



ESTD. 1917



ESTD. 1929

HAND BOOK 2024-2025

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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	Mechotronics
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 **under graduate** programmes and twenty two **post graduate** 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

*B.E ECE seats are incised from 50 to 60. B.E BME seats are increased from 30 to 40.

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

S.No.	Programmes	Specialisations	Year of Commencement	Sanctioned Intake
1	Civil Engineering	Structural Engineering	1961	25
		Water Resources Engineering	1961	10
		Geotechnical Engineering	1961	10
		Transportation Engineering	2008	15
2	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
3	Electrical Engineering	Industrial Drives and Control	1966	20
		Power Systems	1966	13
		Power Electronics Systems	2008	15
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	Biomedical Engineering	Biomedical Electronics	2006	18
6	Computer Science & Engineering	Computer Science & Engineering	1981	25
		Parallel and Distributed Systems	2007	15
		Artificial Intelligence and Machine Learning	2020	18
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	Mechanical Engg.	Production Engineering	1994	15
		Automation & Robotics	1994	15
		Turbo Machinery	1994	15
3	Electrical Engineering	Industrial Drives and Controls	1971	15
		Power Systems	1971	15
4	Electronics & Communication Engineering	Digital Systems	1975	15
		Systems and Signal Processing	1975	15
		Microwave & Radar Engg..	--	15
5	Bio-Medical Engineering	Bio-Medical Engineering	2022	15
6	Computer Science & Engineering	Computer Science & Engineering	1991	30
7	Mining Engineering	Mining Engineering	2022	15

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

S.No.	Course	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 Part Full time time time	CSE Part Full time time time	CE Part Full time time time	ECE Part Full time time time	EE Part Full time time time	MED Part Full time time time	Total at College level
2020	- -	5+1	- -	04	- -	- -	10
2021	02 02	40 10	19 16	40 31	33 21	63 12	197 92
2022	- -	05	- -	07	- -	- -	12
2023	04 -	42+2* 30	29 39	40+7* 14	33 47	100 37	248+9* 167
2024	00 00	02 04	00 03	07 02	00 02	00 02	09 13
Ph.D's Awarded							
2019-2020	- -	01	03	- -	- -	03	07
2020-2021	- -	04	- -	02	- -	09	- -
2021-2022	- -	08 01	02 01	01 00	02 00	06 00	19 02
2022-2023	- -	02 01	03 01	01 02	01 -	06	13 04
2023-2024	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	Civil Engineering	3Yrs (2019-22)
2	Mechanical Engineering	3Yrs (2019-22)
3	Electrical Engineering	3Yrs (2019-22)
4	Electronics & Communication Engineering	3Yrs (2019-22)
5	Biomedical Engineering	6Yrs (2019-25)
6	Computer Science & Engineering	3Yrs (2019-22)

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

S.No.	Programmes	Specializations	Accreditation
1	Civil Engineering	Structural Engg.	3Yrs (2022-25)
		Water Resources Engg	3Yrs (2022-25)
		Transportation Engineering	3Yrs (2022-25)
2	Mechanical Engineering	Production Engg	3Yrs (2022-25)
		Turbo Machinery	3Yrs (2022-25)
3	Electrical Engineering	Power Systems	3Yrs (2022-25)
		Industrial Drives and Controls	3Yrs (2022-25)
4	Electronics & Communication Engg.,	Digital Systems	3Yrs (2022-25)
5	Computer Science & Engg.	Computer Science & Engg	3Yrs (2022-25)

NIRF & UGC (Autonomous) Details:

S.No.	Title	Details
1	UGC Automous status for the college	2016-2022 (6 years)
2	NIRF 2022 Ranking (University Stream)	22 Rank
3	NIRF 2022 Ranking (Engineering Stream)	117 Rank
4	ISO Certifications: ISO 9001- Quality, ISO 14001 - Green Audit and Environment, ISO 50001 - Energy Audit, ISO 22000 - Food Safety	2023-2024

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 Engineering 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 104 years old Osmania University reaccredited by NAAC with A+ grade for 7 years period up to 2024.

The Institute offers 8 UG programmes and 19 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. 9 PG programs in CIVIL, CSE, ECE, EEE, MECH departments have been accredited for a period of 3 years from 2021, by the NBA. 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 117 Rank by NIRF, MHRD, New Delhi for the year 2022.

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 “Visweswaraya 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.

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9. Prof. P. Chandra Sekhar, Principal (I/c)

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 Mathematics
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	8. Prof.M.Malini (BME)

CANTEEN COMMITTEE

Chairperson	1. Prof. P. Chandra Sekhar (Vice-Principal)
Members	2. Prof. B. Mangu
	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. Dr. P. Lokender Reddy
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. P. Chandra Sekhar
(Principal)

Vice-Chairperson

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

Members

Addl. Chief Warden & Convener

Addl. Chief Warden Girls Hostel & Mess

General Warden Girls Hostel

Mess Warden Girls Hostel

General Warden Kinnera
& New Kinnera Hostels

Mess Warden Kinnera Hostel

General Warden Ganga Hostel

Mess Warden Ganga Hostel

General Warden

Swarnamukhi Hostel

3. All HoDs
4. Prof. B. Mangu
5. Prof. P. Koti Lakshmi
6. Dr. N. Susheela
7. Dr. B. Sujatha
8. Dr. K.E. Ch. Vidyasagar
9. Dr. E. Madhusudan Raju
10. Dr. M.V. Ramana Rao
11. Mr. M. Srinivas
12. Dr. M. Shyam Sunder

STUDENT'S GRIEVANCES REDRESSAL COMMITTEE (SGRC)

Prof. P. Chandra Sekhar (Vice-Principal)

Addl. Chief Warden, (Boys)

Addl. Chief Warden, (Girls)

HoD Concerned

Coordinator, 1st year class room complex

Chairperson

Member

Member

Co-opted Member

Co-opted Member

EMPLOYEE'S GRIEVANCE COMMITTEE

Chairperson

Senior Teacher Nominated

Convener

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

2. Sr.Prof. V. Bhikshma

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. Dr. 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 | Lady 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

S.No.	Name of the Staff	Position	Designation	Telephone No
1	Prof. P. Chandra Sekhar	Chairperson	Principal	9866695963
2	Prof. P. Chandra Sekhar	ViceChairperson	Vice Principal	9866695963
3	Prof. M.Malini	Member	Head, Dept. of BME	9849648110
4	Prof. P. Raja Sekhar	Member	Head, Dept. of Civil	9989597500
5	Prof. P.V.Sudha	Member	Head, Dept. of CSE	9492754480
6	Prof. E.Vidya Sagar	Member	Head, Dept. of EE	9985256268
7	Prof. D.Ramakrishna	Member	Head, Dept. of ECE	9441154911
8	Prof. M. Chandra Sekhar Reddy	Member	Head, Dept. of ME	9866584298
9	Dr. N. Narsimlu	Member	Head, Dept. of Physics	9949617555
10	Dr. P. Sarita Rajender	Member	Co-ordinator, S & H Block	9000282879
11	Dr. Saveen Souda	Member	Head, Dept. of English	9989565645
12	Dr. K. Ramesh Babu	Member	Dept. of Maths	8790362554
13	Prof. B. Mangu	Member	Addl. Chief Warden Hostel	9849794210
14	Prof. P. Koti Lakshmi	Member	Addl. Chief Warden Girls Hostel & Mess	8985415421
15	Prof. B. Sunil Kumar	Member	Physical Director	7032479481
16	Dr. E.Madhusudhan Raju	Member	NSS PO Unit-I	9701948712
17	Mr.K.E.Ch.Vidyasagar	Member	Warden, Kinnera Hostel	9908143701
18	Dr. E. Madhusudhan Raju	Member	Mess Warden, Kinnera Hostel	9701948712
19	Dr. N. Susheela	Member	General Warden, Girls Hostel, UCE	9848995532
20	Dr. N. Susheela	Member	Public Relation Officer	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	9848069129
25	Mr. M. Srinivas	Member	Mess Warden, Ganga Hostel	9703063245
26	Mr. K. Rajender	Member	Deputy Registrar	9949900533

Student Representatives				
27	Ms. J. Sri Medha	Student Members		9381628825
28	Mr. Charan Reddy			9542812006
29	Mr. Ch. Mahanth			6303050657
30	Ms. Varshitha			7680052519
31	G. Ramsai			9652157963
32	Mr. Ramcharan			7075226558
33	Mr. C. Nageswar Rao	Parent Members		9866227250
34	Mr. PVV RamanaMurty			996919484
OTHER IMPORTANT TELEPHONE NUMBERS				
Prof. B. Rajendra Naik Dean, Student Affairs, O.U		9441222226	Sector SI, OU Police Station	8712660564
University Health Center, O.U Campus		8331040957	Police Patrol Team-1	8333992198
Police Station, O.U		040-27853570	Police Patrol Team-2	8333992199
Circle Inspector, OU, PS		8712660560	OU Police Special Team	7901102380

ANTI RAGGING SQUADS

Squad – I (GENERAL)

S.No.	Name of the Staff	Position	Designation	Tele. No
1	Prof.V. Uma Maheshwar	Convener	Professor	9885085670
2	Dr. E. Madhusudhan Raju	Member	Asso. Professor	9701948712

Squad – II (CANTEEN)

S.No.	Name of the Staff	Position	Designation	Tele. No
1	Prof.D.Ramakrishna	Convener	Professor	9441154911
2	Dr. M. Shyam Sunder	Member	Asst. Professor	9885433203

Squad – III (LIBRARY/ SPORTS)

S.No	Name of the Staff	Position	Designation	Tele. No
1	Prof.E. Vidyasagar	Convener	Professor	9985256268
2	Dr. B. Sujatha	Member	Asst. Professor	9948625313

Squad – IV (HOSTELS)

S.No.	Name of the Staff	Position	Designation	Tele. No
1	Sr.Prof. V. Bhikshma	Convener	Professor	9949638885
2	Prof.D. Rajashekar Reddy	Member	Professor	9493190672

Squad – V (1st Year – H & S)

S.No.	Name of the Staff	Position	Designation	Tele. No
1	Dr. N. Narsimlu	Convener	Asso. Professor	9949617555
2	Dr. K. Ramesh Babu	Member	Asst. Professor	8688767039



LIST OF MENTORS

I.Civil Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st & 2 nd Sem.	Mrs. P. Anuradha	9949373244
2.	B.E. 3 rd & 4 th Sem.	Dr. Harish Gupta	6301921871
3.	B.E. 5 th & 6 th Sem.	Mrs. A. Usha Sri	9866248415
4.	B.E. 7 th & 8 th Sem.	Mr. L. Ajay Kumar	9160989555
5.	M.E. (Structural Engineering)	Mrs. P. Anuradha	9949373244
6.	M.E. (Water Resources Engineering)	Prof. K. Shashikanth	9440951800
7.	M.E. (geotechnical Engineering)	Prof. M. V. S. Sreedhar	9848487187
8.	M.E. (Construction Engineering and Management)	Dr. (Ms.) S V S N D L Prasanna	9866055943
9.	M.E. (Transportation Engineering)	Prof. D. Rajashekar Reddy	9493190672
II.Mechanical Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st & 2 nd Sem.	Prof. K. Saraswathamma	9032714222
2.	B.E. 3 rd & 4 th Sem.	Mr.E. Madhusudhan Raju	9701948712
3.	B.E. 5 th & 6 th Sem.	Prof. A. Krishnaiah	9440834065
4.	B.E. 7 th & 8 th Sem.	Prof. P. Usha Sri	9885899584
5.	M.E. (A&R)	Mr E Madhusudan Raju	9701948712
6.	M.E. (PE)	Dr T Nagaveni	9966998860
7.	M.E. (TM)	Prof. G. Narendar	9160003716
8.	M.E. (TD)	Prof. A Krishnaiah	9440834065
III.Electrical Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. I & II Semesters	Mrs. G. Jhansi Rani	
2.	B.E. III & IV Semsters	Dr. R. Lingaswamy	
3.	B.E. V & VI Semsters	Dr. S.Vijender Reddy	
4.	B.E. VII & VIII Semseters	Sr. Prof. G. Yesuratnam	
5.	ME. (IDC)	Dr. M. V. Ramana Rao	
6.	ME. (PS)	Dr. Ch. Siva Kumar	
7.	ME. (PES)	Dr. B. Sirisha	
IV. Electronics and Communication Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st & 2 nd Sem.	Dr.M.Shyamsunder	9885433203
2.	B.E. 3 rd & 4 th Sem.	Mr.M.Misbhauddin	9247184538
3.	B.E. 5 th & 6 th Sem.	Dr.R.Sandhya	9985701533
4.	B.E. 7 th & 8 th Sem.	Mrs.Srividya	9849199894
5.	ME. (DS)	Prof.P.Koti lakshmi	8985415421
6.	ME. (ES VLSI)	Prof. P. Naveen Kumar	9985701254
7.	ME. (MRE)	Prof. D. Ramakrishna	9441154911
8.	ME. (SSP)	Prof. L.Nirmala Devi	9949513490

V. Biomedical Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st & 2 nd Sem.	Prof. M.Malini	9849648110
2.	B.E. 3 rd & 4 th Sem.	Dr. K. Harish	9866289232
3.	B.E. 5 th & 6 th Sem.	Mrs. G. Shravanya	9515359973
4.	B.E. 7 th & 8 th Sem.	Mr. M.Srinivas	9703063245
5.	M.E. (BME) 1 st Year	Mr. Kiran Kore	9502161026
6.	M.E. (BME) 2 nd Year	Dr.K.E.Ch.Vidyasagar	9908143701
VI.Computer Science Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. CSE 1st & 2nd Sem.	Mr.L.K.Suresh Kumar	9492430755
2.	B.E. CSE 3rd& 4th Sem.	Mr.M.Venkat Dass	9440488428
3.	B.E. CSE 5th& 6th Sem.	Mr.S.Srinivasa Rao	9848117486
4.	B.E. CSE 7th& 8th Sem.	Prof.P.V.Sudha	9492754480
5.	B.E. AI&ML 1st & 2nd Sem.	Prof. P. V. Sudha	9492754480
6.	M.Tech.(CSE,AI&ML) I & II Year	Dr. I. Govardhana Rao	9704698876
7.	MCA 2 Years Course	Dr. B. Sujatha	9948625313
VII.Mining Engineering			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st & 2 nd Sem.	Dr. Harish Gupta	6301921871
2	M.E. (Mining Engg)	Dr. Harish Gupta	6301921871
VIII.Chemistry			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st Sem. (BME)	Dr. P. Sarita Rajender	9000282879
	B.E. 2 nd Sem. (AIML)	Dr. P. Sarita Rajender	9000282879
2.	B.E. 1 st Sem.(Civil)	Dr. V. Vani	7893855746
	B.E. 2 nd Sem. (CSE)	Dr. V. Vani	7893855746
3.	B.E. 1 st Sem.(Mechanical)	Dr. G. Sujatha	9490255819
	B.E. 2 nd Sem. (EEE)	Dr. G. Sujatha	9490255819
4.	B.E. 1 st Sem.(Mining)	Mrs.P. Reshma	9052499330
	B.E. 2 nd Sem. (ECE)	Mrs.P. Reshma	9052499330

List of Teaching Staff with Contact details

S.No	Name	Designation	Mobile No.	E-mail ID
1.	Prof.P.Chandra Sekhar	Principal	9866695963	sekharpaidimarry@gmail.com
2.	Prof.P.Chandra Sekhar	Vice Principal	9866695963	sekharpaidimarry@gmail.com
Biomedical Engineering				
3.	Prof. M. Malini (Head)	Professor	9849648110	malini.m@uceou.edu
4.	Dr. Dabbu Suman	Asso. Prof.	8897855138	dabbu_suman@osmania.ac.in
5.	Dr. M. Srinivas	Asst. Prof.	9703063245	srinivas.m@uceou.edu
6.	Dr. G. Shravanya	Asst. Prof.	9515359973	shravanya.g@uceou.edu
7.	Dr.K.E.Ch.Vidyasagar	Asst. Prof.	9908143701	vidyasagar.k@uceou.edu
8.	Mrs. B. Gayathri	Asst.Prof(C)	9491115854	gayathri.b@uceou.edu
9.	Mr. Kiran Kore	Asst.Prof(C)	9502161026	kiran.k@uceou.edu



