P/A in Rs
Total Registered Students			25	56	73	53	58	62	327	26	1	17	33	22	71	44	214	541	
1	Unisys	Feb-20	-	-	-	-	-	-	0	-	-	-	-	-	-	1	1	1	6.00
2	Oracle	6th & 10th-Aug-2020	-	-	2	1	-	-	3	-	-	-	-	-	-	-	0	3	11.50
3	Optum	5th & 17th Aug-2020	-	-	9	-	-	-	9	-	-	-	-	-	-	-	0	9	11.59
4	Experian	7th Aug-2020	-	-	1	-	-	-	1	-	-	-	-	-	-	-	0	1	8.00
5	Oracle	20-Sep-20	-	-	3		1	-	4	-	-	-	-	-	-	-	0	4	9.00
6	Loyalty	15th Sep-2020	-	-	1	-	-	-	1	-	-	-	-	-	-	-	0	1	7.00
7	Factset	18 & 19th Aug-2020	-	-	1	-	-	-	1	-	-	-	-	-	-	-	0	1	9.00
8	Pega Systems	31st Aug & 4th Sep-2020	-	-	2	1	-	-	3	-	-	-	-	-	-	-	0	3	9.50
9	DXC	8th&10th-Sep-20	2	-	2	2	2	2	10	-	-	-	-	-	-	-	0	10	3.60



10	Mathworks	17th& 21st Sep-20	-	-	1	-	-	-	1	-	-	-	-	-	-	0	1	17.30
11	Hexagon	22nd Sep-20	-	-	-	-	-	-	0	-	-	-	-	-	-	0	0	5.00
12	Medtronics	26th&29th - Sep-2020	-	-	-	-	-	-	0	-	-	-	1	-	-	3	4	5.75
13	DeltaX	29th -Sep-20	-	-	-	-	-	-	0	-	-	-	-	-	-	0	0	5.00
14	Infosys	30st Sep-20	2	4	1	4	3	3	17	1	-	-	-	-	2	1	4	3.60
15	Accenture	3rd-14th Oct-20	4	2	14	13	7	3	43	1	-	-	-	-	-	1	44	4.5 & 6.5
16	Merilytics	8th&9th-Oct-20	-	-	2	1	-	-	3	-	-	-	-	-	-	0	3	5.00
17	Thomson reuters	14th &15th Oct-20	-	-	-	-	-	-	0	1	-	-	-	-	-	2	3	5.00
18	Cognizant	18th&19th-Oct-20	2	4	7	5	10	7	35	1	-	-	2	-	-	-	38	4.00 & 7.00
19	Medha Servo Drives	28th-Oct-20	-	-	-	1	2	-	3	-	-	-	-	-	-	0	3	3.60
20	TCS	24th Oct-20	5	2	6	5	4	3	25	1	-	-	-	1	-	2	29	3.60
21	Wipro	27th&30th Nov-20	-	-	10	1	2	1	14	-	-	-	-	-	-	0	14	5.50
22	Global Monitor	28th-Oct-20	-	-	3	-	-	-	3	-	-	-	-	-	-	0	3	20000 PM
23	AMD	6th-Nov-20	-	-	-	-	-	-	0	-	-	-	6	-	-	3	9	14.50
24	Arcesium	29th -Nov-20	-	-	-	-	1	-	1	-	-	-	-	-	-	0	1	22.00
25	L&T	1st Nov-20	-	4	1	-	-	3	8	-	-	1	-	-	-	1	9	6.00
26	Techmojo	3rd&4th Dec-20	-	-	-	-	-	-	0	-	-	-	-	-	-	0	0	5.00
27	Raam Group	7th Dec-20	-	-	-	-	1	2	3	-	-	-	-	-	-	0	3	5.00
28	Digilogic	16th Dec-20	-	-	-	-	-	-	0	-	-	-	1	-	-	1	1	10000PM
29	MTX	22nd Dec-20	-	-	2	-	-	-	2	-	-	-	-	-	-	0	2	6.50

[illegible]



49	PwC AC	Apr-21	-	-	-	1	1	-	2	-	-	-	-	-	-	-	2	6.00
50	Aurobindo	6th May -21	-	-	-	-	-	2	2	-	-	-	-	-	-	-	2	5.00
51	Premier Energies	31st July-21	-	-	-	4	2	7	13	-	-	-	-	-	-	-	13	5.00
52	L&T(CSEECE)		-	-	-	-	-	-	0	-	-	-	-	-	-	-	0	6.00
53	IBM	25th Aug-21	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	4.00
54	ITC	9th & 17th Aug- 21	-	-	-	-	-	4	4	-	-	-	-	-	-	-	4	7.00
55	Cyient	23rd Aug-21	-	-	-	-	-	-	0	-	-	-	1	-	-	-	1	6.00
56	Renew Power	24th Aug-21	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0	3.50
57	CADFEM	29th Sept-21	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0	5.00
	GRAND TOTAL		17	16	87	54	42	43	259	9	0	1	11	2	2	15	40	299

CURRICULUM DEVELOPMENT, AUDIT AND ACCREDITATION CELL (CDAAC)

The office of the CDAAC is responsible for all academic matters relating to both under graduate and post graduate programs 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

- Innovation and improvements in curriculum
- Teaching-learning process
- Examination and evaluation systems, and remedial teaching
- Academic audit of the evaluation and assessment process
- Seeking accreditation from National Board of Accreditation, New Delhi

The College has adopted the AICTE Model Curriculum from the academic year 2018-2019. It provides flexibility to the students in the selection of courses of their choice in Electives.

Currently, the College has NBA accreditation for it's under graduate programs and in the process of applying for post graduate programs. This demonstrates the institute's commitment to excellence and continuous quality improvement.

Prof. V. Bhikshma
Director, CDAAC

DIAMOND JUBILEE LIBRARY, UCE

Phone: 040- 27682339 Fax: 040- 27095179

The Diamond Jubilee Library is housed in a spacious double storied building with a plinth area of about 2420 square meters, established in 1992 on the occasion of the Diamond Jubilee Celebrations of the University College of Engineering, Osmania University. The Library has a magnanimous collection of over 1,00,000 collections comprising of books, theses, journals, videos, e-books etc. in the field of Engineering, Science & Technology, Humanities , Social Sciences and Management, which makes it one of the largest collections of Engineering in the state of Telangana. The collection can be accessed through web OPAC. The Library has procured an HP ProLiant ML350 Gen9 server for providing online access to e-journals. It has 1057 B.E. students, 622 M.E. students and 899 Ph.D.students who are registered members in addition to the teaching and non-teaching staff of the college. All the members are provided with library cards in addition to the RFID based ID cards. This gives the compatibility to fully automate the library.

The Library provides facilities like lending (Books Issue & Returns), Inter Library Loan, Web/intranet based information services and Wi-fi Services. Twenty routers provide high speed internet facility at every corner of the library. The Library also has SC/ST book bank exclusively to SC/ST students with a collection of over 8167 books. An additional floor area of 400 m² has been added to the reading room in the year June 2016.

SECTIONS IN THE LIBRARY:

The library has 10 sections and the section-wise details are as follows:

Ground Floor:

- **Circulation Section:** Lending of books (Issue and Return)
- **Technical Section:** Accession, Automation (data regarding books details will be entered), Barcode and Classification.
- **Stack Section:** 26 racks covering all engineering subject books for borrowing.
- **Reading Hall:** The reading hall is equipped with enough furniture enough to accommodate 250 members at a time.
- **Newspaper Section:** The library has subscribed to all the major daily newspapers of Telugu and English languages.
- **SC/ST Section:** SC/ST book bank section has a collection of 8167 books. Exclusively for SC/ST students only for borrowing and reading.
- **Learning Resources:** Are accessed through University College of Engineering, College website.

First Floor:

- **Reference Section:** Apart from reference books, previous question papers, year books, competitive books and magazines are also available. Students can only refer to them.
- **Digital Library:** There are about 25 computers with access to various e-journals and e-books.
- **Journal Section:** Bound volumes of Engineering Journals and books procured under TEQIP are available here. These materials are meant for reference only.
- **Reprographic Section:** The Xerox (Reprographic) facility is available in the Library.