S.No	Name	Designation	Mobile No.	E-mail ID
10.	Dr. K. Harish	Asst.Prof(C)	9866289232	harish.k@uceou.edu
Civil Engineering				
11.	Prof. K. L. Radhika (Head)	Professor	9849130279	radhikaou@yahoo.com
12.	Sr.Prof. M. Kumar	Sr.Professor	9849411656	kumartrans@gmail.com
13.	Prof. N. Suresh Kumar	Sr.Professor	9441603791	nskdr@yahoo.co.in
14.	Sr.Prof. V. Bhikshma	Sr.Professor	9949638885	v.bhikshma@yahoo.co.in
15.	Prof. M. Gopal Naik	Professor	9490685098	mgnaikc@gmail.com
16.	Prof. P. Raja Sekhar	Professor	9989597500	prscivilou@gmail.com
17.	Prof. M. V. S. Sreedhar	Professor	9848487187	sreedgteou@gmail.com
18.	Prof. K. Shashikanth	Professor	9440951800	kulkarni.shashikanth@gmail.com
19.	Prof. D. Rupesh Kumar	Professor	9985542205	rkdhondy@gmail.com
20.	Prof. D. Rajashekar Reddy	Professor	9493190672	dudipalars@yahoo.com
21.	Prof. R. Srinivasa Kumar	Professor	9491124241	rungoz@yahoo.com
22.	Prof. D. Annapurna	Professor	9866832758	annapurna_ouce@yahoo.com
23.	Dr. S. V. S. N. D. L. Prasanna	Asso. Prof.	9866055943	pras_ced@osmania.ac.in
24.	Dr. P. Anuradha	Asst. Prof.	9949373244	anuradhaouce@gmail.com
25.	Mr. R. Rajender	Asst. Prof.	7799061696	rajenderrampally@gmail.com
26.	Dr. Harish Gupta	Asst. Prof. (UGC-FRP)	6301921871	harishgupta78@gmail.com
27.	Mrs. A. Usha Sri	Asst.Prof(C)	9866248415	ushaamancherla@gmail.com
28.	Mr. L. Ajay Kumar	Asst.Prof(C)	9160989555	ajay.ouce@gmail.com
Computer Science Engineering				
29.	Prof. P.V. Sudha (Head)	Professor	9492754480	sudhapv23@gmail.com
30.	Prof. K. Shyamala	Professor	9490219882	prkshyamala@yahoo.com
31.	Mr. S. Srinivas Rao	Assoc. Prof.	9848117486	ssrinivas.ou@gamil.com
32.	Dr.L. K.Suresh Kumar	Assoc. Prof.	9492430755	suresh.lokhande@gmail.com
33.	Dr. M.Venkat Dass	Assoc. Prof.	9440488428	vmaredu@gmail.com
34.	Dr. V.B. Narsimha	Asst. Prof.	9440289828	vbnarasimha@gmail.com
35.	Dr. B. Sujatha	Asst. Prof.	9948625313	suajata.banothu@gmail.com
36.	Dr. M. A. Hameed	Asst. Prof.	9849638102	professor.hameed@gmail.com
37.	Mrs. E. Pragnavi	Asst. Prof.	8008557755	pragnavi@gmail.com
38.	Mrs. V.Sukanya	Asst. Prof.	9100951520	vuppala.sukanya@gmail.com
39.	Dr. I. Govardhana Rao	Asst.Prof(C)	9704698876	Igrao10@gmail.com
40.	Mrs. A. Gayathri	Asst.Prof(C)	9396652396	gayathri.avuta@gmail.com
41.	Mr. M.Narender Reddy	Asst.Prof(C)	9440591069	narendarreddy@gmail.com
42.	Mr. K.Satyanarayana	Asst.Prof(C)	9246802146	Satya0401@yahoo.gmail.com
43.	Mrs. K.Jaya	Asst.Prof(C)	9177444855	Kasturi_jaya@yahoo.co.in
44.	Dr.C.Vani	Asst.Prof(C)	8985883404	Vanisundar2009@gmail.com
Electrical Engineering				
45.	Prof. E. Vidyasagar (Head)	Professor	9985256268	vidyasagar@osmania.ac.in
46.	Sr.Prof. G. Yesuratnam	Sr Professor	9963905932	ratnamgy2003@yahoo.co.in
47.	Prof. M.Manjula	Professor	9948915758	manjulagooga@yahoo.com
48.	Prof. B. Mangu	Professor	9849794210	bmanguou@gmail.com
49.	Prof. G. Malleshham	Professor	9502133334	malleshhamg@yahoo.com
50.	Prof. P. Srinivas (F.S)	Professor	9885364862	srinivasp.eedou@gmail.com
51.	Prof. P. Satish Kumar	Professor	9849072342	satish_8020@yahoo.co.in
52.	Dr. M.V. Ramana Rao	Assoc. Prof.	9848069129	ramanarao2@yahoo.co.in



S.No	Name	Designation	Mobile No.	E-mail ID
53.	Dr. Ch. Siva Kumar	Assoc. Prof.	9892728449	ch_siva_kumar@rediffmail.com
54.	Dr. N. Susheela	Assoc. Prof.	9848995532	nsusheela2007@yahoo.com
55.	Dr. N. Srilatha	Assoc. Prof.	9912041450	srilatha.sesham@gmail.com
56.	Dr. B. Sirisha	Assoc. Prof.	9440347320	sirishab2007@yahoo.com
57.	Dr.G.V. Naga Lakshmi	Asst. Prof.	9492047114	gvnlakshmi@rediffmail.com
58.	Dr. E. Sree Shobha	Asst. Prof.	9441276995	shobhasree555@gmail.com
59.	Dr. R. Linga Swamy	Asst. Prof.	9885538307	rlswamy@gmail.com
60.	Dr. P. Lokender Reddy	Asst. Prof.	7661873344	lokender.p@uceou.edu
61.	Dr. J. Upendar	Asst. Prof.	8500003210	dr.8500003210@gmail.com
62.	Mrs. U. Suryavalli	Asst. Prof.	8978151429	108.surya@gmail.com
63.	Mrs. G. Jhansi Rani	Asst.Prof(C)	9603230936	jhansirani99@yahoo.co.in
64.	Dr. S. Vijender Reddy	Asst.Prof(C)	9492529697	vijender_100@yahoo.co.in
65.	Mr. G. Kiran Kumar	Asst.Prof(C)	9652089997	sirigollapalli@gmail.com
Electronics & Communications Engg.				
66.	Prof. D. Ramakrishna (Head)	Professor	9441154911	dasariramakrishna@osmania.ac.in
67.	Prof. L. Nirmala Devi	Professor	9949513490	nirmaladevi@osmania.ac.in
68.	Prof. P. Chandra Sekhar	Professor	9866695963	sekharpaidimarry@gmail.com
69.	Prof. B. Rajendra Naik	Professor	9441222226	rajendranaikb@osmania.ac.in
70.	Prof. P. Naveen Kumar	Professor	9985701254	drnaveenkumar9@osmania.ac.in
71.	Prof. P. Koti Lakshmi	Professor	9895415421	lakshmiponnuri@osmania.ac.in
72.	Dr. A. Bharathi	Assoc. Prof.	8179937278	bharathig8@gmail.com
73.	Dr. R. Sandhya	Assoc. Prof.	9985701533	reddysandhya28@gmail.com
74.	Mrs. P. Padma	Asst. Prof.	9985644039	padmadandiyala@gmail.com
75.	Dr. M. Shyam Sunder	Asst. Prof.	9885433203	shyamsunder@osmania.ac.in
76.	Mr. Md. Misbahuddin	Asst. Prof.	9247184538	misbah426@gmail.com
77.	Mrs. P. Srividya	Asst. Prof.	9989661601	puttysrividya8@gmail.com
78.	Mr. Premkumar	Asst.Prof(C)	9908214131	premkumarkondi@gmail.com
79.	Mr.R.Narendra Reddy	Asst.Prof(C)	9177765762	narendrareddy@osmania.ac.in
80.	Mr.G.Kishore Kumar	Asst.Prof(C)	8686937017	gundati.kishore@gmail.com
81.	Mr.B.Ramesh	Asst.Prof(C)	8897355552	rams.chanti@gmail.com
Mechanical Engineering				
82.	Dr. M. Chandra Sekhar Reddy (Head)	Professor	9866584298	mcsreddy@osmania.ac.in
83.	Sr. Prof.P.Laxminarayana	Sr.Professor	9346917018	plaxou@yahoo.com
84.	Sr. Prof.Sriram Venkatesh	Sr.Professor	9440408333	venkatmech@yahoo.com
85.	Sr. Prof.A. Krishnaiah	Sr.Professor	9440834065	arakanti@gmail.com
86.	Sr. Prof. P. Usha Sri	Sr.Professor	9885899584	emailushasri@yahoo.com
87.	Dr. P. Ramesh Babu	Professor	9440546858	prbmechou@yahoo.com
88.	Dr. R. Rajendra	Professor	9494560763	regaraj@yahoo.com
89.	Dr. B. Hadya	Professor	9440349195	hadya.ou@gmail.com
90.	Dr. K. Saraswathamma	Professor	9032714222	saraswathi.ouce@gmail.com
91.	Dr. NarsimhuluSanke	Professor	9885415325	nsanke@gmail.com
92.	Dr. L. Siva Rama Krishna	Professor	9849867046	lsrkou@gmail.com
93.	Dr. G. Narender	Professor	9160003716	gajulanarendar@yahoo.com
94.	Dr. V. Uma Maheshwar	Professor	9885085670	mahesh.v@uceou.edu
95.	Dr. M.V. Ramana Murthy	Assoc. Prof.	9849323139	mvramanamurthy@rediffmail.com
96.	Dr. E. Madhusudan Raju	Assoc. Prof.	9701948712	madhusudhan.e@uceou.edu
97.	Dr. T. Nagaveni	Assoc. Prof.	9966998860	tnagaveni@gmail.com
98.	Dr. T.S.R.V. Padmalatha	Assoc. Prof.	9985491524	tsrvpadma@yahoo.co.in



S.No	Name	Designation	Mobile No.	E-mail ID
99.	Dr. K. Buschaiah	Engineer	9440873690	bkarolla@gmail.com
100.	Dr. G. Venkateswarlu	Asst. Prof(C)	9440154984	gadadasu_venkat@yahoo.co.in
101.	Dr. K.L. Uday Kiran	Asst. Prof(C)	9959738537	ukiran1703@gamil.com
102.	Dr. K. Venkateswarlu	Asst. Prof(C)	9490219028	katarapu_v@yahoo.com
103.	Dr. U. Ashok Kumar	Asst. Prof(C)	9966036324	uak.mech.osmania@gmail.com
104.	Mr. M. Prakash	Asst. Prof(C)	7799999595	prakash.oumech@gmail.com
Physics				
105.	Dr. Ch. Srinivas (Head)	Asso. Prof	9390054389	drchshphy.ou@gmail.com
106.	Dr. N. Narsimlu	Asso. Prof	9949617555	narsimluou@gmail.com
107.	Ms. R. Swarna Latha	Asst.Prof(C)	9949744133	swarnalatha424@gmail.com
108.	Dr. K. Krishna Murthy Goud	Asst.Prof(C)	9492945258	krishnamurthy.phy@gmail.com
109.	Dr. B.Ashok	Asst.Prof(C)	9966480080	log4ashok@gmail.com
Chemistry				
110.	Dr. P. Sarita Rajender (Head)	Asso. Prof	9000282879	saritarajender@gmail.com
111.	Mrs. V. Vani	Asst. Prof(C)	7893855746	vani.lns@gmail.com
112.	Mrs. G. Sujatha	Asst. Prof(C)	9490255819	gujjula.sujatha@gmail.com
113.	Mrs. V.Sreedevi	Asst. Prof(C)	9885292810	vsdevi15@gmail.com
114.	Mrs. P. Reshma	Asst. Prof(C)	9052499330	reshma.reddy860@gmail.com
English				
115.	Dr. Saveen Souda (Head)	Asso. Prof	9989565645	savisou@gmail.com
116.	Mrs. Suma Bindu Pothuri	Asst. Prof(C)	9985856507	sumabindutrainee@gmail.com
117.	Dr. Lakshmi Mantha	Asst. Prof(C)	9849752655	laksrimantha@yahoo.co.in
Mathematics				
118.	Dr. K. Ramesh Babu (Head)	Asst.Prof.	8688767039	ramesh.kasba@gmail.com
119.	Dr. Y.Rameshwar	Asso. Prof	8977241872	rameshwar@osmania.ac.in
120.	Dr. Pothu Thirupathi	Asst. Prof(C)	9949325015	thrupathi@gmail.com
121.	Mr. K. Ramalingaiah	Asst. Prof(C)	9010015790	Kadarirama2@gmail.com
Dept. of Physical Education				
122.	Dr. B. Sunil Kumar (Head)	Professor	7032479481	drbsk.sport@gmail.com
Library				
123.	Dr. P. Damodhar	Library Asst.	9059405311	pdamodhar@yahoo.com
Mining Engineering (Guest Faculty)				
124.	Mr. Ch.Venkat Ramana	Guest faculty from SCCL		
125.	Mr. M. Satish Kumar	Guest faculty from SCCL		
126.	B. Papa Rao	Adjunct Faculty		
127.	Dr. B. Prasad	Adjunct Faculty		

Awards/ Fellowship received by the College/Faculty

S.No	Nature of Award	Person/ Institute Received	Year of Award
1.	Best Teacher Award by Government	Prof. Shanta Ram Dept. of Civil Engg.	2000
2.	Best Teacher Award by Government	Prof. D. C. Reddy Dept. of ECE	2000
3.	Best Teacher Award by Government	Prof. D. Babu Rao Dept. of Civil Engg.	2001
4.	Performance Excellence award	Mr. N. Diwakar, Chairperson, BoG	2002
5.	Best Teacher Award by Government of AP	Prof. Pandari Pande Dept. of ECE	2002
6.	Best Engg. College Award in the Country by the ISTE	UCE, OU	2003
7.	Sir M.Vishweshwaraiah Award for outstanding Engineer	Prof. Pandari Pande Dept. of ECE	2003
8.	Prof. K. Sreenivasan Memorial IETE award	Prof. Pandari Pande Dept. of ECE	2003
9.	Padmasri	Mr. N. Diwakar Chairperson, BoG	2004
10.	Best Teacher Award by Government	Prof. K. V. Chalapati Rao, Dept. of CSE	2005
11.	Best PhD award from IIT Madras	Sr. Prof. A. Krishnaiah Dept. of MED	2006
12.	Best Teacher Award by Government	Prof. A. D. Rajkumar, EED	2007
13.	Prof.S.C.Aiya Memorial IETE Award	Prof. Pandari Pande Dept. of ECE	2007
14.	ICI: Altra-tech endowment award	Prof. P. Rao, Civil Engineering Dept.	2007
15.	ISTE Anna university National Award	Prof. Pandari Pande Dept. of ECE	2009
16.	Vishwakarma Award by CIDC, Planning Commission, Govt. of India	Prof VSS Kumar Dept. of CED	2011
17.	M.S.Jain memorial National Award(Best paper) by IGC, India	Sr.Prof.Kumar Molugaram Dept. of CED	2012
18.	Best Teacher Award by Government of AP	Prof.E. Suresh Kumar	2012
19.	Best Teacher Award by Government of AP	Prof. S. Ramachandram Dept. of CSE	2013