Digital Library (Online e-Resources):**DIGITAL LIBRARY (ONLINE e-RESOURCES):**

- Library is subscribing the following online journals every year.
- ❖ Institute of Electrical and Electronics Engineers (IEEE)
- ❖ Association for Computing Machinery (ACM)
- ❖ American Society of Mechanical Engineers (ASME)
- ❖ American Society of Civil Engineers (ASCE)

LIBRARY COLLECTION:

The section-wise collection is given below

❖ BOOKS:

- | | |
|----------------------------|-----------------|
| ➤ Text Books | : 88601 |
| ➤ SC/ST Book Bank | : 8167 |
| ➤ Gifted Books | : 5505 |
| ➤ Text Books under TEQIP | : 2186 |
| ➤ Total Collection | : 104459 |
| | |
| ➤ No. of Titles | : 31567 |
| ➤ Bound Volumes (Journals) | : 6295 |
| ➤ Magazines | : 03 |

e-BOOKS COLLECTION:

The library has purchased the following e-books.

<https://www.pdfdrive.com> : IEEE Wiley (Perpetual) : Titles (4165)

<https://bookboon.com> : IEEE MIT (Perpetual) : Titles (95)

<https://notesvarsity.com> : CBS Indian Publication e-Textbook

Mechanical, Electrical & Electronics & Civil Engineering (Perpetual)

: Titles (370)

FINANCIAL RESOURCES:

The library has continuous allocated budget from the following resources.

- University Normal Budget : **Rs. 3,64,000=00**
- Non-University Fund, UCE, OU. : **Rs. 4,40,000=00**
- Every year we spend approximately : **Rs. 50,00,000=00**
on online Journals (through CEEP & College Fund).

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 11.00 p.m ahead of University examinations and other competitive examinations.
- On all Sundays and Public Holidays the reading hall of the Library is kept open from 9.00 a.m to 5.00 p.m.
- Book lending services can be used by faculty and students on all working days from 9.00 AM to 4.30 PM.

LIBRARY AUTOMATION:

The Diamond Jubilee Library is fully automated with KOHA (Open Source Software). It has features like Biometric & Card Reader, ICS Circulation Software for book issue & return, Entry Exit Attendance gate Software for students, Patron Check Station system with Biometric.

Director : Prof.M.Malini
Dept. of Bio-Medical Engineering.
e-mail: mudigonda.malini@gmail.com

EXAMINATION CELL

Telefax: 040-27097140, Phone: 040-27682232

The Examination Cell was established in the academic year 1995-96, after declaring the college as an autonomous institute. The objectives of Examination Cell are as follows; conduct of B.E., M.E./M.Tech. and Pre-Ph.D Examinations, evaluation of answer scripts, declaration of results and issue of certificates. It is headed by the Director of Evaluation and supported by two Joint Directors. Sufficient number of staff are available in Exam Cell to take care of routine works. The Exam Cell is well established in terms of infrastructure and computing facilities.

The Examination Cell offers the following online services:

- Submission of Exam Application Forms by students.
- Issue of computer generated Hall Tickets / Downloading of Hall tickets from exam cell website.
- Entry of marks
- Web publication of results
- Computer generated Tabulation Registers (TR)
- Application for certificates

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 Hall Tickets.
- Preparation of Examination Time Tables.
- Conducting spot evaluation for B.E. & M.E./M.Tech. Courses & processing of results.
- Publication of Results after conducting Results Committee Meeting.
- Verification, Printing and issue of Semester Marks Memo.
- Issue of Provisional Certificates, Consolidated Memorandum of Marks, Migration & Rank Certificates to the eligible candidates.
- Issue of digitized Transcripts after due verification.
- Organizing Annual Academic Awards function.

Note:

1. Students are hereby instructed to read the Rules and Regulations of their course of study to know the scheme of instruction and examination, rules of promotion, award of division etc.
2. The scheme of instruction and prescribed syllabi may be obtained from the respective Departments.
3. The Examination Branch, Osmania University, will issue Degree Certificates to all the eligible candidates.

Officers:**Director of Evaluation:**

Prof. P. Chandra Sekhar

Joint Directors:

1. Dr. (Ms.) S.V.S.N.D.L. Prasanna (PG)
2. Dr. A. Bharathi (UG)

Note:

1. The students are hereby instructed to read the Rules and Regulations for the four year Degree Courses in Engineering and two year PG courses in Engineering 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 (Autonomous), Osmania University has established Centre for Continuing Engineering Education Programmes (CEEP) for imparting continuing education to working professionals and academicians through

- ✓ Three years Post Graduate Programmes
- ✓ 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 PROGRAMMES (PTPG)

Post Graduate Programmes in various specializations of Civil Engineering, Computer Sciences and Engineering, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering and Mining Engineering are being offered every year for past 30 years exclusively for working professionals Director – CEEP (Part-time Programmes) was facilitating these programmes 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 programmes, 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.	Department	Specialisations	Duration	Year of Commencement	Sanctioned Intake
1	Bio-Medical Engineering	Medical Devices	3 Years	2022	20
2	Civil Engineering	Structural Engg.	3 Years	1966	20
		Water Resource Engg.	3 Years	1966	20
		Geo-Technical Engg.	3 Years	1966	20
		Transportation Engg.	3 Years	2010	20
S.No.	Department	Specialisations	Duration	Year of	Sanctioned

				Commencement	Intake
3	Computer Science & Engineering	Computer Science & Engineering	3 Years	1991	20
		Artificial Intelligence & Machine Learning (AI&ML)	3 Years	2021	20
		Cyber Security	3 Years	2022	20
4	Electronics & Communication Engineering	Digital Systems	3 Years	1975	20
		Systems and Signal Processing	3 Years	1975	20
		Microwave & Radar Engg.	3 Years	1975	20
		VLSI & Embedded Systems	3 Years	2021	20
5	Electrical Engineering	Industrial Drives & Control	3 Years	1971	20
		Power Systems	3 Years	1971	20
		Power Electronic & System	3 Years	2021	20
6	Mechanical Engg.	Production Engg.	3 Years	1994	20
		Automation & Robotics	3 Years	1994	20
		Turbo Machinery	3 Years	1994	20
7	Mining Engineering	Mining Engineering	3 Years	2021	20

Admission to these programmes is on the basis of merit obtained at an Entrance Test to be conducted by the University College of Engineering (A), Osmania University and subject to the other eligibility requirements as announced from time to time. As on date, over 198 students are on rolls, pursuing the post graduate programme offered by CEEP. All academic requirement of M.E./M.Tech programmes offered under CEEP are same as that of the Full-Time M.E./M.Tech programmes.

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 7.30 PM

For further details please contact

Prof. Sriram Venkatesh, Principal, UCE (A), OU &
 Director, Centre for Continuing Engineering Education Programmes (CEEP)
 University College of Engineering (A), Osmania University, Hyderabad.
 Phone No: +91 8331997314

CENTRE FOR PRODUCT DESIGN, DEVELOPMENT AND ADDITIVE MANUFACTURING (CPDDAM)

 <p style="text-align: center;">CENTRE FOR PRODUCT DESIGN, DEVELOPMENT & ADDITIVE MANUFACTURING (A Centre of Excellence of OU Under RUSA 2.0, MHRD Govt. of India) OSMANIA UNIVERSITY</p>			
			
EOS SLS 3D Printer		SLM Metal 3D Printer	
			
STRATASYS Polyjet 3D Printer	ARTEC Handheld 3D Scanner	3D Systems FABPRO SLA 3D printer	ULTIMAKER SPRO FDM 3D printer

SOME PROTOTYPES PRODUCED AT THE CENTRE



CENTRE FOR PRODUCT DESIGN, DEVELOPMENT AND ADDITIVE MANUFACTURING (CPDDAM)

University College of Engineering
Osmania University, Hyderabad – 500 007

PREAMBLE

The state-of-the art ‘Center for Product Design, Development and Additive Manufacturing’ a Centre of Excellency in Additive Manufacturing or popularly known as 3D Printing was established in the year 2019 with a funding of nearly Rs. 5 Crores under RUSA 2.0, MHRD, Govt. of India. The centre is having State-of-the-art 3D Printers like Powder Bed Fusion: Selective Laser Melting (SLM) Metal 3D Printer & Selective Laser Sintering (SLS) based Rapid Prototyping (RP) system, Resin based Sterio-lithography (SLA) & Polyjet Machine, Wire Extrusion: Ultimaker S5 Pro, Flash Forge & ShivOU (In house built) Fused Deposition Modelling (FDM) Machines. Apart from the above 3D Printers the Centre is also equipped with state-of-the art Artec 3D Scanner for reverse engineering purpose. Specialized software and hardware for advanced modeling and analysis was procured under this Centre.

This centre is State-of-the Art Centre of Excellence in Additive Manufacturing in the entire State of Telangana bringing laurels to the University and the College. The center is providing product development and prototyping facilities to B.E, M.E./M.Tech students and Ph.D scholars. The Centre offers internship to BE & ME students and also offers Ph.D and Post Doctoral Programs, Apart from above, the center is also actively involved in doing consultancy projects by providing prototyping facilities to prestigious defence labs such as DMRL, DRDO and industrial firms like GE, Mahindra Satyam, Satyam-Venture, Analogies Tech. India Ltd., C2P, Models India, Transcend etc. The centre is also actively involved in serving the society by helping doctors in making prototypes for pre-planning surgery of complex operations.

OBJECTIVES

- To conduct research in the frontier areas of Rapid Prototyping and Product Development covering the state-of-the art technologies.
- To provide prototyping facilities to B.E, M.E./M.Tech students and Ph.D scholars for doing their project/research works.
- To execute sponsored and consultancy projects thus improving industry-institute interaction.

- To provide prototyping facilities to medical professionals by building prototype models that will help in pre-planning for surgeries involving complex operations.
- To conduct short term training courses, conferences, workshops and seminars in the broad area of Rapid Prototyping and e-Manufacturing that will help students/faculty/ in acquiring new skills in this area.

DETAILS OF FACULTY MEMBERS

Staff	Specialization/Research Interests	Membership in Professional Bodies
<u>Director</u> Dr.Sriram Venkatesh, Ph.D Associate Professor, Dept. of Mechanical Engg., U.C.E, O.U	CAD/CAM, Bulk Materials Handling, Rapid Prototyping, Machine Design	FIE, MISTE, MISME, MTSI
<u>Joint Director</u> Dr. L. Siva Rama Krishna, Ph.D Associate 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
<u>Faculty Associated</u> 1.Mr. E.Madhusudhan Raju, M.Tech 2. Dr. D.Suman, Ph.D	Automation & Robotics Biomedical Engineering, Biomedical Signal	BMESI, IACSIT, ISSE
<u>Technical Staff</u> Dr. K. Buschaiah, Ph.D Scientist/Instrumentation Engineer Dept. of Mechanical Engg., U.C.E, O.U	Production Engineering	
<u>Technician</u> 1. Mr. G. John Nitin Joshee, M. Eng	ToolDesign / Additive Manufacturing	

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
- ❖ Sensa Core Medical Instrumentation Pvt. Ltd.
- ❖ Digital Dynamics, & Bakeys, Redfine Signals
- ❖ Yatna Engineering Solutions
- ❖ Hanbit Automachine Technology Pvt. Ltd.
- ❖ Thirumalasetti Industrial Engineering Solutions
- ❖ Celltree – Bio Labs Pvt. Ltd,
- ❖ ACME Toolings
- ❖ HBL Power systems Ltd.,
- ❖ Guts Electromech Limited
- ❖ COVIDIEN, Nobel Automotive,
- ❖ CARE Hospitals, Banjara Hills
- ❖ Yashoda Hospitals, Secunderabad,
- ❖ Social hardware

FDP/PDP /WORKSHOPS ORGANIZED BY THE CENTRE

1. Organised one day workshop on Advancements in Additive Manufacturing and Emerging trends in India on 19-11-2022 in association with National Centre for Additive Manufacturing, Hyderabad.
2. Participated in the Additive Manufacturing Tradeshow organized by AMTECH during 2-3 December, 2022 at HITEX Exhibition Centre, Hyderabad.

INTERNATIONAL RECOGNITION

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

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

DISTINGUISHED VISITORS

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

Sl No	Date	Name & address
1	26-03-2009	Mr. Graham Rogers, Deputy Vice Chancellor, University of Wales, Newport, UK
2	17-09-2009	Prof.R.Venkateshwar, Controller of Exams, Osmania University, Hyderabad
3	05-01-2010	Prof. James Staicken, Biological and Agricultural Engineering, Kansas State University, Manhattan, KS66506, USA
4	05-01-2010	Prof. Raju Sivarama Dandu, Mechanical Engineering Technology, Kansas state, Salind, USA
5	27-04-2010	Mr. Peter Noyes, Vice chancellor, University of Wales, Newport, UK
6	27-04-2010	Prof. Jan Nayer, University of Bristol, UK
7	18-05-2010	Prof. R.V.RajaKumar, Vice Chancellor, RGVKT, Hyderabad
8	20-09-2010	Dr. D.R Bains, School of planning
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
18	30-09-2021	Shri Navin Mittal, IAS Commissioner, Collegiate Education & Technical Education Director SPD, RUSA, Government of Telangana.
19	17-12-2021	Dr. U. Chandra Shekar

		Wipro 3D, Bangalore
20	30-12-2021	Dr. S. Muthu Kumar, Sc'F' Programme AD, RCI Kanchanbagh, Hyderabad.
21	30-12-2021	K. Vamsi Krishna Reddy, Sc'F' Programme AD, RCI Kanchanbagh, Hyderabad
22	30-12-2021	A.P. Dabhade, Sc'F' PGAD/RCI, Head-Quality, DRDO Hyderabad
23	19-02-2022	PururavThoutireddy California, USA
24	07-04-2022	Dr. Anand Govindaluri Singapore
25	17-06-2022	Chandra Talluri CEO-OTSI, KS, USA
26	18-06-2022	Dr. Bhiksham.G Bule Hora University Ethiopia
27	28-07-2022	Rajiv Dubey Professor & Chair Dept of Mechanical Engineering, University of South Florida, Tampa, Florida, USA
28	02-08-2022	A. K. Chakrabath Former Director, DRDL
29	09-09-2022	Mr. Harish Lokhan Market Development Manager – India, UK
30	04-01-2023	Dr. Abhishek Deshpande IIIT-Hyderabad
31	04-01-2023	Aishwarya Deshpande University of Wisconsin – Madison USA

PROJECTS AND DISSERTATIONS COMPLETED

BE: 35
M.E: 45
Ph.D:08 Completed & 04 scholars are pursuing

RESEARCH PAPERS PUBLISHED

1. R.Swetha, L.Siva Rama Krishna, B.Hari Sai Kiran, P. Ravinder Reddy, Sriram Venkatesh, "Comparative Study on life cycle assessment of Components produced by Additive and Conventional Manufacturing Process' Matrics Today Proceedings, Volume 62, Part 6, pp. 4332-4340, 2022
2. A.Mahaveer Prasad, Sriram Venkatesh, L.Siva Rama Krishna, S.Siddartha Chander, "Design, Analysis and Building of Knee Replacement Implant using Additive Manufacturing" Journal of Electronics Information Technology Science and Management, Vol. 12, Issue 10, 2022.
3. JammulaPraneeth, Sriram Venkatesh, L. Siva Rama Krishna, "Process Parameters Influence on Mechanical Properties of AlSi10Mg by SLM". Materials Today Proceedings, January 2023

The center has received lot of appreciations and good feedback for the products developed at the centre. Defencelabs (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 3DPrinting, which has helped the University to claim its rightful place in Additive Manufacturing technology.

For further details Please Contact:

Dr. Sriram Venkatesh

Director,

Center for Product Design, Development and Additive Manufacturing (CPDDAM),

University College of Engineering,

Osmania University, Hyderabad – 500 007

Mail: cpvipou@gmail.com, Cell No: 9440408333

**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 MW Studio
- MathWorks Antenna Toolbox

Hardware

1. Agilent 8720ET Vector Network Analyzer (50 MHz- 20 GHz), S-Parameter Test Set
2. HP 85047A Scalar Network Analyzer (300 KHz- 6 GHz), S-Parameter Test Set
3. Agilent E4418B EPM Series Power Meter- 1, HP 437B Power Meters - 2
4. Advanced Microstrip Trainer Kit AMTK – 9000C- SICO Ghaziabad/IIT Delhi Product
5. Anritsu MS2720T Spectrum Analyzer (9KHz-20GHz)
6. Rohde & Schwarz FSH8 Spectrum Analyzer (9KHz-8GHz)
7. Keysight Analog Signal Generator N51738(9kHz-20 GHz)
8. RF Vector Network Analyzer Anritsu S820E or Microwave Site Master (1MHz- 20 GHz)
9. IEEE-MTT-S Education Committee Radio Frequency Trainer Kit (SIGMA-WE initiative)

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,

Professor, Dept. of ECE, UCE, OU.

E.Mail: dasariramakrishna@osmania.ac.in

dasariramakrishna@yahoo.com.