S.No	Nature of Award	Person/ Institute Received	Year of Award
20.	Indian Concrete Institute(APHC)- Ultratech Endowment Award.	Prof. Ravande Kishore Dept. of CED	2013
21.	POSOCO Power System Award	Dr. G. Mallesham Dept. of EED	2013
22.	ISCA Young Engineer Award	Dr. G. Mallesham Dept. of EED	2013
23.	Academic Research Award of excellence by AMSI	CPTIP, MED, UCE, OU	2014
24.	Best Teacher Award- 2014 by Government of Telangana	Dr. P. Satish Kumar Dept. of EED	2014
25.	Award for Research Excellence, From Indo-Global Education Expo & Summit 2014	Dr. P. Satish Kumar Dept. of EED	2014
26.	Best research paper award in Internation conference ACSME- 2014, Bangkok	Sr.Prof.M.Kumar Dept. of CED	2014
27.	Global Teacher Role Model Award- 2015	Dr. P. Satish Kumar Dept. of EED	2015
28.	Young Faculty Research Fellowship” under Visvesvaraya Scheme	Dr. B. Rajendra Naik Dept. of ECE	2016
29.	Distinguished Faculty in Engg award by Venus International Foundation,	Prof. M. Gopal Naik Dept. of CED	2017
30.	Best Academician Award by Smart –Infrest – Engineering Services Trust	Sr.Prof. V. Bhikshma Dept. of CED	2017
31.	Best Teacher Award- 2017 by Government of Telangana	Prof. S. Sameen Fatima Dept. of CSE	2017
32.	Engineer of the Year -2016 Institute of Engineers, Telengana Chapter	Sr.Prof. Sriram Venkatesh Dept. of MED	2017
33.	Best Teacher Award- 2018 by Government of Telangana	Sr.Prof. M. Kumar Dept. of CED	2018
34.	Engineer of the Year-2018 Institute of Engineers, Telengana Chapter	Sr.Prof. M. Kumar Dept. of CED	2018
35.	“Best Teacher Award 2019” by Government of Telangana.	Sr.Prof. Sriram Venkatesh Dept. of MED	2019

S.No	Nature of Award	Person/ Institute Received	Year of Award
36.	Jala Ratna Award- 2019 By Institute of Engineers on the eve of birth anniversary of Late Er. R. Vidyasagar Rao.	Prof. M. Gopal Naik Dept. of CED	2019
37.	Engineer of the year award by The Institute of Engineers, Hyderabad Chapter.	Prof. G. Malleshham Dept. of EED	2019
38.	Vishweshwaraya Best Faculty Award by Smart Infrastr Trustee of India	Sr.Prof. M. Kumar Dept. of CED	2019
39.	Meritorious Teacher Award-2020 to University Teachers by Government of Telangana	Sr.Prof. A. Krishnaiah Dept. of MED	2020
40.	Meritorious Teacher Award-2020 to University Teachers by Government of Telangana	Prof. M. Gopal Naik Dept. of CED	2020
41.	Best Teacher Award-2020 to University Teachers by Government of Telangana	Prof. G. Malleshham Dept. of EED	2020
42.	“CHSN2020 -Young Researcher Award”(Presented by Chairman, AP State Council for Higher Education, VC JNTUK and VC Rayalaseema University)	Prof. P. Naveen Kumar	2020
43.	Engineer of the Year award-2020 Awarded by Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana	Prof. M. Gopal Naik	2020
44.	Bharat Ratna sir Mokshagundam Vishveshwaraiah Award for IEI & Govt. of Telangana	Sr.Prof. Sriram Venkatesh	2021
45.	Vice Chancellors Award for Research Excellence	Dr. K. E. Ch. Vidyasagar	2022
46.	Best Teacher Award- 2022 by Government of Telangana	Prof.P. Raja Sekhar	2022
47.	Engineer of the Year award-2022 Awarded by Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana	Prof. P. Satish Kumar	2022

List of Ph.Ds Awarded by UCE, OU for the year 2023-2024

S.No.	Supervisor Name	Student Name	Title of Thesis
Civil Engineering Department			
1	Prof.V.Bhikshma	Mr. S. Gangaram	Strength and Durability Characteristics of Recycled Aggregate Concrete
2	Dr. Harish Gupta	Mr. S. Kiran Kumar Reddy	Biogeochemistry of Carbon in the Western Ghats Coastal Rivers, India
Mechanical Engineering Department			
1	Prof. Sriram Venkatesh	Mr. Narayana Battula	Experimental Investigations on Building of Quality Prototypes by SLS 3D Printing Process: Parametric Optimisation By Taguchi Method
2	Prof. M.V.S. Murali Krishna (Retd.)	Mr. G. Srinivas Sharma	Experimental Investigation on Biomass integrated gasifier / gas turbine technology for power generation
3	Prof. P. Usha Sri Prof. M.V.S. Muralikrishna (Retd.)	Ms. Indira Priyadarsini	Studies on Control of Emissions from Spark Ignition Engine
4	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
5	Prof. D.N. Reddy (Retd.)	Mr. A.V. Sudhakar Reddy	Integrated Development of Divert Thruster Flight Propulsion Control System(DTFPCS) Simulation Model
6	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
7	Prof. Sriram Venkatesh Dr. K. Balasubramanian	Mr. Rahul SH	Microfabrication using 3D inkjet printing process for manufacture of functionally graded oxide materials
8	Prof. P.Laxminarayana	Mr. Ashok Kumar	Experimental Investigation of Micro Hole Machining Using Die Sinker EDM with Taguchi Approach
Electrical Engineering Department			
1	Prof. G. Yesuratnam	CV Gopalakrishna Rao	Big Bang - Big Crunch Based Optimal Economic and Emission Dispatch
2	Prof.	A. Sriker	A Practical Approach to Distribution

S.No.	Supervisor Name	Student Name	Title of Thesis
	G.Yesuratnam		System Analysis and Optimization
3	Prof. G.Yesuratnam	P.Lokender Reddy	Application of Hybrid Evolutionary Algorithms to Optimal Reactive Power Dispatch
4	Prof. G.Yesuratnam	Sree Naga Gouri Sarada Devi	Methodologies to Reduce Computational Complexity in Power System State Estimation
5	Prof.E.Vidyasagar	E.Sreeshobha	Unified Power Flow Controller to Enhance the performance of Composite Power System
6	Prof.M.Manjula	B.Sravanthi	Pollution performance of composite insulators removed from service
7	Prof.M.Manjula	S.Vijender Reddy	Performance Evaluation of Radial Distribution Network with Distributed Generation using Optimization Algorithms
8	Prof.B.Mangu	Ravi Bukya	Design and Performance Evaluation of Magnetic coupling coils for wireless charging system with different configurations
9	Prof. G. Malleshham	CH.Siva kumar	Optimal Design and Control of UPQC to Improve the Power Quality of Hybrid Renewable Systems
10	Prof. G. Malleshham	M.V.Ramana Rao	Design and Analysis of Brushless DC Motor by an Expert system
11	Prof.P.Satish Kumar	Ratna Kishori	Reduced source switched capacitor multilevel inverter with voltage balancing features
12	Prof.P.Satish Kumar	Ravikumar Bukha	Analysis design and implementation of pulse width modulation technique for multi-level inverter fed induction motor drive
13	Prof. A. Jaya Laxmi	Mr.S. Asha Kiranmai	Analysis and Mitigation of Various power quality problems in distribution system
14	Dr. M. Charkravarthy	G. Sandhya Rani	Simulation and Analysis of Power System Load Flow solutions with Data Uncertainty Contingency and Voltage stability using Artificial Intelligence Techniques
Electronics & Communications Engineering Department			
1	Prof.KakarlaSubba Rao	Mr. M.Shyamsunder	Classification and Estimation of modulation parameters of LPI Radar
2	Prof.Krishna	Mr. P.Sathish	Investigation of performance analysis

S.No.	Supervisor Name	Student Name	Title of Thesis
	Reddy		satellite-based Navigation receiver for mobile environment
3	Prof. M.R.K. Murthy	K.Ramakrishna	GPS-Radar CNS data fusion for optimal AIR space management
4	Prof.Kaleem Fathima	Mrs. Salma fouzia	QoS based Directional Routing in free space optical MANETs
5	Prof.B.Rajendra Naik	Mrs. ShobhanMud e	Novel method for performance improvement in polar codes for communication system
6	Prof.P.Chandrasekhar	Mrs. N.K.Murthy	Hybrid EM computational technique for Antenna analysis.
7	Prof.B.Rajendra Naik	Mrs. A.Nageshwar Rao	Novel approach to maximize the Network lifetime of WSN through metaheuristic algorithm

Biomedical Engineering Department

1	Prof. M. Malini	Mrs. O.M. Sumathi	Design and Development of an Intelligent Wireless Vital Sign Monitoring System
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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.Ramachandram	Mr.K.Srinivasa Reddy	Secure Schemes For Executing 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”

S.No.	Supervisor Name	Student Name	Title of Thesis
10	Dr.V.B.Narasimha	Mr.Satyanarayana Nimmala	“Design and Development of Machine Learning Computational Models to Predict High Blood Pressure”

List of UCE Faculty received Ph.D degree in the year 2023-2024

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	Dr.M.Venkat Dass	Trust Based Secure Routing and Quality of Services in Mobile Ad Hoc Networks (MANETS)	2022
Mechanical Engineering Department				
1	Prof. P.Laxminarayana	Mr.Ashok Kumar	Experimental Investigation of Micro Hole Machining Using Die Sinker EDM with Taguchi Approach	2022
2	Ph. D. in Metallurgy and Materials Engineering from IIT Madras.	TSRV Padmalatha	Workability and Hot Deformation Behaviour of Metastable Beta Titanium Alloys Ti 5553 and Ti 5373	2020
Electrical Engineerig Department				
1	Prof. G.Yesuratnam	P.Lokender Reddy	Application of Hybrid Evolutionary Algorithms to Optimal Reactive Power Dispatch	2023
2	Prof.E.Vidyasagar	E.Sreeshobha	Unified Power Flow Controller to	2024

S. No.	Supervisor Name	Faculty Name	Title of Thesis	Year
			Enhance the performance of Composite Power System	
3	Prof.M.Manjula	S.Vijender Reddy	Performance Evaluation of Radial Distribution Network with Distributed Generation using Optimization Algorithms	2024
4	Prof. G. Mallesham	CH.Sivakumar	Optimal Design and Control of UPQC to Improve the Power Quality of Hybrid Renewable Systems	2023
5	Prof. G. Mallesham	M.V.Ramana Rao	Design and Analysis of Brushless DC Motor by an Expert system	2022
Electronics & Communications Engineering Department				
1.	Prof. KakarlaSubba Rao (Retd.)	Mr.M.Shyamsunder	Classification and Estimation of Modulation parameters of LPI Radar signals.	2020

Patents details of faculty and students

S.No	Department Name	Applied/ Published	Granted	Grand Total
1	Electrical Engineering	17	10	19
2	Computer Science Engineering	17	--	17
3	Electronics and Communication Engg.	10	--	10
4	Mechanical Engineering	8	1	9
5	Bio-medical Engineering	6	2	8
6	Research And Training Unit For Navigational Electronics (NERTU)	2	--	2
7	Civil Engineering	1		1
8	Dept. of Maths		1	1
9	other	1		1
	Grand Total	62	13	68

Patents details of faculty and students

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
1	K.E.CH. Vidyasagar (BME) & Dr. Sudesh Sivarasu	Mobile Controlled Drug Delivery System Patent No.: 3150/CHE/2010, Granted
2	K.E.CH. Vidyasagar (BME) & Dr. Sudesh Sivarasu	Mobile Controlled Multidrug Infusion System Patent No.: 3996/CHE/2010, Granted
3	Prof. P. Satish Kumar (EE)	Smart Self Disinfecting Face Shield Patent No.: 330167-001, Granted
4	Prof. P. Satish Kumar (EE)	Machine Learning Based Fish Monitoring Machine and Method Thereof Patent No.: 2020102433, Granted
5	Sr.Prof. P. Usha Sri (Mech) P. Yagnasri, N. Seetharamaiah	Design of Nano-Magnetorheological Fluid Damper and Synthesis of the Nano-Magnetorheological fluid Patent No.: 2021103737, Granted
6	Mr. B. Ashok (Maths) Varada Rajulu, Yorseng, Seingchin	Nanocomposite egg shell powder with in situ generated silver nanoparticles for its use as antibacterial housewares cleaning powder Patent No.: 17909, Granted
7	M.Venkateswara Rao (BME) Mr. Arvind, Ms. Soundarya	“Syncope Detection Emergency Messaging” Patent No.: 1639/CHE/2009, Applied
8	Dr. P. Premchand (CSE) V A Narayana, Dr. A. Govardhan	A Novel Method And System For Detecting Near Duplicators For Both Web Documents And Normal Documents Patent No.: 627/CHE/2014 Applied
9	M.Venkateswara Rao (BME) Sai Lalitha B	Cryo probe used in Cardiac surgery Patent No.:6317/CHE/2014 Applied
10	M.Venkateswara Rao (BME)	Portable Non-invasive multi-wavelength photo plethysmographic measuring technique for Hemoglobin Patent No.:201641039799 Applied
11	M.Venkateswara Rao (BME) Sai Lalitha B	A portable device for Automated Cradle Movement Patent No.:201741007378 Applied
12	Dr. P. Satishkumar (EEE) CH.Lokeshwar Reddy	Implementation of SVPWM Techniques to a Multilevel Inverter Patent No.:201741042315 Applied
13	M.Venkateswara Rao (BME) R. Narayan M. Venkateswarlu M. Jagadish	Intelligent System for Monitoring and Balancing of Battery Voltage Patent No.:201741047449 Applied

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
14	Dr. P. Satishkumar (EEE) Gaddam Sridhar	Asymmetrical Cascaded H-Bridge Multilevel Inverter with Reduced Power Switches Patent No.:201741033742 Applied
15	M.Venkateswara Rao (BME) Ayepalayam Ramaswamy Poongothai , Vegulada Durga Rao	Non Invasive Point of Care Diagnostics for Sickle Cell Disease Patent No.:201841005300 Applied
16	Dr.B.Sujatha (CSE) M.Varaprasad Rao + 5 More	Federated Learning Based Intrusion Detection System Patent No.:201941032612 Applied
17	Dr. V. B. Narasimha (CSE) Dr. S. Nagaprasad	Blockchain Method of IOT Based Solutions for Finances Transaction Management of Crypto Currency Patent No.:201941052741 Applied
18	Dr. V. B. Narasimha (CSE) Naganaboina Krishna Veni Dr. S. Nagaprasad	Machine Learning Based Guiding System for Visual Impaired Person Patent No.:201941051792 Applied
19	Prof. P. V. N. Prasad (EEE) K. Mahammad Rafi, J. V. R. Vithal	Method for Detecting Optimal Location and Coordinated Control of Dstatcom in a Radial Distribution Network Patent No.:201941054824 Applied
20	Mr. Ravi kumar banoth Dr Bhanu Prakash Battula, Kusumanchi Avinash Kumar Siva Rama Krishna Tummalapalli Dr. Dhiraj manohar dhane Dr. Jami venkata suman	I-City: Intelligent City Patent No.:202041002527 Applied
21	Dr. G. Sucharitha (CSE) and six more	Real-Time Monitoring System for Compressed Gas Artificial Lift & Method Thereof Patent No.:202041005255 Applied
22	Rajendra Naik Bhukya (ECE) Shoban Mude, G Sneha	Non-Invasive Portable Device for Measuring Hemoglobin and Blood Pressure using Artificial Intelligence Patent No.:201941041551 Applied
23	Mrs. Gira Aparna(ECE) Research Scholar, 6 other	A Novel Method for Emotion Detection of Child Autism Spectrum Disorder(ASM) using Machine Learning Patent No.:202041029727 Applied
24	Prof. P. Satish Kumar (EE) Mr. Surya Prakash Thota, Research Scholar	Novel Interline Unified Power Quality Conditioner (IUPQC) for Multi-Feeder Systems With Four Converters Patent No.:IN201941045730 Applied
25	Dr.B.Sujatha (CSE) 8 others	A Proficient Method for Categorical Data Clustering

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
		Patent No.:202041035585 Applied
26	Mr. Srinivas Kalime, (CSE) Research Scholar and 7 others	Data Acquisition, Monitoring And Controlling System in Industries using Internet of Things Controlled Robot Patent No.:202041036038 Applied
27	Dr. A. Krishnaiah (MED) and 7 others	An Experimental Study to Determine the Cop of the Domestic Refrigerator When the Propanebutane Combination Added to LPG Patent No.:202041038048 Applied
28	Bittu Kumar (NERTU) other 4 members	Deep Learning Based Energy Efficient Smart Ecosystem For Smart Cities Merged With IOT Patent No.:IN202011036436 Applied
29	Mr Misbahuddin Mahammad (EC) and 7 others	Blockchain for 5g-enabled iot for industrial automation. Patent No.:202041041702 Applied
30	Mr. K. Victor Sam Moses Babu (EE)(Senior Research Fellow) Mr. Surya Prakash Thota Research Scholar (EEE)	SPGE-Vehicle: Self Power Generating Intelligent Electric Vehicle Patent No.:202041053099 Applied
31	Mr. K. Victor Sam Moses Babu (EEE) (Senior Research Fellow) Mr. Surya Prakash Thota Research Scholar (EEE)	SAC- Smart Grid: Renewable Energy Sources Automatic Connected To Smart Grid. Patent No.:202041052410 Applied
32	Sr.Prof. A. Krishnaiah(MED) T.Paramesh, T. Vijay Kumar Abdul Khadeer SK Raveen Kumar Thanikonda Ch. Mohana Rao Research Scholars (MED)	Friction Stir Spot Weldments using Different Tools Materials By Taper Thread Profile En 31 and En 19 on Dissimilar Metals Patent No.:IN202141002714 Applied
33	Prof. P. Srinivas (EED), G. Jhansi Rani Research Scholar (EEE)	Design And Assessment Of Interface Circuit Focused on Bidirectional DC to DC Converter Patent No.:IN202141004300 Applied
34	Prof. S Ramachandram (CSE) (Former Vice-Chancellor)	AWS-Cloud Data Performance Increased using Machine Programming. Patent No.:202141006923 Applied
35	T.Paramesh(MED), Research Scholar and other 6 members	Design And Modelling Of Diesel Particulate Filter to Reduce The Emissions From CI Engine Patent No.:IN202141006707 Applied
36	Prof. B. Rajendra Naik (ECE), Prof. L. Nirmala Devi (ECE) other 2 members	3D Protective Mask Based Water Quality Monitoring System Powered By Solar With Good Detection

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
		Patent No.:IN202141006261 Applied
37	Dr. B. Rajendra Naik (ECE) Dr. L. Nirmala Devi (ECE) Mr. A. Nageswar Rao Mr. G. Karthik Reddy Research Scholars	3D Protective Mask Based Water Quality Monitoring System Powered By Solar With Good Detection Patent No.:202141006261 Applied
38	Dr. P. Premchand (CSE) Dr. K. Shyamala VJ.Pawar-Research Scholar	Lung Cancer Prediction and Detection Using Deep Learning Patent No.:202121009683 Applied
39	Srinivas Cheera (EEE) Research Scholar and other 6 members	Investigation on PV Fed Hybrid Electric Vehicles with Various Power Electronic Circuits Patent No.:IN202141023154 Applied
40	G. Jhansi Ran(EEE) and other 5 members	DG Placement for Maximum Loss Reduction In Radial Distribution System Using Abc Algorithm Patent No.:IN202141022450 Applied
41	Sr.Prof. A. Krishnaiah(MED) T.Paramesh, Research Scholarother 4 members	Influence of Welding Speed on Tensile Strength of Welded Joint in Tig Welding Process Patent No.:IN202141027791 Applied
42	Thatikonda Somasheker (CSE) Research Scholar and 4 other	An Architecture for Approximate Computing for Big Data Analytics in Cloud Computing Infrastructure Patent No.:202141029422 Applied
43	T.Paramesh (MED), Research Scholarand other 7 members	Process of Plastic Waste for Products of Building Materials With Plastic Extrusion Method Patent No.:IN202141030245 Applied
44	V.Spandana(ECE) Sandhya Bolla, Research Scholar And other 6 members	Advanced Microcontroller Bus Architecture (Amba)'S VLSI Design for the Ahb2apb Bridge Patent No.:IN202141033469 Applied
45	Prof. Mangu Bukya (EEE) and 11 others	Vidyuta DvicaakraVahana – An Electric Bicycle Patent No.:202141035210 Applied
46	Prof. Mangu Bukya (EEE) and 8 other	Vidyutha Traya Chakra Vahana – A Hybrid Electrical Tricycle Patent No.:202121034017 Applied
47	Prof. P. Chandra Sekhar (ECE) Mr.Boya Pradeep Kumar Research Scholar and one more	Efficient Data Controlling Queue Thread Method for Real-Time GNSS RF Data Capturing Patent No.:202141036914 Applied
48	Namrath Nandipati (CED) Dr. Syed Anisuddin, Suebha	Building Information Model (BLM) Combining with Multi Criteria Decision

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
	Khatoon, Research Scholar	Making (MCDM) Methods Patent No.:202141042922 Applied
49	Mr.Kiran Kumar Algot (MED) Research Scholar Dr.Shravan kumar and 5 other	A Robotic Surgery Assisting Simulation System and Method Thereof Patent No.:202241000070 Applied
50	Dr. Bittu Kumar (NERTU) Research Associate	A Machine Learning Based Approach to Study the Nutrient Requirement of Underground Stems Along with its Yield Patent No.:202141061746 Applied
51	Mrs. L. Prathibha (ECE) Dr. B V Bhaskara Rao and 10 others	Multiple Sensor Data Fusion Enable IOT Based Robotics Vehicle for Soil Condition Monitoring Patent No.:202241001732 Applied
52	Dr.M V Ramana Rao(EEE) Dr Aravindan Palaniappan and 4 other	AI and IOT based future PV asset operation with simple INTE Patent No.:202241004467 Applied
53	Dr.Mohd Abdul Hameed, (CSE) Dr. Amol Dhakne and 10 others	An Iot Integrated Blockchain Technique to Handle Security Information Over Cloud Patent No.:202241005364 Applied
54	Dr.Mohd Abdul Hameed, (CSE) G Venkata Subbaiah and 10 other	An Artificial Intelligence Based Approach to Analyze the Multi-Channel Queries of E-Commerce Sites Patent No.:202241005805 Applied
55	Dr.Mohd Abdul Hameed, (CSE) Dr.M.Sheeba	Artificial Intelligence Technique to Study the Feedback of the Customers: An Analytics Patent No.:202241005976 Applied
56	Thatikonda Somashekar, (CSE) Research Scholar Dr. R .D. Padmavathy and 12 others	Method For Assessing Value of a Post in a Social Media Gamification Platform Patent No.:202231006716 Applied
57	M V Ramana Rao (EEE) Dr. Pritam Bhowmik and 4 others	Supply-Demand Management for Future Electric Vehicle System Method Thereof Patent No.:202231005727 Applied
58	Dr.Mohd Abdul Hameed, (CSE) Dr. Deepak Annasaheb Vidhate (CSE) and 10 others	Advanced Web Browsing Analytics Through Natural Language Processing Patent No.:202221005812 Applied
59	Dr.Pappula Laxminarayana(MED) Dr.M V Ramana Murty and 7 others	Designing Smarter H Frames to Facilitate Work at Higher Altitudes Patent No.:202241026074 Applied
60	Ravi Kumar Banoth, (CSE) Research Scholar Dr. Mohd. Shaikhul Ashraf and 10 others	Artificial Intelligence Based Approach to Predict the Regeneration of Genetically Modified Plants and Detect their Crop Yield Quality

S.No	Name of Faculty	Patent Details & Status of Applied /Granted
		Patent No.:202241032073 Applied
61	Mrs. Shiramshetty Gouthami (CSE) Research Scholar Dr. Nagaratna P Hegde	An Efficient Approach For Sentiment Analysis Using Fuzzy Logic Patent No.:202241033071 Applied
62	K. Venkata Subbareddy(ECE) Research Student Dr. B. Vishnu Vardhan and 3 other	Integrated Machine Vision System For Human Micro-Expression Spotting by AI Image Processing Patent No.:202241035192 Applied
63	K. Venkata Subbareddy (ECE) Research Student Dr. B. Vishnu Vardhan and 3 other	Integrated Machine Vision System For Human Micro-Expression Classification By Ai Image Processing Patent No.:202241035200 Applied
64	Nenavath Chander (EEE) Research Scholar L L S Maneesha and 10 other	The Brushless Direct Current (BLDC) Motor-Fed ZETA Converter uses an Internet of Things (IoT)-based BAT Algorithm and PIC Controller Optimization Patent No.:202241038211 Applied
65	Srividya V. Dakuri, (MED) Research Scholar Abin Rasheed and 5 other	Handicapped Solar Car Wash Unit (HSCWU) Patent No.:202241037428 Applied
66	M V Ramana Rao (EEE) Dr. Abhishek Verma and 3 other	Intelligent Micro Grid Design For Rural Agriculture Irrigation Patent No.:202241034180 Applied
67	M V Ramana Rao(MED) Dr. C.R. Rajesh and 4 others	Multiport Unmanned Autonomous Electric Vehicle Fast Charging Station using IOT Patent No.:202241035916 Applied
68	M V Ramana Rao (EEE), Mr. Nagulapati Kiran and Dr. Keerti Rai	Permanent-Magnet Synchronous Motor Drive System using Backstepping Control Method Thereof Patent No.:202241047497 Applied

DEPARTMENT OF CIVIL ENGINEERING



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, Geo-textiles, Seismic resistant structures, Bridges and Computer applications.



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

2. Faculty Details

Faculty member		Areas of Teaching and Research
PROFESSOR AND HEAD		
	Dr. K. L. Radhika B. Tech (JNTU), M. E. (OU), Ph.D (NITW)	Structural analysis and design, and Concrete Technology
PROFESSORS		
	Dr. Kumar Molugaram, B. E. (OU), M. Tech(JNTU), Ph. D(IITB), FIE, MISTE, MIRC, MIIBE, MIUT, MISR, MWCTR, MASCE, MTRB,	Land-use transportation integration, Urban transportation planning, Behavioral modeling. Micro- simulation, Optimization techniques, Traffic Engineering, Rural roads planning and development, Highway material testing, Pavement systems design and Evaluation
	Dr. N. Suresh Kumar B. Tech. (KU) M.E. (Anna 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. GopalNaik, 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. 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>
	<p>Dr. D. Rupesh Kumar B. Tech (NU), M.Tech (JNTU), Ph.D (JNTU).</p> <p>Design of RCC & steel structures, Finite Element Analysis, Earthquake resistant design of structures, Design of bridges, Structural shape optimization</p>

	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)	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

Please provide following information from July 2021 to Till date

1. Faculty achievements: R&D projects till date

2023-2024				
Name of the Faculty	Title of The Sponsored Research	Funding Agency	Amount	Duration
Prof. M. Gopal Naik & Dr. Harish Gupta	Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad (April 2019)	SPARC-MHRD	74.38 lakhs	2+2 Years
Prof Shashikanth .K & Dr. Harish Gupta	Assessment of climate change Impact on Indian Monsoon Precipitation using new age CMIP6 Dataset: Implication to water security in the Godavari and Narmada Basin	SERB		3 YEARS
Dr. Harish Gupta	“Source to sink Transport and Transformations of Carbon and Nutrients: Biogeochemical Modelling for the Tropical Narmada River”	SERB	37.93	3 Years

2022-2023							
Name of the Scheme/ Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department	Year of Award	Funds provided (INR in lakhs)	Duration of the project
UGC-MOOCs	D. Harish Gupta	UGC-MOOCs	Govt	---	2020 - 2022	13.5	2 years
DST-SERB	Prof. M. Gopal Naik	DST-SERB	Govt	----	2019 - 2022	40.135	3 Years
UGC, Govt of India	Prof. M. Kumar	UGC, Govt of India	Govt	---		4.00	2 years
SERB, DST, GOI	Prof. M. Kumar	SERB, DST, GOI	Govt	---	2019 - 2023	38.23	3 Years

2021-2022			
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	2.35 Lakhs, Two years	UGC Minor Research Project (Work is in progress)

	strength pond ash concrete		
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

2. Faculty Contributions: Awards

2023-2024				
Award Name	Awarded by	Awardee	Dept.	Year
Best Engineering Teacher	The Institution of Engineers(India) , Telangana State Centre(ISO 9001 : 2015 Certified) on 5 th September,2023	Dr. R. Srinivasa Kumar	Civil Engineering	2023

2022-2023					
S.No	Award Name	Awarded by	Awardee	Dept.	Year
1	Telangana State Best Teacher	Govt. of Telangana	Prof. P. Raja Sekhar	Civil Engineering	2022
2021-2022					
1	Telangana State Best Teacher	Govt. of Telangana	Prof. M. Gopal Naik	Civil Engineering	2021
2	Engineer of the Year award-	Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana			

Faculty Contributions: positions such as Vice-Chancellor, Registrar, Director etc

S.No.	Name of the Faculty	Position held, Organization	Duration
1			

4. Faculty Contributions: patents

Academic Year	Published	Granted
NIL	NIL	

5. Faculty Contributions: Number of Publications

2023-2024					
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	2023
	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	2023

<u>Faculty Name</u>		<u>Paper Title</u>	<u>Journal Name</u>	<u>ISSN No.</u>	Volume No. & Year
2022-2023					
P.Anil , V.Bhikshma	Experimental Study on Improving the Strength of Concrete by Using Self - Curing Technic with Poly Ethylene Glycol and Super Absorbent Polymer	International Journal of material science and engineering FIC – SISTEEM-publishing limited.		2020,I OP	
Prof. V.Bhikshma K.N.V.Chandrasekhar &K.U.Bhaskara Reddy	Topology Optimization of Laminated Composite Plates and Shells using Optimality Criteria	International Journal of Applied and Computational Mechanics	ISSN:23 83-4536	March 20, 2020	SI-2.3
M. Gopal Naik, Seyed Ali Mousavi Dehmourdi and Ravande Kishore (2021).	"Modelling A Multi-Criteria Decision Support System for Prequalification Assessment of Constructio	<i>Operational Research in Engineering Sciences: Theory and Applications</i>	ISSN: 2620- 1607	Vol. 4 (2), Pp.79- 101	

	n Contractors Using Critic and Edas Models."				
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).	<i>International Journal of Engineering and Advanced Technology (IJEAT)</i>	ISSN: 2249- 8958	Vol. 10 (4), Pp.89- 100	
Ravande Kishore, Seyed Ali Mousavi Dehmourdi, M. Gopal Naik, Malek Hassanpour (2020)	"Designing a framework for subcontract or's selection in construction projects using an MCDM model" <i>Operational Research in Engineering Sciences: Theory and Applications</i>	<i>Operational Research in Engineering Sciences: Theory and Applications</i>	ISSN: 2620- 1607eIS SN: 2620- 1747	Vol. 3, Issue 3, 2020, pp. 48- 64	

Paper Published in Conference

2023-24				
Faculty Name	Title	Publisher Name		
B Divya Jyothi, S V S N D L Prasanna	Assessment of Engineering Characteristics for Black Cotton Soil with Addition of Layered Stone Dust	2 nd International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), Dr. D. Y. Patil Institute of Technology, Pimpri, Pune – 411 018		June 2023
Yashwanth P, S V S N D L Prasanna	ANN-Based Prediction of Compressive Strength in Glass Wool Reinforced Brick			
Prof D.Rajashekar reddy	Study On Pedestrian Road Crossing Behaviour Under Mixed Traffic Condition	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024
	Effect of Aggregate Gradation and Binder Parameters on Rutting of Bituminous Pavements	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024

	Techno-Economical Design of Flexible Pavement based on the Stabilization of Soil using stone dust as an additive	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024
Sr. Prof. M. Gopal Naik	Investigation on Built-up, Population and Road Network Density Dynamics using GIS, Regression and Causation Analysis– A Case Study of Hyderabad City, India	ASCE-Journal of Urban Planning and Development		Volume 149, Issue 3
	Urban Rainfall-Runoff Modeling Using HEC-HMS and Artificial Neural Networks: A Case Study	International Journal of Mathematical, Engineering and Management Sciences		Vol 8 (3), pp 403-423
	Flood Inundation Mapping for a Kukatpally Gauged Basin Using HEC-RAS: A Case Study of Hyderabad Metropolitan Area, Telangana	Advances in Engineering Research, Atlantis Press, Springer		pp: 320-333

	State, India			
	Construction Delay Assessment using Compound Index and Fuzzy Optimization Technique: A Case Study of Hyderabad Construction Industry	Journal of Advanced Research in Applied Sciences and Engineering Technology		1. Vol 34(2), pp 30-49.