Mobile: 919441154911

CENTRE FOR CREATIVE TECHNOLOGIES

Phone No: 040-27098254

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

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

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

Events Conducted:

- **Envisage** : 2006, 2007 and 2008
- **Samskruthi** : 2009 and 2014
- **Quizzotic** : 2011, 2012, 2013, 2014, 2015, 2016, 2017 and 2018
- **FreeStyle** : 2015, 2016, 2017 and 2018

Advisory Committee

Dr.Sriram Venkatesh	Professor & Principal	UCE, OU	Chairman
Dr.Narsimhulu Sanke	Professor	MED	Director
Dr.P.V.N.Prasad	Professor (Retd)	EED	Member
Dr.S.Ramachandram	Professor (Retd)	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	Professor	CED	Member

Correspondence Address

DR.NARSIMHULU SANKE, Director

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.

The EDP, UCE, OU had Organized a two day short-term course entitled “Entrepreneur Awareness Camp during 17th & 18th December 2021.

Director :Dr.G.Narender, Associate Professor, MED,UCE, OU.

Enterprise Resource Planning Cell (ERP Cell)

Enterprise Resource Planning Cell was established in 2018 with a futuristic ambition to enable the College to move all services & facilities to its stakeholders to an integrated online platform.

Within a short span majority of the academic activities like students registrations, subject registrations, marks entries, attendance updates, fee payments, obtaining marks memos, bonafied certificates all have become online.

These have shown immense impact during unforeseen situations.

The team of ERPC provides various services through CCC, E-class Room & Serverfarm to all the Departments of University College of Engineering, Osmania University.

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

Internet Connectivity:

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

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.

Central e-Class Room:

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.

Future Plans:

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

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

Advisor:**Prof. Sriram Venkatesh**

Principal, University College of Engineering.

Director:**Prof. M. Manjula**

Professor, Dept of EE, UCE,OU.

System Administrators/Programmer:

Mr. N.Venkata Ramana	nallavenkataramana@gmail.com
Mr. Lanka Phanibhushan	lankaphani@gmail.com
K. Swathi	kswathi92.cse@gmail.com
Mr. Bhaskar Rao	

CENTRE FOR ENERGY TECHNOLOGY





Advanced Biomass Downdraft Gasifier



Solar Water Heater-Flat Plate Collector



Solar Photovoltaic Modules



Lecture on RE Program



Visitors in CET



Solar Training Kit (TEQIP-II)

Visitors in CET
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

CENTRE FOR ENERGY TECHNOLOGY

Tel: 040-27096253

E-mail: cetdirector@gmail.com

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

Staff

Director

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

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)

Specialization/Research

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

Faculty Associated

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

Turbomachinery, Thermal Engineering

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

Heat Transfer, Thermal Engineering

Main Activities

- To undertake research and development projects in the field of Biomass Energy, Solar, Thermal/Solar Photovoltaic, Wind Energy, Clean Coal Technologies and Ocean Energy Technologies.
- Biomass Production, Utilization and Conversion Technologies.
- To undertake design and commissioning of Wind Power Plant and Optimization studies.
- 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.
- Identification, planning and Implementation of Rural Energy Programmes.
- To undertake R&D projects in the area of New and Renewable Energy, Thermal Engineering and environmentally friendly. To provide advice to industry begin Renewables, Wood Gasification,
- 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
- Thermal Engineering, Energy and Environment
- Energy resources and utilization
- Energy for rural development
- Power Plant performance monitoring and testing
- Waste Heat Recovery and Co-Generation
- Sources and uses of electricity
- Renewable energy systems.

Number of projects completed by the students for B.E., M.E., Ph.D degree based on Alternative Energy Systems in the Centre for Energy Technology, OU (upto July 2022)

- | | |
|-------------------------------|---------------------------------|
| • Number of Ph.D | : 2 Completed and 1 on-going |
| • Number of M.E dissertations | : 64 (Completed) + 4 (on-going) |
| • Number of B.E Projects | : 17 (Completed) |

Keynote

Delivered a keynote lecture on “Conversion of solar energy to electricity with maximum efficiency” at the International conference on advances in renewable energy (ICARE-2023)-January 11-13, 2023, Organized by Swami Ramanand Teerth Marathwada University, Nanded, M.S.

Visiting Advanced Joint Research 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 of the Project
Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad Metropolitan City	Prof. Gopal Naik M & Dr. Harish Gupta, Dept. of Civil Engineering, UCE, OU.	Dr. Srinivasulu Ale (Texas A&M University) & Dr. Fouad Jaber (Texas A&M University), Prof. Jihn-Sung Lai (Nanyang Technological University (NTU)), Prof. Jr-Chuan Huang (National Taiwan University (NTU))	74.38 Lakhs	2 years (2019-2021)

As the part of above sanctioned program The University College of Engineering, Osmania University has successfully conducted the following workshop.

Name of The Workshop	Coordinators	Duration	No. of Participants
Climate Change and Urbanisation: Building Resilience in the Urban Water Sector	Prof. Gopal Naik M & Dr. Harish Gupta, Dept. of Civil Engineering, UCE, OU.and Dr. Srinivasulu Ale & Dr. Fouad Jaber Texas A&M University,USA.	16-17 Dec 2019	88

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@yahoo.com , 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 approved degree-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 upto the Academic year 2022-23 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
12	2020-21	CSE	2
13	2020-21	ECE	2
16	2022-23	CED	01
17	2022-23	ECE	02

For further information contact:

Prof. K.Saraswathamma

QIP- Coordinator, & Professor, Mechanical Engineering Dept., UCE, OU

NSS ACTIVITIES

NSS ACTIVITIES DONE DURING THE ACADEMIC YEAR (2020-21)

- 1) 21-06-2022- International Day of Yoga was celebrated.
- 2) 01-12-2021 NSS volunteers helped in smooth conduct of BE Orientation day
- 3) 02-11-2022 NSS volunteers helped in smooth conduct of BE Orientation day
- 4) 13-07-2022 NSS Volunteers participated in Independence Day Celebration Rally from Tankbund to Secunderabad.
- 5) 15-09-2021 NSS volunteers participated in Covid Vaccination Drive organized by Osmania General Hospital.
- 6) 15-02-2023 NSS volunteers participated in 2k run from arts college to NCC Gate.
- 7) 17-03-2022: NSS organized University Clean and Green program, wherein volunteers cleaned the premises of all departments of UCE,OU.
- 8) 16-07-2022 NSS Volunteers participated in Swatantra Bharata Vajrothosava Dvishapthaham Celebrations.
- 9) 03-01-2023 NSS Volunteers participated in Global Alumni Meet, Osmania University.

For further information contact:

Mr. E. Madhusudan Raju NSS Program officer Unit -I & Associate Professor, Mechanical Engineering Dept., UCE, OU	Dr. Hameed NSS Program officer Unit-II & Associate Professor, Computer Science, UCE, OU
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NATIONAL CADET CORPS 2(T) AIR SQN(TECH)



Introduction:

With an aim for raising a second line of defence and to create a large pool of trained youth available for Armed Forces during the First World War, University Corps was conceptualized by the British Government. In India, NCC was raised with an aim of grooming both the boys and the girls, nurture them and direct their energy towards nation building by making them responsible citizens.

After independence, the present day NCC formally came into existence on 15 July 1948 through XXXI Act of Parliament. The Girls Division of the NCC was raised in July 1949. On 01 April 1950, Air Wing was raised, with one Air squadron each at Bombay and Kolkata. The Naval Wing of the NCC was raised in July 1952, thus representing all three services in the Corps.

Today the NCC has an enrolled strength of more than 13 Lakh cadets and consists of two divisions of all the three Services, i.e., the Senior Division / Senior Wing for boys/girls from colleges and the Junior Division / Junior Wing for boys/girls from schools.

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

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 organized 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.

Training activities of NCC:-

(a) Institutional Training. Training organized in schools and colleges as parades.

(b) Camp Training. Formal training organized as camps of 10-12 days duration.

(c) Attachment Training. Formal training organized by attachment with Army / Naval / Air Force units or with officer training academies like Indian Military Academy (IMA) and Officers Training Academy (OTA).

(d) Naval Wing Activities. Seamanship, Navigation, Communication and other associated naval subjects are taught to cadets. Swimming, Scuba Diving and Wind Surfing are other interesting activities to which the cadets are exposed to.

(e) Air Wing Activities. Airmanship, Aero modelling, Navigation, Air Frames, Aero Engines and Microlite Flying are taught to cadets.

(f) Remount & Veterinary Activity. This activity is primarily meant for horsemanship and riding.