2021-2022					
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 Critical Path Method Models.	Operational Research in Engineering Sciences: Theory and Applications	ISSN: 2620-1607	Vol. 4 (2), Pp.79-101	
Seyed Ali Mousavi	"An Investigation	International Journal of	ISSN: 2249-	Vol. 10 (4),	

Dehmour i, M. Gopal Naik and Ravande Kishore (2021)	on Construction Crisis Framework Based on the CRITIC and WASPAS Methods, a Case Study; Khuzestan province (Iran).	Engineering and Advanced Technology (IJEAT)	8958	Pp.89-100	
Hiteshri Shastri, Kaustubh Salvi, Shashikant h. K , S Misra (Book Chapter)	A Review of Multicriteia decision making with reference to Water Resources and Climate Science Applications.	Springer Nature Publications	978-3- 030- 66682- 8 ISBN 978-3- 030- 66683- 5 (eBook)		Hites hri Shast ri, Kaus tubh Salvi, Shas hikan th. K , S Misr a (Book Chap ter)
Prof.K.Sh ashikanth	Intricate Flood Flow Advancement Modelling In The Krishna River Sub Basin, India	ISH Journal of Hydraulic Engineering: Taylor & Francis (Impact factor: 2.00) DOI: 10.1080/0971 5010.2021.20 19134. ISSN: 09715010, 21643040		<a href="https://www.resurc
hify.com/i
mpact/det
ails/21100
274232">https://w ww.resurc hify.com/i mpact/det ails/21100 274232	h- Index 19

		(UK)			
	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,			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	15430 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: Validation for Phosphorous and Nitrite Detection	Sensors and Actuators A: Physical (Elsevier) (Impact factor: 3.407)		V. 330 (2021)	
	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	Science of The Total Environment (Elsevier) (Impact		V. 751 (2021)	

	tropical rivers of Western Ghats, India: Variations and controls	factor: 7.963)			
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List of Publications in National Conferences by Faculty

Faculty Name	Paper Title	Conference Name	ISBN No	Volume No & Year
Sr. Prof. M. Gopal Naik	Statistical Downscaling of CMIP6 Projections for a Hyderabad City	HYDRO-2023 International Conference, NIT Warangal (Accepted)		2023
	Urban Flood Modelling and Analysis of Recent Floods of Hyderabad 2020 Using PCSWMM: A Case Study	Proceedings of the 23rd IAHR-APD Congress 2022, IIT Madras, India		2022
	Urban Flood Modelling using PCSWMM and Geo-Spatial Techniques: A case study of Hyderabad Metropolitan City	National Symposium on <i>Geospatial Technology: Journey from Data to Intelligence</i> , held by Indian Society of Remote Sensing, and Indian Society of Geomatics		15-17 Novemebr 2022

2023-24		2022-23		2021-22	
Journal	Conference	Journal	Conference	Journal	Conference

* Please provide list of publications

6. Faculty Contributions: Books published

S. No	Faculty Name	Book 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 it's Modeling Techniques”, Recent Advances in Time Series Forecasting, Vol. 1, September 2020.	Routledge, Taylor and Francis Group, CRC Press.	151-180,	2021
2	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
3	Dr. Harish Gupta	A Comprehensive Review on Urban Floods and its Modeling Techniques in Time Series Forecasting, (Chapter 10) Edited By	CRC Press (Taylor & Francis Group)	29	2021

		Dinesh C. S. Bisht, Mangey Ram			
		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

7. Faculty Contributions: Consultancy

Statement of Consultancy amount generated in the Department of Civil Engineering, University College of Engineering, Osmania University, Hyderabad.

2023-24			
Structural Engineering (SE)	Proof Checking and Third party Quality Check	Government & Private Organisation	2,49,82,688.00
Water Resources Engineering (WRE)	Vetting of Sewage Treatment plants (STPs) under GHMC region	Different Agencies	1,08,000.00
Geotechnical Engineering (GTE)	Geotechnical testing & Recommendations	Government & Private Organisation	2,61,892.00
Transportation Engineering (TE)	Third party QA/QC works of HMRL & Routine Lab testing works	Government & Private Organisation	2,36,506.00
		Total	2,55,89,086.00

2022-23			
Structural Engineering (SE)	Proof Checking and Third Party Quality Check	Government & Private Organisations	1,50,86,757.00
Water Resources Engineering (WRE)	Vetting of Sewage Treatment plants (STPs).	Government & Private Organisations	3,63,500.00

Geotechnical Engineering (GTE)	Geotechnical Testing & Recommendations	Government & Private Organisations	1,37,470.00
Transportation Engineering (TE)	Third Party QA/QC Works of HMRL & Routine Lab Testing Works	Government & Private Organisations	8,49,856.00
TOTAL			1,64,37,583.00

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

8. Faculty Contributions: Training Programs conducted (GIAN, ATAL, any other.)

Sl. No.	Faculty Coordinators	Name of the program	Amount (Rs. In Lakhs)

9. Faculty Contributions: Workshops/FDPs/STTPs attended

2023-2024				
S.no	Name of the Faculty	Name of the program		Duration
1	Mr	Two-day workshop on Draft Development and Building Regulations, 2022 for the State of	Cyan Conference Hall, Marigold Hotel, Begumpet, Hyderabad	17-18 August, 2023

	R.Rajender	Telangana, organized by the Bureau of Indian Standards (BIS), Hyderabad Cyan Conference Hall, Marigold Hotel, Begumpet, Hyderabad		
2		one-day expo on inspection and imaging solutions of Concrete NDT	The Katriya Hotel, Hyderabad	6 th December, 2023
3		2 nd international symposium on recent challenges in engineering (ISRCE 2023)	UCE (A), OU	30-31 December, 2023

2022-2023				
Name of the Faculty	Name of The Programme	Type of Programme	Venue of The Programme	Duration
Dr. (Ms.) S V S N D L Prasanna	Advances in Water Resources Engineering and Irrigation Management	Five Days Online Faculty Development Programme	Department of Civil, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam-603110	3 - 7 January, 2022
Ms. P Anuradha	Fire Resistant Design of Structures	Short Term Course	CCE, IIT Madras, AICTE Programme	25 – 30 April, 2022
	Fatigue and Fracture Behaviour of Steel and	Online Advance Course	CSIR-SERC, Chennai	19 – 20 May, 2022

	Concrete Structures and Components			
	Advancements in Structural Health Assessment (ASHA – 2022)	Short Term Course	Centre for Sustainable Infrastructure and Systems, Mahindra University	30 May – 3 Jun, 2022
	Applications of Multiscale Modelling in Structural Engineering	Online Advance Course	CSIR-SERC, Chennai	19 – 11 Feb, 2022
2021-2022				
Faculty Name	Title	Venue	Dates	Sponsored by
Prof. K. Shashikanth	Python Programming	FDP	26 Jul – 6 August, 2021	Electronic & ICT Academics
Prof. D. Rajsekhar Reddy	Professional Development Training (PDT)	PDT Training IIM Kozhikode	15 – 20 Feb, 2021	
	Training Programme under PMGSY	Training Program NRIDA, Indian Academy of Highway Engineers, Noida	22 – 24 Feb, 2021	NRIDA
Prof. D Annapurna	Professional Development Training (PDT)	PDT Training IIM, Tiruchirappalli	8 – 10 Feb, 2021	8 – 10 Feb, 2021
Dr. (Ms.) S V S N D L Prasanna	One Week FDP	NPTEL-AICTE NPTEL21CE50S13582 373	Jul – Sept 2021	Project Planning & Control
	Online Elementary FDP	University College of Engineering, Osmania University	8– 12 November, 2021	Emotional Intelligence

	One Week Short Term Course	Department of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru in association with IETE	30Nov- 4 Dec, 2021	Competence to Explore Artificial Intelligence World
	6-Day AICTE-ISTE Sponsored Refresher Program	Department of Civil Engineering, CVR College of Engineering, Hyderabad	10 - 16 December 2021	Urban Flood Modelling Techniques (Online Mode)
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)



8. Research Projects

2022-2023

Name of the Scheme/Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/ Non-Government)	Department	Year of Award	Funds provided (INR in lakhs)	Duration of the project
UGC-MOOCs	D. Harish Gupta	UGC-MOOCs	Govt	---	2020 - 2022	13.5	2 years
DST- SERB	Prof. M. Gopal Naik	DST- SERB	Govt	----	2019 - 2022	40.135	3 Years
UGC, Govt of India	Prof. M. Kumar	UGC, Govt of India	Govt	---		4.00	2 years
SERB, DST, GOI	Prof. M. Kumar	SERB, DST, GOI	Govt	---	2019 - 2023	38.23	3 Years





9. Consultancy Projects:

2022-23			
Structural Engineering (SE)	Proof Checking and Third Party Quality Check	Government & Private Organisations	1,50,86,757.00
Water Resources Engineering (WRE)	Vetting of Sewage Treatment plants (STPs).	Government & Private Organisations	3,63,500.00
Geotechnical Engineering (GTE)	Geotechnical Testing & Recommendations	Government & Private Organisations	1,37,470.00
Transportation Engineering (TE)	Third Party QA/QC Works of HMRL & Routine Lab Testing Works	Government & Private Organisations	8,49,856.00
TOTAL			1,64,37,583.00



10. List of Publications in International Journals by Faculty:

2022-2023					
Faculty Name	Paper Title	Journal Name	ISSN No.	Volume No. & Year	IF/H - Index/Scopus Index
B Divya Jyothi, S V S N D L Prasanna	Assessment of Engineering Characteristics for Black Cotton Soil with Addition of Layered Stone Dust	2 nd International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), Dr. D. Y. Patil Institute of Technology, Pimpri, Pune – 411 018		June 2023	
Yashwanth P, S V S N DL Prasanna	ANN-Based Prediction of Compressive Strength in Glass Wool Reinforced Brick				
	Study On Pedestrian Road Crossing Behaviour Under Mixed Traffic Condition	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024	





Prof D.Rajashekar reddy	Effect of Aggregate Gradation and Binder Parameters on Rutting of Bituminous Pavements	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024	
	Techno-Economical Design of Flexible Pavement based on the Stabilization of Soil using stone dust as an additive	International Journal of Innovative Research in Technology (UGC CARE)	2349-6002	Volume 11, Issue 1, June 2024	
	Investigation on Built-up, Population and Road Network Density Dynamics using GIS,Regression and Causation Analysis– A Case Study of Hyderabad City, India	ASCE-Journal of Urban Planning and Development	DOI: 10.1061/JUPDDM/UPEN G-4186	Volume 149, Issue 3	



Sr. Prof. M. Gopal Naik	Urban Rainfall- Runoff Modeling Using HEC-HMS and Artificial Neural Networks: A Case Study	International Journal of Mathematical, Engineering and Management Sciences	https://doi.org/10.33889/IJMEMS.2023.8.3.023 403	Vol 8 (3), pp 403-423	
	Flood Inundation Mapping for a Kukatpally Gauged Basin Using HEC- RAS: A Case Study of Hyderabad Metropolitan Area, Telangana State, India	Advances in Engineering Research, Atlantis Press, Springer	https://doi.org/10.2991/978-94-6463-252-1_36	pp: 320-333	
	Construction Delay Assessment using Compound Index and Fuzzy Optimization Technique: A Case Study of Hyderabad Construction Industry	Journal of Advanced Research in Applied Sciences and Engineering Technology	https://doi.org/10.37934/araset.34.2.3049	2. Vol 34(2), pp 30-49.	





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	2022
	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	2022



12. List of Publications in National Conferences by Faculty

Faculty Name	Paper Title	Conference Name	ISBN No	Volume No & Year
Sr. Prof. M. Gopal Naik	Statistical Downscaling of CMIP6 Projections for a Hyderabad City	HYDRO-2023 International Conference, NIT Warangal (Accepted)		2023
	Urban Flood Modelling and Analysis of Recent Floods of Hyderabad 2020 Using PCSWMM: A Case Study	Proceedings of the 23rd IAHR-APD Congress 2022, IIT Madras, India		2022
	Urban Flood Modelling using PCSWMM and Geo-Spatial Techniques: A case study of Hyderabad Metropolitan City	National Symposium on <i>Geospatial Technology: Journey from Data to Intelligence</i> , held by Indian Society of Remote Sensing, and Indian Society of Geomatics		15-17 Novemembr 2022





13. List of Books / Proceedings Published by Faculty:

Faculty Name	Title	Publisher Name	Pages	Year of Publication
R.Srinivasa Kumar	Text book on Highway Engineering			2023
	Pavement design			
	Transportation Engineering (Railways,Airport,Docks and Harbours)			
	Pavement Evalution and Maintenance Management			
	Introduction to Traffic Engineering			
	Transportation Engineering (as per new AICTE guidelines)			
	Intelligent Transportation Systems			
Sr. Prof. M. Gopal Naik	Rainfall-runoff modeling using SWAT model: A case study of middle Godavari basin, Telangana State, India	<i>Advances in Mathematical and Computational Modelling of Engineering Systems</i> , CRC, Press Taylor & Francis Group	Edition1, 2023, pp. 19	2022
	Trap Efficiency of Reservoirs: Concept	<i>Water, Land and</i>	Chapter	2023



	Review and Application	<i>Forest Susceptibility and Sustainability</i> , Elsevier Publications	2, Volume 1, 2023, pp. 29-60	
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14. Key Note Lectures and Session Chair by Faculty:

Faculty Name	Details of Lecture	Conference Name	Name of the Organization	Dates
Sr. Prof. M. Gopal Naik	Session chair	28 th Inter-national Conference on Hydraulics, Water Resources and River Engineering (Hydro 2023)	Organized by the Department of Civil Engineering, National Institute of Technology, Warangal, India, under the aegis of Indian Society of Hydraulics (ISH) held	21-23, December 2023.

15. Guest Lecturers delivered by Faculty:

Faculty Name	Details of Lecture	Name of Organization	Date
Sr. Prof. M. Gopal Naik	Water Supply Network System	MCR HRD Institute of Telangana	22-24 January, 2024
	Rainwater harvesting and urban watershed modelling	Andhra Pradesh Human Resource Development Institute (APHRDI),	04-01-2024



Mangalagiri, Vijayawada

16. 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
Dr. R. Srinivasa Kumar	Field demonstration of falling weight deflectometer (FWD) and network survey vehicle (NSV)	Transportation Engineering laboratory,Civil Eng Dept,UCE,OU	10 th December,2023	HTL Engineering & Services LLP, L.B.Nagar Hyderabad
Prof D.Annapurna	ATAL Online Faculty Development Programme.	University College Of Engineering,Osmania University, Telangana		All India Council For Technical Education
	Invited talk by our	Conference hall, CED,	15 th September,	



Mr. R. Rajender	Alumni, Dr. P. Sai Suman, Senior Vice-President, CUBETECH Pvt. Ltd. on “Navigating the Path: from Civil Engineering to Entrepreneurship – A journey of Impact” in association with OUCEA.	UCE, OU	2023	
	Manak Mahotsav (World Standards Day) in collaboration with Bureau of Indian Standards (BIS), Hyderabad and OUCEA.	Conference hall, CED, UCE, OU	7 th October, 2023	BIS, Hyderabad





17. 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
Mr R.Rajender	Two-day workshop on Draft Development and Bui Cyan Conference Hall, Marigold Hotel, Begumpet, Hyderabad lding Regulations, 2022 for the State of Telangana, organized by the Bureau eof Indian Standards (BIS), Hyderabad	Cyan Conference Hall, Marigold Hotel, Begumpet, Hyderabad	17-18 August, 2023	
	one-day expo on inspection and imaging solutions of Concrete NDT	The Katriya Hotel, Hyderabad	6 th December, 2023	
	2 nd international symposium on recent challenges in engineering (ISRCE 2023)	UCE (A), OU	30-31 December, 2023	



Mr R.Rajender	Industrial visit along with ME (Civil-SE) students to construction site of 4-lane flyover at Amberpet X road on NH 202 (New NH-163)	Amberpet, Hyderabad	15 th March, 2024	
	Industrial visit along with ME (Civil-SE) students to precast site of Preca Solution India Private Limited, Shankerpally, Hyderabad	Shankerpally, Hyderabad	22 nd June, 2024	
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





18. State and National Level Recognitions 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,

**19. Achievements /Awards of Faculty**

Faculty Name	Achievements / Awards
Prof. M. Gopal Naik	Received Telangana State Best Teacher by Govt. of Telangana in the year 2021
	Received Engineer of the Year award- Institute of Engineers (IEI) Hyderabad and the Govt. of Telangana
Prof. P. Raja Sekhar	Received Telangana State Best Teacher by Govt. of Telangana in the year 2022
Dr. R. Srinivasa Kumar	Received Best Engineering Teacher award 2023 by The Institution of Engineers(India) , Telangana State Centre(ISO 9001 : 2015 Certified) on 5 th September,2023



20. Industry and Institute Interaction

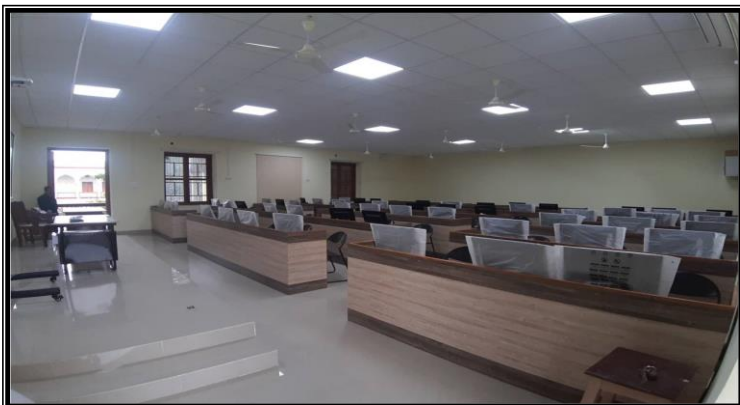
Our students of B.E 3/4 undertake Summer Internship of 6 weeks duration at different companies of Civil Engineering. In this connection the various companies offered Internship to our students during the recently concluded summer include the following

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

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

21. NIRMAN 2022

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. D. Rupesh Kumar** (Faculty Member of the Department).

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



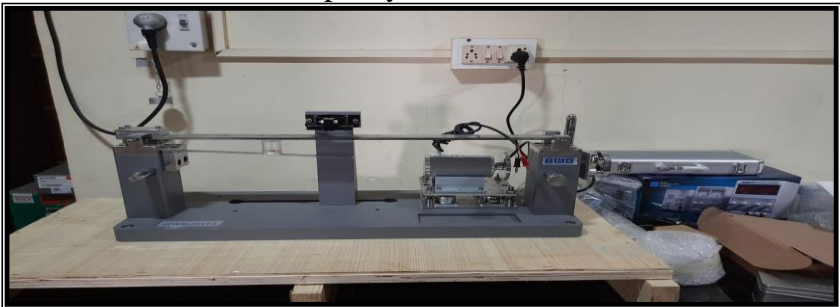
GROUND WATER MODEL



BASIC HYDROLOGY SYSTEM



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 MECHANICAL ENGINEERING

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



DEPARTMENT OF MECHANICAL ENGINEERING

Ph.No: 8331040964, Email: med.ouce@gmail.com

Profile:

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

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

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








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

- 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 Areas/ Specializations
	Prof. M. Chandra Sekhar Reddy Ph.D. (IITM) HEAD	Machine Design, Vibrations, Finite Element analysis
Senior Professors		
	Sr. Prof. P Laxminarayana Ph.D. (Registrar, OU)	Production Engineering, Industrial Engineering, Engineering Research Methodology
	Sr. Prof. Sriram Venkatesh Ph.D	Material Handling, CAD/CAM, Advanced Kinematics, Additive Manufacturing Technologies and Applications,
	Sr. Prof. A. Krishnaiah, Ph.D (IIT Madras), Post Doc (South Korea)	Advanced Manufacturing
	Sr. Prof. P. Usha Sri, Ph.D. (IIT-Madras)	Thermal Engineering, Turbo machinery, Computational Fluid Dynamics
Professor		
	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

Name of the Faculty		Research Areas/ Specializations
	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, Ph.D	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
	Dr. E. Madhusudan Raju, M.E, Ph.D	Automation & Robotics, Control systems

Name of the Faculty		Research Areas/ Specializations
	Dr.TSRVPadmalaitha, PhD	Production Engineering, Manufacturing Systems.
Assistant Professors(Contract)		
	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.	Sr. Prof. Sriram Venkatesh	Former 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.	Dr E Madhusudan Raju	Warden , Kinnara Hostel, 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 T has 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

Please provide following information from July 2021 to Till date

1. Faculty achievements: R&D projects till date

Name of the Faculty	Title of The Sponsored Research	Funding Agency	Amount	Duration
Investigator: Dr G S Reddy Co-Investigator Prof SriramVenkatesh	Advanced high temperature oxidation resistant Titanium aluminideintermetallic with rare earth additions	DRDO	Rs 47.13 Lakhs	03 years
Dr. K Saraswathamma Dr. TSRV Padmalatha	Simulated & Experimental investigation of stretch forming of AA2014 alloy	CARS	Rs 9.98 Lakhs	02 years
Prof. Sriram Venkatesh	Development of Components for Servo System Through 3D Printing Machines Under the scheme Contract for Acquisition of Research Services (CARS) Research Service Provider (RSP)	CARS	Rs 20.0 Lakhs	03 Years
Dr. K Saraswathamma Dr. T Nagaveni	Optimisation of machining parameters for 3-D and 4- D carbon carbon composites	CARS	Rs 10.0 Lakhs	02 years
Dr L Siva Rama Krishna		DMRL	Rs 14 Lakhs	01 year

2. Faculty Contributions: Awards

S.No	Award Name	Awarded by	Awardee	Dept.	Year
1	Best Engineering Teacher'	Institution of Engineers	Prof. M. Chandra Sekhar Reddy	Mechanical Engineering	2022

		India			
2	LEADERSHIP AWARD	SAE INDIA Southern Section	Prof. Uma Maheshwar Vanamala	Mechanical Engineering	2022
3	Vice Chancellor's award	Osmania University	Dr U Ashok kumar	Mechanical Engineering	2023
4	Best Engineering Teacher'	Institution of Engineers India	Prof. K Sarasathamma	Mechanical Engineering	2023
5	Vice Chancellor's Award	Osmania University	Prof P Ushasri	Mechanical Engg	2022
6	Vice Chancellor's Award	Osmania University	Prof L Siva Rama Krishna	Mechanical Engg	2022

3. Faculty Contributions: positions such as Vice-Chancellor, Registrar, Director etc

S.No.	Name of the Faculty	Position held, Organization	Duration
1	Prof P Laxminarayana	Registrar, Osmania University, Hyderabad Telengana	2021-24
2	Prof.Sriram Venkatesh	Secretary, TSCHE (Telangana Council of Higher Education)	2024-
3	Prof. A Krishnaiah	President of India Nominee for Pondicherry University, appointed by Ministry of HRD, Govt. of India.	2021
4	Prof. P Ramesh	Member of Research	2022

	Babu	Council, DRDL, Hyderabad Convenor, Admissions All cets in telengana state	
5	Prof M Chandra Sekhar Reddy	Head, MED , UCE OU	2022
6	Prof K Saraswathamma	Special Officer, Telengana Mahila Viswavidhyalayam, Telngana	2023
7	Prof L Siva Rama Krishna	Director, Office of the International Affairs, Osmania University	2023
8	Prof R Rajendra	Dean, College Development Council	2024
9	Dr E Madhusudan Raju	Additional Controller, Exambranch, Osmania University	2023
10	Dr T Nagaveni	Associate Director, UGC-Human Resource Development Centre, Osmania University	2023

4. Faculty Contributions: patents

Academic Year	Published	Granted
2021-22	-	01
2022-23	-	-
2023-24	-	-

5. Faculty Contributions: Number of Publications

2023-24		2022-23		2021-22	
Journal	Conference	Journal	Conference	Journal	Conference
25	15	41	10	28	18

* Please provide list of publications

6. Faculty Contributions: Books published

S. No	Book Title	Author	Dept.	Publisher	Year
1	Modeling and Optimization of Process Parameter for Fatigue Strength Improvement by Selective Laser Melting of AlSi10Mg, Computational Intelligence based Optimization of Manufacturing Process for Sustainable Material,	Mudda Nirish and Dr. R.Rajendra, “	Mechanical Engineering	Taylor & Francis Group	2022
2	Mechanical Engineering (Intermediate vocational course first year)for state Government’s “ state institute of vocational education, Telengana state board of	Dr E Madhusudan Raju	Mechanical Engineering	Telugu academy Hyderabad	2022

	intermediate education				
3		Prof G Narender	Mechanical Engg		2022

7. Faculty Contributions: Consultancy

SI. No.	Name of the Project	Department	Amount (Rs. In Lakhs)
1	2 week workshop on Industrial robotics	Board of Intermediate Education for Vocational courses	05 Lakhs
2	CPDDAM Lab	DMRL, DRDO	1.43 Lakhs

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	Sr.Prof Sriram Venkatesh 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 aluminide intermetallics with rare earth additions.	Investigator Dr G S Reddy Co-Investigator Sr.Prof Sriram	DRDO	47.13

	Venkatesh		
	Investigator:		
Modrobs Project in CAD/CAM Lab	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	Sr.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. ViqarMohiuddin. "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, Sriram Venkatesh, "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 Nagaveni Thallapalli, “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:

Nagaveni Thallapalli 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

Nagaveni Thallapalli 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

Nagaveni Thallapalli presented a paper titled “ Design and Analysis of Progressive Tool for a Glass Bracket” 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

Dr. TSRV Padmalatha

Padmalatha T S R V , Nagaveni T , Saraswathamma K, Dinesh Kumar Reddy T, RavaliOe Optimization 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.Uday Kiran, 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-2014 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


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
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 development programme on “Metal Additive Manufacturing and its Applications” held during 15-17 September, 2021	ESCI and CPDDAM, ou	16-09-2021



S.No	Faculty Name	Details of Lecture	Name of Organization	Date
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 Digital Manufacturing held during 12-17 October, 2020	Department Of Mechanical Engineering, MEPCO Schlenk Engineering College, Sivakasi	14-10-2020
	Dr.T.Nagaveni	a Resource Person at the ONLINE 2nd	PROGRAMME organized by UGC-HRDC Osmania	1.12.2021 to 31.12.2021



S.No	Faculty Name	Details of Lecture	Name of Organization	Date
		FACULTY induction	University, Hyderabad	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

Student Name	University Joined
Giridhar Raju	1016
Anwar	1785
Giridhar Raju	168 (Engineering Science)
Anwar	282 (Engineering Science)

FUTURE PLANS

- 7) To establish research center in Composite Materials
- 8) 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



DEPARTMENT OF ELECTRICAL ENGINEERING





DEPARTMENT OF ELECTRICAL ENGINEERING

Phone No.: 8331997305

About the Department

The Department of Electrical Engineering is organizing platinum jubilee celebrations 2023-24. The Department of Electrical Engineering 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. 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 regular faculty and three contract faculty members 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. The department is accredited by NBA for UG and PG Program.

Vision

To strive for excellence in education and research; meet the requirement of industry in the field of electrical engineering to serve the nation.

Mission






- To provide knowledge-based technology and serve to meet the needs of society in electrical and allied industries.
- To help in building national capabilities for excellent energy management and to explore non-conventional energy sources.
- To create research-oriented culture and to provide competent consultancy.
- To create and sustain environment of learning in which students acquire knowledge and learn to apply it professionally with due consideration of ethical and economic issues.
- To be accountable through self-evaluation and continuous improvement.

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
B.E. (Electrical & Electronics Engineering) <ul style="list-style-type: none"> Working Professional 	Part-Time	2024	3 Years	30
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
 Dr. E. Vidya Sagar M.E., Ph.D. (Head of the Dept.)	Distribution Reliability, Power Quality, Deregulated Power Systems, Smart Grid Distribution System
Senior Professor	
 Dr. G. Yesuratnam M.Tech., Ph.D.	Voltage Stability, Power Systems Security, Reactive Power Optimization, AI Applications to Power Systems
Professor	
 Dr. M. Manjula M.E., Ph.D.	Power Systems, Power Quality, Neural Networks, Microprocessors & Microcontrollers
 Dr. B. Mangu M.E., Ph.D.	Power Electronics, Electric Drives, Design of converters for renewable sources Integration
 Dr. G. Malleshham M.Tech., Ph.D., Post Doc.	Control Systems & Instrumentation, Neural Networks & Fuzzy Logic

Name of the Faculty		Areas of Interest
	Dr. P. Srinivas M.Tech., Ph.D.	Power Electronics, Industrial Drives & Special Electrical Machines with emphasis on Switched Reluctance Motor
	Dr. P. Satish Kumar M.Tech., Ph.D.	Power Electronics, Electric Drives, Multilevel Inverters, Matrix Converters and Special Machines
Associate Professors		
	Dr. M.V. Ramana Rao M.Tech., Ph.D.	Power Electronics, Electric Drives & Special Machines
	Dr. 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
	Dr. E. Sreeshobha M.Tech., Ph.D.	Power Electronics, Industrial Drives and Applications

Name of the Faculty		Areas of Interest
	Dr. R. Linga Swamy M.Tech., Ph.D.	Power Electronics & Drives, Multi level Inverters
	Dr. 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
	Dr. U. Suryavalli, M.Tech, (Ph.D.)	Power Electronics and Machine Drives
Assistant Professors (Contract)		
	Mrs. G. Jhansi Rani M.Tech., (Ph.D.)	Power Electronics and Industrial Drives
	Dr. 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**

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

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.
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
Dr. P. Satish Kumar	<ul style="list-style-type: none"> • Book Authored titled “Computational Intelligent Techniques in Mechatronics” Wiley publisher, released by Prof. M. Kumar, Hon’ble Vice Chancellor, Osmania University at 5:30pm on 26 October, 2024.
Dr. P. Satish Kumar	<ul style="list-style-type: none"> • authored a text book “Wind and Solar Energy Applications” Technological challenges and advances Published by CRC Press Taylor & Francies Group, 2023.
Dr. G. Mallesham	<ul style="list-style-type: none"> • Kumpati S. Narendra, “Control of a Microgrid: Introduction,” The Yale Publication, Report No.:1601, Electrical Engineering, Yale University, Connecticut, USA.
Dr. P. Satish Kumar	<ul style="list-style-type: none"> • authored a text book entitled “Computer Methods in Power Systems – Analysis with MATLAB” by BSP publications, India, 2021.
Dr. P. Satish Kumar	<ul style="list-style-type: none"> • Dr. P. Satish Kumar authored a text book “Electrical Machines – A Practical Approach” (ISBN 978-3-11-068195-6) published by De Gruyter Publisher, Germany.
Dr. P. Satish Kumar	<ul style="list-style-type: none"> • Dr. P. Satish Kumar authored a text book “Pulse Width Modulation – Performance Analysis in Multilevel Inverters” published by De Gruyter Olden Bourg, Germany, 2016, ISBN No. 978-3-11-046817-5.
Prof.G.Yesuratnam	<ul style="list-style-type: none"> • Punnaiah wrote a Chapter in Recent Developments in Engineering Research in Chapter 7 entitled “Advanced study in optimal design and analysis of solar water heating system using solar water factors for energy Efficiency and Thermal performance.