NCC @UCE, OU.

National Cadet Corps (NCC) Unit of University College of Engineering (A), Osmania University was established in the academic year 2017-18 by 2(T) AIRSQN (TECH), NCC, Secunderabad with the cadet strength of 100. Currently the unit has an enrolled strength of 100cadets (67 SD & 33 SW), and Flying Officer D.Suman is acting as the Associate NCC officer. NCC cadets will be trained on Drill, weapon drill, weapon training, firing, common subjects of NCC and specialized subjects of Air force. Institutional training is conducted by the ANO and PI staff within the college at the NCC office of the Engineering College as per the block training Programme.

Every academic year 30 parades (Each parade of 2 hrs each) will be 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 abhiyaan, Youth festival, cancer awareness walk, etc.

Achievements of the cadets

S.no	Cadet name	Event participated	Duration	Award/Honor
1	Cdt.Surabhi Bharadwaj	IDSSC-Inter Directorate Sports Shooting Championship, Mhow, Indore	15/08/2021-2/10/2021	4 th Place
2	C/Sgt.G.Anitha C/Sgt.S.Abhijith CUO.Hajira Naim CWO.B.Praveen LFC.M.Vishnu sai	Felicitation Ceremony for the participants of AIVSC & RDC	19/02/2021	Trophies
3	38 cadets	Participated in Cadre camp of B & C certificate examination	15/02/2021-19/02/2021	---
4	20 cadets	Appeared for NCC 'B' certificate examinations	Aug/Sept 2021	19 Cadets passed with 'A' grade
5	15 cadets	Appeared for NCC 'C' certificate examinations	Aug/Sept 2021	15 Cadets passed with 'A' grade
6	Cdt/Cpl.G.Anitha	Lead AP & Telangana Contingent as a contingent commander during 79th Republic Day celebrations in the governors rally	26th January 2019	Trophy
7	Cdt/Sgt.G.Anitha	Felicitated by Institute of Engineers(IoE) during woman's day celebrations	12, March, 2019	Trophy
8	17 cadets	Participated the Inter Unit competitions held at AP & Telangana directorate.	04-12, sept, 2019	Stood 2nd place
9	20 cadets	Appeared for NCC 'B' certificate examinations	--	17 Cadets passed in A grade
10	6 cadets	Appeared for NCC 'C' certificate examinations		3 Cadets passed
11	Cdt/Cpl.G.Anitha	Lead AP & Telangana Contingent as a contingent commander during 79th Republic Day celebrations in the governors rally	26th January 2019	Trophy
12	Cdt/Sgt.G.Anitha	Attended the Air force Attachment camp, dundigal	18-30, Dec, 2018	Merit Certificate
13	Cdt/Sgt.G.Anitha	Attended the LRDC camp, BTG, Secunderabad	04-12, Sept, 2018	Merit Certificate
14	Cdt/Sgt.G.Anitha	Felicitated by Institute of Engineers(IoE) during woman's day celebrations	12, March, 2019	Trophy
15	Cdt/Sgt.G.Anitha	Attended "Ek Bharat Shresht	3-15,	Gold

		Bharat" at Amritsar	June2018	medal
16	Cdt/LFC.S.Abhijith	Attended All India Vayu Sainik Camp(AIVSC), Jodhpur.		Merit Certificate
17	Cdt/LFC.S.Abhijith	Attended "Ek Bharat Shresht Bharat" at Amritsar	3-15, June2018	Gold medal
18	20 cadets	Participated the Annual Training Camp(ATC-VIII) at BTG, Secunderabad	26th Aug-3rd Sept, 2018	Merit Certificate
19	Cdt/R.Srikanth	Attended Trekking camp, at balgaum trekk.	Nov, 2018	Merit Certificate
20	Cdt.B.Vennela Cdt.K.keerthana Netha Cdt.S.Abhijith	Participated the Inter group competitions held at Warangal.	13-20, sept,2018	Got the Best Technical unit
21	17 cadets	Participated the Inter Unit competitions held at AP & Telangana directorate.	04-12, sept, 2018	Stood 2nd place
22	Dr.D.suman Associate NCC Officer	Attended the Pre-Commissioning course at OTA Kamptee and Air force Station , Tambaram	November, 2018	Got commissioned as Flying Officer w.e.f.05/11/2018

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

NCC Events



Three Week Induction Program for first year UG students

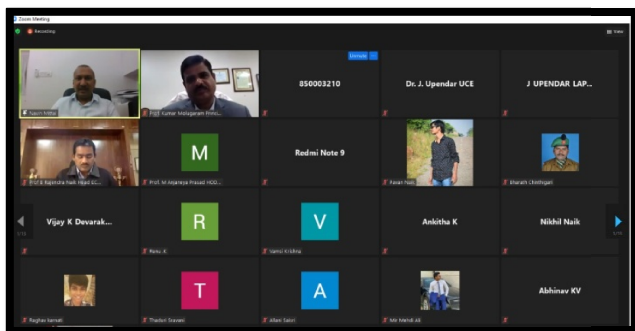
The one week Induction Program for the newly admitted students of Engineering was inaugurated by Mr. Navin Mittal IAS , Commissioner of Collegiate & Technical Education, Govt of Telangana on 02.12.2020.

The one week Induction Program (02.12-2020 to 10.12.2020) was conducted online due to COVID 19 pandemic and students from six departments attended the program. The Induction Program covered broad aspects of the AICTE Model Curriculum including Creative Arts, Universal Human Values, Literary , English Proficiency Modules, Physical activity, Lectures by invited Persons who have made a significant contribution in the field., Familiarization to Dept./Branch & Innovations, start ups/ Higher Educational opportunities were also covered.

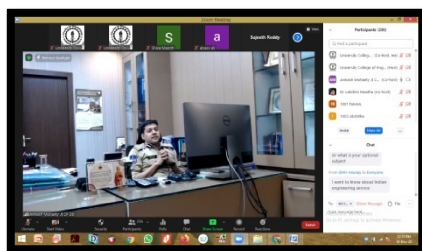
The induction program normally is associated with lot of fun, camaraderie and knowledge sharing but was missing due to COVID 19 as it was conducted on online. As per AICTE model curriculum, the Induction should be conducted for three weeks however, due to COVID 19, the Induction program was restricted to one week as per revised AICTE guidelines. A plethora of events were planned in Induction program. The rationale for induction was to ensure a smooth transition for the students into the university system. The newly admitted students were introduced to century old Osmania University, its culture, values, ethos which has a long and cherished history and stood top in its 100 year journey.

Mr. Navin Mittal IAS has given an inspirational talk to budding Engineers of UCE, OU, he himself being an IIT graduate, stressed the need to face challenges and provide dynamic solutions to the problems facing Nation. Prof M Kumar, Principal of UCE, OU spoke about the new AICTE Model curriculum and features of it. He stressed the need to focus on the goal and achieve excellence in the chosen field and bring laurels to the University College of Engineering, OU. Principal Prof. M Kumar spoke recent developments in the Institution and how they are gearing up to face new challenges and address issues effectively. Further, he said new AICTE model curriculum may bring all round development in the students, Connect with alma mater

The Vice Principal Dr E Vidyasagar , Coordinators Dr K Shashikanth, Dr D Rama Krishna and Dr T Nagaveni expressed that these kinds programs will motivate the students to achieve excellence in their chosen fields. The three week Induction program concluded with SwatchBharath Abhiyan in all the departments.



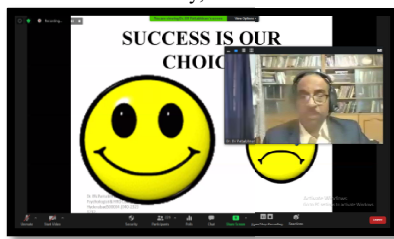
Mr. Navin Mittal IAS delivering invited talk during Inaugural function of Induction Program on 02.12.2020



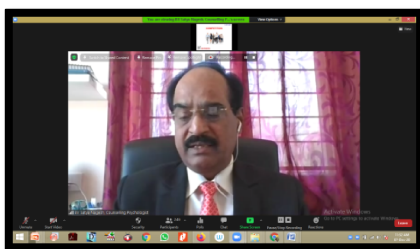
Lecture by one of our alumnus Mr Avinash Mohanty, IPS



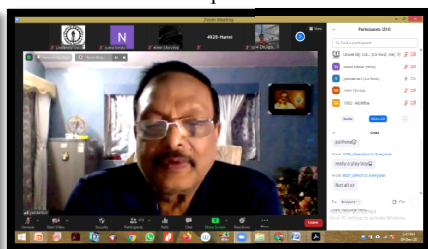
Prof Aravind Nattu, IISER Pune



Dr BV Pattabhiram on Personality Development



TIMES representative delivering lecture employment opportunities



Popular lecture by Yandamuri Veerendranath

GENERAL FACILITIES

University Health Centre:

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

SBH Extension Counter :

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

Canteen:

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

STUDENTS ACTIVITIES CENTRE

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

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

AUDIO-VISUAL LABORATORY

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

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

Facilities:

Following facilities are available in the audiovisual laboratory:

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

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

AWARDS & SCHOLARSHIPS

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

Following Gold Medals are awarded to the students.