Sponsored Projects

Name of the Supervisor	Title of the project	Sponsored	Cost	Sanctioned Date & Duration of the project
Dr. P. Satish Kumar	Performance Enhancement of Grid Connected Multilevel Inverter based Wind Energy Conversion System with Low Voltage Ride Through Capability using Power Conditioners	India-Slovenia International Bilateral Scientific and Technological Cooperation Project, DST, New Delhi	Rs. 20,80,000/-	Jan 2022- Dec 2024 (3 years)
Dr. P. Satish Kumar	Design and Development of Hybrid Wind-Solar Power Generation System using Multilevel Inverters for Grid Connected Applications	Indo-Sri Lanka Joint Research Project, Department of Science and Technology (DST), New Delhi (DST/INT/SL/P-18/2016)	Rs.25,99,780 /-	2016 (3 years)
Dr. P. Satish Kumar	Investigation, Implementation & Performance Evaluation of Cascaded Multi level Inverter using SVPWM algorithm	UGC – Major research project (SB/FTP/ETA-157/2012)	Rs. 8.49 lakhs	2012 (3 years)
Dr. P.	Performance	Department of	Rs. 20.1	20/11/201



Name of the Supervisor	Title of the project	Sponsored	Cost	Sanctioned Date & Duration of the project
Satish Kumar	Evaluation of Diode-clamped Multi level Inverter using Space Vector Pulse Width Modulation	Science & Technology, New Delhi	lakhs	3 - 19/08/2017
Prof. B. Mangu	Integrated PV-Wind-Battery based Stand-alone Single-phase System for Household Application	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	29/7/2017 5 years
Dr. J. Upendar	Design and implementation of transmission line simulator laboratory model	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	3 years
Dr. B. Mangu	Grid Connected PV-Wind-Battery Based Multi-Input Transformer Coupled Bidirectional DC-DC Converter For Household Applications	TEQIP-II	Rs 1.0 lakh	16/11/2015 1 year
Dr. P. Srinivas	Implementation of bidirectional DC – DC	Department of Science & Technology, New Delhi	Rs 5.0 lakhs	July-2017 5 years

Name of the Supervisor	Title of the project	Sponsored	Cost	Sanctioned Date & Duration of the project
	converter			
Dr. M. Manjula	Mitigation of harmonics in a non- linear load	TEQIP-II	Rs 1.0 lakh	Nov-2015 1-year
Dr. E. Vidyasagar	Reliability Improvement of Distribution Systems using Fault Passage Indicators	TEQIP-II	Rs 1.0 lakh	Nov-2015 1-year

Research Publications of Faculty

Publication	Title	Year
Sr. Prof. G. Yesuratnam		
International Journal of Electric Power Systems Research (ELSEVIER)	A Practical approach to real-time network topology processing in a radial distribution system	2024
International Journal of Electrical Power and Energy Systems (ELSEVIER)	Chaotic Darwinian particle swarm optimization for real-time hierarchical congestion management of power system integrated with renewable energy sources	2021
International Journal of Advanced science and Technology (Scopus indexed)	Congestion management in deregulated environment aided by demand side response	2020
International Journal of Advanced science and Technology (Scopus indexed)	Transient stability improvement using SSSC and STATCOM	2020
Prof. M. Manjula		
International Journal of Electrical and Electronics Engineering (IJEET) -V10I2P103, IJEET (February-2023) (Scopus). Vol. 10, No. 2, pp. 19- 34, ISSN 2348-8379, https://doi.org/10.14445/23488379/ .	Optimized FOPID Controller for Transient Stability Improvement in a Microgrid with Energy Storage	2023
Gradiva Review Journal (GRJ) (January-2023) (Scopus) Vol.9, No. 1, pp. 496-503.	Optimal Fractional Order Controller for Liquid Level System	2023
Proceedings of the 2nd International Conference on Emerging Trends in Engineering (ICETE)	Optimized Analytical Crone controller for Electric Vehicle	2023

2023), ICETE 2023, AER 223, pp. 709–720, 2023. https://doi.org/10.2991/978-94-6463-252-1_71 .	System	
Proceedings of the National Conference on Future Electricity Systems: Challenges and Current Trends (NCEFES2021) pp. 203-213, 2021.	Fractional Order Controller based Performance Enhancement of Electric Vehicle System	2021
International Journal of Electrical and Electronics Research (IJEER), pp. 401-411, Volume 11, Issue 2.	A Fractional Order Tilt Integral Controller Based Load Frequency Control with Dispersed Generation and Electric Vehicle	2023
Proceedings of the Second International Conference on Emerging Trends in Engineering ICETE 2023 (ATLANTIS PRESS), pp. 736-750.	A Multi Degree of Freedom Based Hybrid Fractional Order Controllers for Load Frequency Control in Hybrid Systems	2023
Prof. B. Mangu		
International Journal of Renewable Energy Research (IJRER), vol. 14, No.1, pp. 38-47, March. 2024.	Optimal Coordinated Voltage Control in Distribution System Considering Smart Inverter Interfaced Solar PV Penetration	2024
International Journal of Electronics (Taylor & Francis), vol. 14, No.1, pp. 1-17, March. 2024.	A novel switched-capacitor based multilevel voltage boost inverter for EV interface	2024
International Journal of Electrical and Electronics Research (IJEER) Open Access Rapid and quality publishing Research Article Volume 11, Issue 2 Pages 465-472 e-ISSN: 2347-470X, June. 2023.	Design and Control of a Tricycle with a Hybrid Electric Motor Cooling System Powered By Solar Photovoltaic	2023
International Journal of Electrical and Electronics Research (IJEER) Open Access Rapid and quality publishing Research Article Volume 11, Issue 2 Pages 457-464 e-ISSN: 2347-470X – 2023	Development and Application of an energy Management for electrical Vehicles integrated with Multi-input DC -DC Bi-directional Buck- Boost converter	2023
Bulletin of Electrical Engineering and Informatics), vol. 11, No.6, pp. 3091-3098, Dec. 2022.	Power system contingency classification using machine learning technique	2022
International Journal of Early Childhood Special Education (INT-JECS) ISSN: 1308-5581, vol no. 14, Issue 03 2022	Wireless EV Battery Charging system using circular-square coupled coils with interoperability and misalignments	2022
Journal of Optoelectronics Laser ISSN: 1005 - 0086 Vol. 41 Issue 3, March 2022.	Design and Simulation of Hybrid Electric Bicycle powered by Solar Photovoltaic to Reduced CO2 emissions	2022
Asian Journal for Convergence In Technology,	Enhancing Inertia of a Grid	2021

vol. 7, no.1, pp. 150-154, Apr. 2021	Connected PV System to Improve Frequency Regulation and Stability	
International journal of Mechanical Engineering, ISSN 0974-5823 Vol. 7 No. 4, April 2021	Interoperability IPT system accurate computation of MI between Spiral-Square Inductive Coupled Coils with Different Misalignments	2021
Solar Energy (ELSEVIER), Vol. 210, pp. 128-148, Nov. 2020	State-of-the-art power electronics systems for Solar-to-grid integration	2020
International Journal of Electrical and Electronics Research (IJEER) Open Access Rapid and quality publishing Research Article Volume 11, Issue 1 Pages 192-201 e-ISSN: 2347-470x – 2023	Grid-Tied Solar Power Sharing with V2G and G2V Power Exchange with Dual Bridge Integrated Electrical Vehicle	2023
Journal of Data Acquisition and Processing ISSN: 10004-9037 July 2023	Composite Features and Ensemble Learning for the Detection and Classification PQDS	2023
2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), pp. 1-5, Dec. 2023	Long-Term operational Energy production analysis of 200KWp Roof Top Grid Interactive Solar PV System: A Research Study	2023
Second International Conference on Emerging Trends in Engineering (ICETE 2023), pp. 605-613, Nov. 2023.	Effect on Synchronous Generators Due to Intermittency of Solar Power in a PV: Grid Integrated Power System	2023
2023 IEEE Renewable Energy and Sustainable E-Mobility Conference (RESEM), pp. 1-5, Nov. 2023.	Novel Nine-Level Dual Boost Capacitor based Inverter with Single DC Source	2023
2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), pp. 1-6, Aug. 2022	Analysis of H6, HERIC and FB Single-Phase Transformerless Grid-Tied Inverter for minimization of leakage current using SVPWM strategy	2022
2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), pp. 1-6, Aug. 2022	Design and Analysis of a High-Efficiency dual side SS Compensation topology of Inductive Power Transfer for EV battery charging System	2022
2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), pp. 1-6, Aug. 2022.	Design and Performance Analysis of Compensation Capacitors In PS Topology for Wireless System on Receiver Side	2022
2021 IEEE Transportation Electrification Conference (ITEC-India), pp. 1-6, Dec. 2021.	Design and Analysis of Compensation Capacitors In PS Topology for Wireless System with Buck/Boost	2021



	Converter on Receiver Side	
Journal of Physics: Conference Series doi:10.1088/1742-6596/2089/1/012041	A Peer Review of Hybrid Electric Vehicle Based on Step-Up Multi-input DC-Dc Converter and renewable energy source	
Prof. G. Mallesham		
Electric Power Components and Systems, Taylor & Francis, Journal Scopus Indexed	A Robust UDE-Based 2DOF Controller for Mitigating Sub-Synchronous Control Interaction in Wind Power Plants	2023
Journal of Bulletin of Electrical Engineering and Informatics (BEEI),	Performance improvement of UQC with sliding mode fractional order proportional integral control with enhancement of harmonics mitigation	2023
Wind and Solar Energy Applications Taylor & Francis Group, eBook ISBN: 9781003321897 (CRC Press)	Adaptive Control of Smart Microgrid Using AI Techniques	2023
Wind and Solar Energy Applications Taylor & Francis Group, eBook ISBN: 9781003321897 (CRC Press)	A Review on Multi objective Control Schemes of Conventional Hybrid DC/AC Microgrid	2023
2nd International Conference on Emerging Trends in Engineering (ICETE 2023) SPRINGER	Control of Quasi Z- Source Converter in a Microgrid using modified power Ratio P&O MPPT	2023
Journal of Semiconductor Optoelectronics	Multi-objective Optimisation techniques for the reduction of Torque Ripples in Switched Reluctance motor Using TSF-DITC	2023
Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer	Implementation of a New Hybrid Boost Converter for High Gain Enhancement of SOFC System	2022
In Communication and Intelligent Systems: Proceedings of ICCIS 2021, pp. 295-308. Singapore: Springer Nature	A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC	2022

IJMDES	An Expert System for Design of Output Parameters for BLDC Motor	2022
Materials Today: 2022 – Elsevier Proceedings (2022)	A new hybrid boost converter with P & O MPPT for high gain enhancement of solar PV system	2022
Journal of Control, Journal of Control, Automation and Electrical Systems	An Efficient Technique-Based Distributed Energy Management for Hybrid MG System: A Hybrid RFCFA Technique	2020
Recent Developments in Electrical and Electronics Engineering: Select Proceedings of ICRDEEE 2022	Hybrid AC/DC Microgrid Control and Management of Power Using Bidirectional AC/DC Converter by Autonomous Control Mode	2023
International Conference on Power Energy, Environment & Intelligent Control (PEEIC) IEEE	The Effects of FOPID Controller Parameters on Sub synchronous Control Interaction Type of Stability Issue in DFIG Wind Power Systems	2023
6th International Conference on Electronics, Communication and Aerospace Technology [ICECA 2022]	Autonomous Integrity Monitoring of INS/GPS Integrated Navigation System under Multipath Environment	2022
National Power Electronics Conference (NPEC) IEEE	Control of Asymmetrical Multilevel STATCOM with Hybrid Energy System	2021
3rd International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2021)	Implementation of a New Hybrid Boosting Converter for High Gain Enhancement of SOFC System	2021
International Conference on Computing, Communication, and Sensor Networks 2021	A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of Solar PV System	2021



ICCCEEE 2020	Power Quality Improvement of a Decentralized Hybrid Sustainable Energy System	2021
3rd International Conference on Communication and Intelligent Systems (ICCIS 2021)	A New Hybrid Boost Converter with Cuckoo Search MPPT for High Gain Enhancement of PEMFC	2021
Energy Systems, Drives and Automation: Proceedings of ESDA 2019 pages 13-23, Springer Singapore, 2020	Implementation of ANN-Based UPQC to Improve Power Quality of Hybrid Green Energy System,	2020
International Conference on Emerging Trends in Engineering (ICETE)	Power quality improvement of weak hybrid pemfc and scig grid using upqc	2020
4th Electric Power and Renewable Energy Conference (EPREC-2023) Springer	Automatic generation control of multi area power systems using BELBIC	2023
Engineering, Technology & Applied Science Research (ETASR), Journal	Concert Exploration of DFIG Grid-integrated MMC using Artificial Intelligence	2023
Prof. E. Vidya Sagar		
International Journal of Applied Power Engineering (IJAPE) Vol. 13, No. 1, March 2024, pp. 178~185 ISSN: 2252-8792, DOI: 10.11591/ijape.v13.i1.pp178-185.	Reliability analysis of an automated radial distribution feeder for different configurations and considering the effect of forecasted electrical vehicle charging stations	2024
International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 09 Issue: 09 Feb 2023.	Estimation of Radial Distribution Feeder Sections Average Failure Rate for Different Located Future Forecasted EV Charging Stations	2023
International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-12 Issue-5, June 2023.	Reliability Evaluation of Radial Distribution Feeder Considering Two Load Modelling of Forecasted Electric Vehicle Load	2023
International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), PP: 58-67, Volume-13 Issue-1, October 2023. Blue Eyes Intelligence Engineering and Sciences Publication- BEIESP, DOI: 10.35940/ijeat.A4310.1013123.	Reliability Comparison of Rural & Urban LVDS Networks with Corresponding HVDS Networks Including Substation Reliability	2023
	Comparison of Reliability-	2023

IEEE 7th international conference on computer applications in electrical engineering RECENT Advances (CERA)	Based Customer Interruption Cost for Indian Rural & Urban LVDS with Corresponding HVDS	
GRADIVA REVIEW JOURNAL, ISSN NO: 0363-8057.	Reliability Comparison of LVDS and Corresponding HVDS of Rural & Urban Radial Feeder Networks	
International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 11 Issue: 10 2023.	Closed Loop Control of DSMST Converter for Ev Applications	2023
Journal of Harbin Engineering University ISSN: 1006-7043 1114 Vol 44 No. 11 November 2023.	Performance Analysis of DSMST Converter Fed BLDC Motor	2023
Journal of Harbin Engineering University ISSN: 1006-7043 644 Vol 44 No. 11 November 2023.	Control Of PV Integrated DAB Under Shading Conditions Using Improved Incremental Conductance MPPT Scheme	2023
Recent Advances in Electrical & Electronic Engineering, volume 17, issue , pages 1-25, year 2024, issn 2352-0965/2352-0973, doi 10.2174/0123520965269898231205045322.	Multi-objective based Hybrid Artificial Intelligence Controlled Parallel Inverter in Islanded and Grid Connected Operations	2024
International Journal of Renewable Energy Research (IJRER), Vol. 14, No.1, March, 2024.	Performance Investigation of PV Battery Integrated Parallel Operated Inverters in Standalone Mode	2024
International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-12 Issue-5, June 2023.	Effect of a Single Fault Passage Indicator Placement on Radial Distribution System Reliability under Two Weather 54 Conditions	2023
International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-12 Issue-4, November 2023.	Reliability Evaluation of a Radial Feeder Configurations by Replacing the Distribution Transformer with the Solid-State Transformer	2023
International Research Journal of Engineering and Technology, Volume: 09 Issue: 12 Dec 2022, e-ISSN: 2395- 0056. www.irjet.net p-ISSN: 2395-0072.	Reliability Evaluation of a Radial Feeder with the Placement of Both Shunt Capacitors and a Fault Passage Indicator	2022
2023 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA), Roorkee, India, 2023, pp. 1-	Reliability Evaluation of a Radial Distribution System with the Placement of Shunt Capacitors and Fault Passage	2023

6, doi: 10.1109/CERA59325.2023.10455167.	Indicators Considering Normal and Adverse Weather Effects	
Prof. P. Satish Kumar		
Learning and Analytics in Intelligent Systems Journal, Springer Publisher, Vol. 4, pp. 507-509	A New Topology of Interline Unified Power-Quality Conditioner for Multi Feeder System	2020
International Journal of Power Electronics, Inderscience Publishers, Vol.12, No.3, pp. 282-301. https://doi.org/10.1504/IJPELEC.2020.110063 .	Evaluation of POD and APOD multicarrier SPWM techniques for three-phase seven-level diode clamped multilevel inverter fed induction motor drive using FPGA	2020
IEEE Access Journal, IEEE Publisher, Vol. 8, pp. 8336-8345.	Energy management system for small scale hybrid wind solar battery based microgrid	2020
International Journal of Advances in Applied Sciences (IJAAAS), Vol. 9, No. 1, 2020, pp. 20-26, ISSN: 2252-8814, DOI: 10.11591/ijaas.v9.i1.pp20-26.	Simplified down sampling factor based modified SVPWM technique for cascaded inverter fed induction motor drive	2020
IEEE Access Journal, IEEE Publisher, Vol. 8, pp. 44903-44912, 2020.	A novel IUPQC for multi-feeder systems using multilevel converters with grid integration of hybrid renewable energy system	2020
IEEE PES/IAS Power Africa Conference Proceedings, pp. 1-5, 2020, 978-1-7281-6746-6/20/\$31.00 ©2020 IEEE.	Design and Development of Hybrid Wind – Solar - Battery Power Generation System using SVPWM based Multilevel Inverter for Grid Connected Application	2020
IEEE International Conference for Innovation in Technology (INOCON), IEEE Publisher, pp. 1-6, 2020.	Agriculture Automation using Deep Learning Methods Implemented using Keras	2020
Materials Today: Proceedings, Elsevier Publisher, Vol.54, pp.710-727, 2021, https://doi.org/10.1016/j.matpr.2021.10.410 .	LSPWM, PSPWM and NLCPWM on multilevel inverters with reduced number of switches	2021
Information and Communication Technology for Competitive Strategies (ICTCS 2021) ICT: Applications and Social Interfaces, Springer Nature Singapore, pp. 325-351, 2021.	Comparative Analysis of Multi-level Inverters with Various PWM Techniques	2021
International Journal of Ambient Energy, Taylor & Francis Publisher, Vol. 43, Issue 1, pp. 2397-	Design and implementation of wind turbine emulator using FPGA for stand-alone	2022