Gold Medals for the Academic Year 2017-2018

1. Dr. B.R. Ambedkar Gold Medal: To be awarded to the Topper among all outgoing B.E. students from all Branches of Engineering.
Ms. Namratha Sri Sai Varanasi [100514733025]
2. Biomedical Instrumentation Centre Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Biomedical Engineering.
Ms. Sristi Sri Ramayani [100514731006]
3. Sri K. Ramaswamy Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Civil Engineering.
Ms. Poorelli Naga Shivani Reddy [100514732025]
4. MC Consulting Engineers Pvt. Ltd. Gold Medal: To be awarded to best outgoing student of B.E. - Civil Engineering.
Ms. Poorelli Naga Shivani Reddy [100514732025]
5. 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 B.E. - Civil Engineering.
Ms. Poorelli Naga Shivani Reddy [100514732025]
6. Mr. Bondugula Narsimha Reddy Gold Medal: To be awarded to the student among the outgoing top ten students of B.E. - Civil Engineering whose parental income is least.
Ms. Nagaraju Saidivya [100514732001]
7. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Computer Science & Engineering.
Ms. Kondapuram Alekhya [100514733044]
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. Sonaji Meghana [100514735034]
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. Marru Nikhitha [100514734051]
10. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Electrical & Electronics Engineering.
Ms. Marru Nikhitha [100514734051]

11. Sri. Panthulu Pandari Gold Medal: To be awarded to the student among the outgoing top ten students of B.E. - Electrical & Electronics Engineering whose parental income is least.
Ms. Rachamalla Priyanka [100514734011]
12. Prof. Abid Ali Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Mechanical Engineering.
Mr. Mohammed Noman Ahmed [100514736014]
13. (Late) Sri Sreepathi Parvath Reddy (Retired Tahsildar) Memorial Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. - Mechanical Engineering.
Ms. J Vani Sumohitha [100514736028]
14. Smt. Shaik Fathimabee Gold Medal: To be awarded every year to the outgoing B.E. - Mechanical Engineering 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, then to be awarded to outgoing 1st Ranker.
Mr. Mohammed Noman Ahmed [100514736014]
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.
Ms. Namratha Sri Sai Varanasi [100514733025]
16. (Late) Sri Pendyala Srinivas Gold Medal: To be awarded to the meritorious student scoring the highest marks in "Data Structures" or its equivalent course in B.E. – Computer Science and Engineering curriculum.
Ms. Nagamalli Vijaya Durga Sri Sai [100517733021]
17. (Late) Smt. Lilabai Desai Gold Medal: To be awarded to a Master Degree student for the "Best Thesis in Structural Concrete Construction" of Civil Engineering.
Ms. Sravani Ganji [100516741120]
18. (Late) Sri E. Srinivasa Rao Gold Medal: To be given to the meritorious student of B.E. – Computer Science and Engineering department who secures the highest aggregate marks in first year.
Ms. Dharani Y [100517733011]

Gold Medals the Academic Year 2018-2019

1. Dr. B.R. Ambedkar Gold Medal: To be awarded to the Topper among all outgoing B.E. students from all Branches of Engineering.
Ms. Muthyala Srija Reddy [100515736042]
2. Biomedical Instrumentation Centre Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Biomedical Engineering.
Ms. Nadigepu Ravalika [100515731083]
3. Sri K. Ramaswamy Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Civil Engineering.
Ms. Marri Sreeja Reddy [100515732046]
4. MC Consulting Engineers Pvt. Ltd. Gold Medal: To be awarded to best outgoing student of B.E. - Civil Engineering.
Ms. Marri Sreeja Reddy [100515732046]

5. 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 B.E. - Civil Engineering.
Ms. Marri Sreeja Reddy [100515732046]
6. Mr. Bondugula Narsimha Reddy Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. - Civil Engineering whose parental income is least.
Ms. Mohammed Heena Shagufta [100515732022]
7. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Computer Science & Engineering.
Mr. Chakravarthula Sri Harshavardhan [100515733040]
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. Pendyala Shravya [100515735034]
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. Polepeddy D P Srilekha [100515734040]
10. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Electrical & Electronics Engineering.
Ms. Polepeddy D P Srilekha [100515734040]
11. Sri. Panthulu Pandari Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. – Electrical & Electronics Engineering whose parental income is least.
Mr. Gontala Shyamkumar [100515734085]
12. Prof. Abid Ali Gold Medal : To be awarded every year to the 1st Rank student of B.E. - Mechanical Engineering.
Ms. Muthyala Srija Reddy [100515736042]
13. (Late) Sri Sreepathi Parvath Reddy (Retired Tahsildar) Memorial Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. -Mechanical Engineering.
Ms. Muthyala Srija Reddy [100515736042]
14. Smt. Shaik Fathimabee Gold Medal: To be awarded every year to the outgoing B.E. - Mechanical Engineering 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, then to be awarded to outgoing 1st Ranker.
Ms. Muthyala Srija Reddy [100515736042]
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.
Ms. Polepeddy D P Srilekha [100515734040]
16. (Late) E. Srinivasa Rao Gold Medal: To be given to the meritorious student of B.E. – Computer Science & Engineering who secures the highest aggregate marks in First Year.
Mr. Pannala Sravan Reddy [100518733038]
17. (Late) Sri. Vinjamur Raghavan Gold Medal: To be awarded every year to the best out going “(one Boy and one Girl)” student who has secured highest combined aggregate marks in Engineering Graphics/Drawing, including Auto CADD, Survey (Theory & Practicals), Estimation Costing & Specifications and

Construction Engineering and Management subject of the four year B.E. Curriculum offered in University College of Engineering.

1. Mr. Valusa Nagaraju [100515732025]
 2. Ms. Marri Sreeja Reddy [100515732046]
11. Prof. Abid Ali Memorial Scholarship of Rs. 15,000/-: To be awarded to a meritorious student of 1st year M.E. - Mechanical Engineering from each of the following specializations.
1. Mr. Shaik Rashu [100518745118] : (Production Engineering)
 2. Mr. Jetty Uday Kumar [100518745204] : (Automation & Robotics)
 3. Mr. Ravula Sai Charan [100518745315] : (Turbo-Machinery)

Gold Medals for the Academic Year 2019-2020

1. Dr. B.R. Ambedkar Gold Medal: To be awarded to the Topper among all outgoing B.E. students from all Branches of Engineering.
Ms. Billakanti Likhita [100516735004]
2. Biomedical Instrumentation Centre Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Biomedical Engineering.
Ms. Eppakayala Mounika [100516731083]
3. Sri K. Ramaswamy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Civil Engineering.
Ms. Polu Sreevarsha [100516732043]
4. MC Consulting Engineers Pvt. Ltd. Gold Medal: To be awarded to best out going student of B.E. - Civil Engineering.
Ms. Polu Sreevarsha [100516732043]
5. 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 B.E. - Civil Engineering.
Ms. Polu Sreevarsha [100516732043]
6. Mr. Bondugula Narsimha Reddy Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. - Civil Engineering whose parental income is least.
Mr. Kalyanam Subrahmanyam [100516732024]
7. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Computer Science & Engineering.
Mr. V Aghamarsh [100516733040]
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. Billakanti Likhita [100516735004]
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.
Mr. Salla Adharsh [100516734082]
10. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Electrical & Electronics Engineering.
Mr. Salla Adharsh [100516734082]
11. Sri. Panthulu Pandari Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. – Electrical and Electronics Engineering whose parental income is least.

- Mr. A Kusalava Sarma [100516734001]
12. Prof. Abid Ali Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Mechanical Engineering.
Ms. Patnayakuni Ramya [100516736041]
13. (Late) Sri Sreepathi Parvath Reddy (Retired Tahsildar) Memorial Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. - Mechanical Engineering.
Ms. Patnayakuni Ramya [100516736041]
14. Smt. Shaik Fathimabee Gold Medal: To be awarded every year to the outgoing B.E. Mechanical Engineering 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, then to be awarded to outgoing 1st Ranker.
Ms. Patnayakuni Ramya [100516736041]
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.
Ms. Billakanti Likhita [100516735004]
16. (Late) E. Srinivasa Rao Gold Medal: To be given to the meritorious student of B.E. – Computer Science & Engineering department who secures the highest aggregate marks in First Year.
Ms. Nama Harshitha [100519733031]
17. (Late) Sri. Vinjamur Raghavan Gold Medal: To be awarded every year to the best outgoing "(one Boy and one Girl)" student who has secured highest combined aggregate marks in Engineering Graphics/Drawing, including Auto CADD, Survey (Theory & Practicals), Estimation Costing & Specifications and Construction Engineering and Management subject of the four year B.E. Curriculum offered in University College of Engineering.
1. Ms. Polu Sreevarsha [100516732043]
2. Mr. Devalla Srikanth [100516732011]
18. (Late) Sri Pendyala Srinivas Gold Medal: To be awarded to the meritorious student scoring the highest marks in "Data Structures" or its equivalent course in B.E. – Computer Science and Engineering curriculum.
Mr. Pannala Sravan Reddy [100518733038]

Gold Medals for the Academic Year 2020-2021

1. Dr. B.R. Ambedkar Gold Medal: To be awarded to the Topper among all outgoing B.E. students from all Branches of Engineering.
Ms. Nagamalli Vijaya Durga Sri Sai [100517733021]
2. Biomedical Instrumentation Centre Gold Medal :To be awarded every year to the 1st Rank student of B.E. - Biomedical Engineering.
Ms. Mantena Hema Valli Pratyusha [100517731017]
3. Sri K. Ramaswamy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Civil Engineering.
Mr. Vanteru Akhil Reddy [100517732054]
4. MC Consulting Engineers Pvt. Ltd. Gold Medal: To be awarded to best outgoing student of B.E. - Civil Engineering.
Mr. Vanteru Akhil Reddy [100517732054]

5. 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 B.E. - Civil Engineering.
Mr. Janga Naveen [100517732021]
6. Mr. Bondugula Narsimha Reddy Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. - Civil Engineering whose parental income is least.
Mr. Puttapaka Niranjan [100517732079]
7. OUCE, CSE Alumni Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Computer Science & Engineering.
Ms. Dharani Y [100517733011]
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. Akurati Meghana [100517735002]
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. Ande Vinitha Gowri Devi [100517734005]
10. Sri Neravetla Damodar Reddy Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Electrical & Electronics Engineering.
Ms. Ande Vinitha Gowri Devi [100517734005]
11. Sri. Panthulu Pandari Gold Medal: To be awarded to the student, among the outgoing top ten students of B.E. – Electrical and Electronics Engineering whose parental income is least.
Ms. Ande Vinitha Gowri Devi [100517734005]
12. Prof. Abid Ali Gold Medal: To be awarded every year to the 1st Rank student of B.E. - Mechanical Engineering.
Ms. Kasala Renu Reddy [100517736026]
13. (Late) Sri Sreepathi Parvath Reddy (Retired Tahsildar) Memorial Gold Medal: To be awarded every year to the Top Ranking Girl Student in B.E. - Mechanical Engineering.
Ms. Kasala Renu Reddy [100517736026]
14. Smt. Shaik Fathimabee Gold Medal: To be awarded every year to the outgoing B.E. - Mechanical Engineering 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, then to be awarded to outgoing 1st Ranker.
Ms. Fakiha Muskan [100517736018]
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.
Ms. Nagamalli Vijaya Durga Sri Sai [100517733021]
16. (Late) Sri. Vinjamur Raghavan Gold Medal: To be awarded every year to the best out going “(one Boy and one Girl)” student who has secured highest combined aggregate marks in Engineering Graphics/Drawing, including Auto CADD, Survey (Theory & Practicals), Estimation Costing & Specifications and Construction Engineering and Management subject of the four year B.E. Curriculum offered in University College of Engineering.
1. Mr. Janga Naveen [100517732021]
2. Ms. Dusa Sravanthi [100517732012]

17. (Late) Sri Pendyala Srinivas Gold Medal: To be awarded to the meritorious student scoring the highest marks in “Data Structures” or its equivalent course in B.E. – Computer Science and Engineering curriculum.

Ms. Madharapu Sreeja

[100519733024]

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 redressal 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 the fresher'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.

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:

- 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
- Support for Student Clubs & Other activities
- Organising International Conferences & Symposiums

The Alumni Association advises 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:

Dr. Vijay K. Devarakonda, President

Dr. M. Venkataramayya, 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

directorinfrastuctureuceou@gmail.com

PREAMBLE

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

Contact Officials:

Dr. D. Annapurna
Special Officer (Infrastructure),
University College of Engineering, OU
annapurna.d@uceou.edu

HOSTEL ADMINISTRATION

Ph. No. 040-27682325

University College of Engineering (A), O.U., has Four (04) Boys Hostels Namely Kinnera Hostel (ECH-1), New Kinnera Hostel, Ganga Hostel and Swamamukhi Hostel (ECH-11). BE first year & final year students and all the Three years MCA students are accommodated in Kinnera Hostel (ECH-1) and New Kinnera Hostel, whereas BE Second & Third year students are placed at Ganga Hostel. The Swamamukhi 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 Sriram Venkatesh	Principal	9440408333
2	Prof P Chandra Sekhar	Vice Principal	9866695963
3	Dr. L. Nirmala Devi	Director, Campus Hostels for Women	9949513490
4	Prof. B. Mangu	Addi. Chief Warden & Convener	9849794210
5	Dr Kotilaxmi	Addi. Chief Warden Girls Hostel & Mess	8985415421
6	Dr.K.E.Ch.Vidyasagar	Kinnera Hostel Warden & Kinnera New Hostel Warden	9908143701
7	Mr.E. Madhusudan Raju	Kinnera Hostel Mess Warden	9701948712
8	Dr. M. Shyam Sundar	Swamamukhi Hostel Warden	9885433203
9	Dr. B. Sujatha	Mess Warden, Girls Hostel	9948625313
10	Dr. N. Susheela	General warden, Girls Hostel	9848995532
11	Dr M V Ramana Rao	General warden, Ganga Hostel	9848069129
12	Mr. M. Srinivas	Ganga Hostel Mess Warden	9703063245

Other Important Numbers

S.No	Name	Designation	Phone No.
1	Dr. S. Hari Singh Naik	ChiefWarden, O.U	27682274
2	Prof. B. Rajendra Naik	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
7	Dr. B. Sathaiah	VC Chief Medical Officer	27682278
8	O.U Ambulance		27682351
9	University Health Center		8331040057

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

Emergency Phone Numbers

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

Organisation of Hostels & Messes

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

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

I. Admission and allotment of Accommodation

- Admission into the hostels will be made every year.
- No Admission without accommodation is permissible.
- Students who submit hostel admission form will be consider for admission into Hostel.
- Admission in each hostel will be made strictly according to the actual accommodation available.
- First priority for admission to hostels will be given to SC & ST students from districts based on distance from Hyderabad.

- Second priority for admission to hostels will be given to LBC & EPP students and other students.
- Students seeking SC/ST/LBC/EBC/Minority Scholarship are required to apply for scholarship through online.
- Application for hostel admission must be submitted in person.
- No guarantee on hostel admission is given.
- The allottees must display their names on the door.
- Hostel Admission will be given as per availability of accommodation.
- If any boarder creates obstruction in hostel admission process he will not be allotted hostel room.

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

- No admission without accommodation is permissible.
- No exemption from payment of Establishment charges is permitted till the admission is cancelled and clearance form is submitted.
- No private servants are allowed to work in the Hostels.
- The Service of watchman on duty should not be utilised for the personal work by the Boarders.
- Unauthorised boarders will endanger conviction under section - 447,448 of I.P.C.
- Allotment of rooms will be done by the concerned Hostel Warden as per the rules of Hostel admissions.
- The University shall not be responsible for any theft, loss and damage to the personal belongings of Boarders.
- The Electric Heaters, Stoves, Iron and other appliances are strictly prohibited, Boarders found violating rules will be penalised.
- Problems of the boarders should be brought to the notice of the higher authorities through the Hostel Clerk/Wardens concerned in WRITING.
- If any unauthorized boarder is found in the room the authorised boarder's admission will be cancelled immediately.
- Residents should strictly avoid any arguments with employees. Any complaint against the employees should be made to the Hostel Clerks or Wardens concerned in WRITING.
- Each resident-Boarder shall be responsible for the cleanliness of the surroundings/room.
- Boarders shall switch off the fans and lights while they are away.
- The service of hostel employees should not be utilised by the residents for personal work.
- No exemption from payment of Hostel & Mess charges is permitted till the admission is cancelled and clearance form is submitted.
- Hostel dues shall be paid regularly; unless the Hostel dues are cleared the hostel admission will not be renewed.
- The mess will be closed for a period not exceeding two months during the annual vacation.

- All dishes shall be served and consumed by boarders only in the Dining Hall.

Note: Mess Timings

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

- The Mess charges will be notified by 10th of the following month. All the resident Boarders shall pay the hostel and mess dues before 20th of each month. If the dues are not paid by 20th of the month their mess facility will be stopped.
- Do not keep excess cash in your room keep most of it either in the Post Office or Bank. Lock the door of your room securely. Do not leave your valuables on the table near the window.
- Do not stay and go far out into the fields. Do not accompany any stranger.
- While in the Hostel be in proper dress and when you go out as well.
- Observe all the Hostel Rules as well as the College rules without fail.
- Collect Hostel Identity Card and Mess Card at the time of admission in the Hostel.
- Maintain cordial and harmonious relations with roommates and other boarders of the Hostel.
- Whenever the Boarder does not want to stay in the hostel he has to obtain clearance certificate from the hostel (otherwise the room rent will be charged).
- Mess bill will be uniform for vegetarians and non-vegetarians. The minimum bill shall be charged for full month uniformly.
- Parents should see their Wards pay the mess bills regularly (Mess expenditure) within a fortnight of notification, failing which his/her name will be cancelled from hostel admission.

Note: The Boarders/ Parents needs any clarification may contact Addl. Chief Warden/ Wardens Concerned.

Rules and Regulations of Hostel

- Parents/Guardians/Guests/ Friends of the Boarders can visit only during the stipulated timings given below:-
- **Weekdays:** **4.00 PM to 7.00 PM**
- **and Public holidays:** **10.00 AM to 1.00 PM**
 - **4.00 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: PENALTY FOR RAGGING

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

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

DISMISSAL OF STUDENT

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

**Registrar
Osmania University**

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

Important Note:-

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

Registrar,
Osmania University

University College of Engineering Osmania University

Student Clubs

S.No	Name of the Club	Faculty Coordinator	Mobile No.	Student Representatives	Mobile No.
1	YOUVA	Mr. E. Madhusudhan	9701948712	P. Satya Aravind	8639259265
2	EMc ²	Dr. A. Bharathi	9032805273	Gopal Kaul	8074205633
3	IEEE	Prof. G. Mallesham	9500213334	G. Gaurav Krishna	8500190719
4	Xplore OUCE	Dr. J. Upender	8019784045	M. Ramakrishna	9063235043
5	IEOM	Prof. Sriram Venkatesh	9440408333	P. Satya Aravind	8639259265
6	SAE collegiate Club	E. Madhusudhan Linga Swamy	9701948712 9885538307	Gowtham	9493925530
7	IETE	Dr. M. Shyam Sunder	9885433203	Ruthwik	8977633857
8	Sports Club	Dr. M.V. Ramana Rao Mr. CH. Shiva Kumar	9848069129 9492728449	Hari Krishna	6303995010
9	St.Art Club	Mrs. E.Sreeshoba	9441276995	Shiva Prasad	7981446395
10	Filmtion	Mrs. P.Srividya	9989661601	Keshav	6302895626

YOUVA is a non-governmental organization run by the students of Osmania University. The organization aims to provide welfare services to society and assist the underprivileged in the most effective way possible. YOUVA conducts various programs and events to achieve its goals, including a blood donation camp, visits to orphanages, an awareness run, and book donation drives in hope to spread awareness about social issues, inspire people to take action, and make a positive impact on society. The organization's dedicated members work tirelessly to make a difference and empower those in need.

EMC² is a vibrant music club that provides a platform for students to showcase their musical talents. The club hosts an open mic event, providing the perfect opportunity for students to showcase their skills in dance performances, instrumental music, and poetry readings. The Raaga vocal competition provides talented singers with a platform to showcase their skills in Western, Classical, and Indian music. The club also conducts weekly drum, guitar, and vocal classes for students who want to learn or improve

their musical abilities. Jam sessions provide an interactive and personalized concert experience for students, making EMC² the perfect outlet for music lovers at Osmania University.

IEEE OUCE Student Club is a student-run College technical club run by students from across different branches. They Organize and host technical workshops, lectures, webinars and hackathons to promote hands-on learning and skills development, Collaborate with local tech companies and organizations to offer networking opportunities and internships and Organize community service projects to give back to the local community. They have a strong online presence on social media and a club website. They Foster a positive and supportive learning environment for all members. Unleash your full potential with their club's diverse offerings- choose from six branch-specific societies and join the Women in Tech Empowerment initiative for an all-encompassing tech experience. The Student club also has a robotics and coding club.

Xplore OUCE is the official Media & Broadcasting Club of UCE, OU. It provides a proper platform to broadcast all the events under University College of Engineering, OU. It's a platform for students that provides informative and helpful videos(regarding career guidance etc) in collaboration with skilled and experienced people in the respective field. It also posts interviews and entertainment content.

It rejuvenates all the other clubs in the college by organizing collaborative events and broadcasting about the same on social media platforms.

IEOM Student Chapter of Osmania University College of Engineering is a vibrant community of students, faculty members, and industry professionals who are passionate about advancing the field of industrial engineering and operations management. The chapter serves as a platform for students to learn, network, and develop professionally. Members of the chapter participate in a range of activities, including workshops, seminars, and industrial visits, that help them gain practical insights into the latest developments in the field. The chapter also promotes research and innovation through its various initiatives and encourages students to take on leadership roles, fostering their development as future industry leaders.

SAE Collegiate Club is one of UCEOU's most active clubs. It includes students from all departments of UCEOU. SAE Club will enhance your abilities and interest in the field of automobiles. Our mission is to make skillful Engineers who use their knowledge in advanced mobility for the welfare of society. SAE Club produces student teams and makes them participate in National Competitions like BAJA, SUPRA, EFFICYCLE, and ETWDC.

Our Achievements in 2022:

- 1) Team Bolt participated in EVDC 2022 and stood 1st All over India.
- 2) Team Ecofiets 2.0 participated in ETWDC 2022 and stood 4th All over India.
- 3) Team Invincibles 6.0 participated in Efficycle 2022 and stood 7th All over India.

IETE (Institution of Electronics and Telecommunication Engineers) Society at Osmania University Engineering College is a student-run organization that aims to promote excellence in the field of electronics and tele-communications engineering. The society provides a platform for students to learn and develop their technical skills through various activities such as workshops, seminars, and competitions. It also facilitates interaction between students, faculty, and industry professionals to promote industry-relevant learning and career development. The IETE Society at Osmania University Engineering College strives to create a community of passionate engineers who are equipped with the knowledge and skills to tackle the challenges of the ever-evolving world of electronics and telecommunications.

Sports Club at UCEOU offers a platform for sports enthusiasts to showcase their talents and pursue their passion through various sporting events at college, district, state, and national levels. The club aims to promote a healthy and active lifestyle, providing opportunities to improve skills, build relationships, and develop leadership and teamwork abilities. The inclusive environment welcomes all skill levels and encourages fun and enjoyment alongside competition. The UCEOU Sports Club provides resources for students to excel in their chosen sport and foster a lifelong love for physical activity.

The Students' Art (St.Art) club is a place where students can explore their creativity and passion for art and graphic design. We provide a supportive and collaborative environment where students can learn new techniques, share your work, and get feedback from your peers.

The vision of the club is to spread the joy of creation, bring artists on the campus together, create enriched opportunities and experiences through various events. The aim and goal of this club is to provide an opportunity to students to get into different fields of art and graphic design to help them build their profile.

Filmtan (Photography Club) of Osmania University is a community of enthusiastic and creative individuals who share a passion for capturing the world through their lens. The club's motto is to provide a platform for students who are interested in photography. To come together

and develop their skills in the form of art. Regular meetings, workshops, and competitions are conducted in the club to encourage the members to explore different techniques and styles in photography. The club also organizes photo walks and outdoor trips, to give the opportunity to capture the beauty of nature and the world around them. Filmtown welcomes all the students who are passionate and want to be a part of a vibrant community.