2409, 2022, https://doi.org/10.1080/01430750.2020.1736152 .	applications	
Jurnal Kejuruteraan (Journal of Engineering), UKM Press (Universiti Kebangsaan Malaysia Publisher), Vol. 35 (6), pp. 1393-1401, 2023.	Performance Analysis of Switched Reluctance Motor by using Closed Loop Current Control Technique	2023
Journal of New Materials for Electrochemical Systems, Vol. 26, Issue 4, pp. 232-242, 2023.	Harmonics Reduction and Balanced Transition in Hybrid Renewable Energy Sources in a Micro Grid Power System	2023
Proceedings of the Second International Conference on Emerging Trends in Engineering (ICETE 2023), Atlantis Press, Vol. 223, pp. 697-708, 2023, 10.2991/978-94-6463-252-1_70 .	Harmonics Reduction and Balanced Transition in Hybrid Renewable Energy Sources	2023
Second International Conference on Emerging Trends in Engineering (ICETE 2023), Atlantis Press, pp. 728-735, 2023, 10.2991/978-94-6463-252-1_73.	Battery Supported Solar PV Panel Based Multilevel Inverter with Optimal PI Controller Using Hybrid GA-PSO Algorithm	2023
Engineering Research Express, © 2024 IOP Publishing Ltd, Vol. 6, No. 1, 015074, 2024, 10.1088/2631-8695/ad1b71.	Design and control of LSTM-ANN controllers for an efficient energy management system in a smart grid based on hybrid renewable energy sources	2024
International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 11, Issue 9, pp. 2917-2931, 2023, https://doi.org/10.17762/ijritcc.v11i9.9394	Design and Performance Analysis of a Neural Network Sliding Mode based Hybrid Controlled Islanded Micro-Grid	2023
International journal of Computer Integrated Manufacturing Systems (CIMS), (SCOPUS) Vol. 28, No. 11, pp. 574-602, November 2022.	GWO Based Modified SHEPWM for Grid Connected MLI with Reduced Number of Switches	2022
Compliance Engineering Journal, Vol. 12, Issue. 12, 2021, pp. 121-131, ISSN NO: 0898-3577, (SCOPUS) UGC Approved Journal, Impact Factor: 6.2, standard age of the journal: 17 years	Comparative Analysis of Modified SHE-PSO PWM And LS-PWM Techniques	2021
Journal of Information and Computational Science” volume 11, issue 7, 2021 pp 48-67 (ISSN NO: 1548-7741, Impact Factor 6.2)	Design and performance of Five Level Diode Clamped Inverter based Hybrid Energy System and their THD	2021



	Analysis	
Strad Research Journal (Web of Science) volume 8, issue 7, 2021 pp 121-136 (DOI: 10.37896, Impact Factor: 6.1	Modelling and Performance Hybrid Energy System based Cascaded H-bridge Inverter using Space Vector Pulse Width Modulation Technique	2021
Dr. M.V.Ramana Rao		
International Journal of Modern Developments in Engineering and Science, Vol. 1, Issue 2	An Expert System for Design of Output Parameters for BLDC Motor	2022
Dr. N. Susheela		
International Journal of Power Electronics and Drive System (IJPEDS) (Scopus) Impact Factor: 1.86 (Accepted)	THD Analysis of 15-level Multilevel Inverter using Lesser Number of Switches with Nearest Level Control Technique	2024
International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 18, No. 4, pp. 331-338, 2023(Scopus) Impact Factor: 1.4 DOI: 10.37622/000000	Regulation of Active and Reactive Powers in grid tied load by PV- STATCOM	2024
International Journal of Renewable Energy Research, ISSN: 1309-0127, vol.14, no.1, march 2024 (Scopus) Impact Factor: 1.6	Performance Investigation of PV Battery Integrated Parallel Operated Inverters in Standalone Mode	2024
International Journal of Electrical and Electronics Research (IJEER) scopus indexed journal, Vol. 12, no. 2, March 2024	“Improved Power Sharing for Parallel Connected Inverters in Standalone Micro-grid”	2024
International Journal of Research and Analytical Engineering, Vol. 10, no. 1, 2024 (UGC approved)	“Modified Space Vector Modulation Technique for Circulating Current Reduction in Parallel Inverters”	2024
IEEE IAS Global Conference on Emerging Technologies, May 20-22, 2022	Carrier based PWM method to evaluate MLI performance using output voltage boost fed induction motor with less device count	2022
M. 2021 IEEE sponsored International Conference on Emerging Trends in Industry 4.0 (ETI 4.0) held at OP Jindal University, Raigarh, Chhattisgarh, India during 19th to 21st, May 2021. (Citation: 1)	Sinusoidal Tracking Method for Cascaded Multilevel Inverter fed Induction Motor Drive	2022



International Journal of Power Electronics, Inderscience Publications, Vol. 12, No. 3, pp.282-301, 2020. (Scopus), ISSN: 1756-6398, (Impact factor: 0.64) (Citations: 2)	Evaluation of POD and APOD multicarrier SPWM techniques for three-phase seven-level diode clamped multilevel inverter fed induction motor drive using FPGA	2021
Vol.2, Springer Nature Switzerland AG 2020, pp. 481 – 489 (Impact factor: 1.310) ISSN 2662-3447; ISBN 978-3 030-24317-3 https://doi.org/10.1007/978-3-030-24318-0	Hardware In Loop Simulation of Advanced Aerospace Vehicle	2021
Dr. B. Sirisha		
International Journal of Applied Power Engineering (IJAPE) Vol.8, No.1, April 2020, pp. 93-103ISSN: 2252-8792, (Impact factor: 1.5).	A Grid interconnected Novel Five-Level Voltage Source Inverter with SRF controller for voltage synchronization	2020
International Journal of Applied Power Engineering (IJAPE) Vol. 10, No. 4, December 2021 (Impact factor: 1.5).	A grid interconnected nested neutral point clamped inverter with voltage synchronization using synchronous reference frame controller	2021
Journal of Emerging Technologies and Innovative Research (JETIR), December 2021, Volume 8, Issue 12 (UGC-Approved) (Impact factor: 7.95).	Three-phase improved cascaded multilevel inverter with multi-carrier sinusoidal pulse width modulation with variable frequency technique for THD reduction	2021
Journal of Emerging Technologies and Innovative Research January 2022, Volume 9, Issue 1 (UGC-Approved) (Impact factor: 7.95)	Design and Analysis of a DC-DC Boost Converter with Solar PV Module Integrated to 3-phase Grid using SRF Controller	2022
Gradia Review Journal Volume 8, Issue 2, February 2022.(Scopus Indexed) (Impact factor: 0.101).	Design And Analysis of High Gain Boost Converter for standalone applications	2022
Bulletin of Electrical Engineering and	A novel five-level voltage	

Informatics Vol. 11, No. 1, February 2022 (Impact factor: 0.357).	source inverter interconnected to grid with SRF controller for voltage synchronization	2022
Gradia Review Journal Volume 8, Issue 3, March 2022.(Scopus Indexed) (Impact factor: 0.101).	Design And Analysis Of High Gain Boost Converter with PV Array	2022
International Journal of Applied Power Engineering (IJAPE) Vol. 11, No. 1, March 2022.(Scopus Indexed)(Impact factor: 1.5).	Implementation and study of fuzzy based KY boost converter for electric vehicle charging	2022
International Journal of Applied Power Engineering (IJAPE) Vol. 11, No. 1, March 2022.(Scopus Indexed)(Impact factor: 1.5).	Analysis of switched impedance source/quasi-impedance source DC-DC converters for photovoltaic system	2022
Bulletin of Electrical Engineering and Informatics Vol. 11, No. 2, April 2022. (Scopus Indexed)(Impact factor: 0.357).	High efficient and high gain boost converter with soft switching capability connected to grid using dq axis current control	2022
Bulletin of Electrical Engineering and Informatics Vol. 11, No. 2, April 2022, (Scopus Indexed)(Impact factor: 0.357).	A mitigation technique for torque ripple in a brushless DC motor by controlled switching of small DC link capacitor	2022
International Journal of Advances in Applied Sciences (IAAS) Vol. 11, No. 2, June 2022 H-index-7 (Impact factor: 0.59).	Single phase grid interconnected high gain boost converter with soft switching capability	2022
Gradiva Review Journal Volume 8, Issue 7, 2022.(Scopus Indexed) (Impact factor: 0.101).	Simulation of Predictive Torque control in Asynchronous Motors with influence on inaccuracy of Motor Parameters	2022
Second International Conference on Emerging Trends in Engineering(ICETE-2023) during 28.4.2023 to 30.04.2023 at Osmania University, Hyderabad	Performance of Fuel cell and PV integrated hybrid DC/AC microgrid based on the Grey Wolf optimization algorithm	2023
Dr. N. Srilatha		
International Journal of Innovative Research and Analytical Reviews, EISSN: 2348-1269, PISSN: 2349-5138, Vol. 10, Issue. 2, (UGC approved)	Switched Capacitor Multilevel Inverter for Transformer-less Grid-	April 2023

	Connection Applications	
International Journal of Innovative Research in Technology, ISSN: 2349-6002, Vol. 9, Issue. 10, (UGC approved)	Grid Connected Dual VSI Modules with Renewable Sources for Power Quality Improvement using Optimal Power Sharing	March 2023
Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Vol. 9, Issue. 9 (UGC approved)	Surveillance of Captive Generation Units unified with Solar Power Plants	September 2022
International Journal of Creative Research Thoughts, ISSN: 2320-2882, Vol. 10, Issue. 3, (UGC approved)	Optimal Placement of Micro-PMUs in Reconfigurable Smart Distribution System	March 2022
GIS Science Journal, ISSN:1869-9391, E-ISSN:1869-9391, Vol.8, Issue. 11, page no: 1453-1465. (SCOPUS indexed, UGC approved)	Optimal Placement of PMU With Limited Channels Considering Topology Transformation	November 2021
International Journal of Electrical Power and Energy Systems, Elsevier, Online ISSN: 1879-3517, Vol. 128, (SCI Journal) (Impact factor: 5.2)	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		
International Journal of Creative Research Thoughts, May 2023	Optimal Allocation and Sizing of Distributed Generation using Linear Programming	2023
Journal of Emerging Technologies and Innovative Research, May 2023	Optimal Allocation and Contingency Analysis of Distributed Generation Deployment in Radial Distribution Network using Cuckoo Search Algorithm	2023
International Journal for Research in Applied Science & Engineering Technology, April 2023	Grid Synchronization of Wind Based Microgrid	2023
Journal of Emerging Technologies and	Optimal Allocation and	

Innovative Research, February 2023	Sizing of Distributed Generation using Sequential Quadratic Programming	2023
Electrical Engineering, Springer, 2022	Optimal Placement of Distributed Generation Based on DISCO's Financial Benefit with Loss and Emission Reduction using Hybrid Jaya-Red Deer Optimizer	2022
Clean Technologies, MDPI, 2022	Optimal Placement of Distributed Generation in Radial Distribution System Based on Power Quality using Self Adaptive Levy Flight based Jaya Algorithm	2022
Journal of Technology and Economics of Smart Grids and Sustainable Energy, Springer, May 2021	Optimal Placement of Distribution Generation in Radial Distribution System using Hybrid Genetic Dragonfly Algorithm	2021
International Journal of Emerging Electric Power Systems, Degrueter, 2021	Optimal Placement of Distribution Generation in Radial Distribution System using Hybrid Genetic Dragonfly Algorithm	2021
Journal of Material Science and Engineering, IOP Publishing, 2020	Optimal Placement of Distributed Generation using Firefly algorithm	2020
2 nd International Conference on Emerging Trends in Engineering , ICETE, UCE, Osmania University, Hyderabad, India, April 28-30, 2023.	Optimal Allocation and Sizing of Distributed Generation in Radial Distributed System using Ant Colony Search Algorithm	2023
Dr. R.Linga Swamy		
International Journal of Power Electronics , Inderscience publishers, Vol. 19, No. 2, pp. 132-152, ISSN: 1756-6398 (Scopus Indexed Journal)	Novel switching sequence to reduce CMV without increase in current THD for three-level inverter	February 2024
International Journal of Power Electronics and Drive Systems, IAES, vol. 13, Issue 4, pp2348-2356, ISSN: 2088-8694, (Scopus Indexed Journal)	Evaluation of insulated gate bipolar transistor valve converter based unified power flow controller reliability and	December 2022

	efficiency	
i-manager's Journal on Electrical Engineering, Vol. 15, issue 4.	Reduction of Common mode voltage for cascaded three-level inverter	April - June 2022
i-manager's journal of Electrical Engineering, Volume No. 11, Issue No. 10, ISSN: 0973-8835	Analysis of Selective Harmonic Elimination for Three-phase Voltage/Current Source Inverter	April - June 2021
International Journal of Engineering Research and Applications (IJERA), Volume No. 14, Issue No. 4, ISSN: 2248-9622	Power Optimization of grid connected DFIG wind energy system	October 2021
International Journal of Engineering Research and Applications (IJERA), Volume No. 11, Issue No. 12, ISSN: 2248-9622	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	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	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	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	Multi Level Inverter THD minimization by Improved Particle Swarm Optimization	October 2021
Dr. P. Lokender Reddy		
i-manager's Journal on Power Systems Engineering, Vol. 9 No. 2 May - July 2021	Chaotic Particle Swarm Optimization With Attractive Search Space Border Points For Optimal Reactive Power Dispatch	2021
International Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 11, Issue 12, (Series-I) December 2021, pp. 25-32	Simplified SVPWM for Three-Level Inverter Extending Operation into	2021

	Over Modulation Region	
International Journal Of Advanced Research in Engineering& Management (IJAREM) ISSN: 2456-2033 Vol. 07, Issue 10, 2021 pp 47-54	Multi Level Inverter THD minimization by Non-Linear Programming Interior Point Method	2021
International Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 11, Issue 10, (Series-IV) October 2021, pp. 38-42	Multi Level Inverter THD minimization by Improved Particle Swarm Optimization	2021
Mrs. G. Jhansi Rani		
Journal of Harbin Engineering University ISSN: 1006-7043 644 Vol 44 No. 11 November 2023.	Control Of PV Integrated DAB Under Shading Conditions Using Improved Incremental Conductance MPPT Scheme	2023
International Research Journal of Engineering and Technology, Vol. 10, Issue 4, pp. 1029-1035	Performance Exploration of Single Phase DAB DC-DC Converter under Load Variation	2023
Journal of Technology, Volume 14, Issue 3, pages: 23-35, March -2024. ISSN: 1012-3407.	Design and Performance Analysis of Battery Electric Vehicle Using Matlab-Simulink	2024
Dr. S. Vijender Reddy		
Renewable energy focus, Elsevier, Vol. 48, January 2024.	Performance of distribution network by connecting solar and wind DGs	2024
International Journal of Applied Power Engineering (IJAPE), Vol. 12, No. 1, pp. 83-89, March 2023.	Reliable and Efficient Operation of Distribution Network by connecting Solar Distributed Generation	2023
International Journal of advanced research in electrical, electronics and instrumentation engineering, Vol. 11, issue 4, pp.1761-1769, April 2022.	Power Loss Reduction and Voltage Regulation in DN with Unbalanced loads by Connecting DG using MOSMA	2022
Springer journal, Advances in Decision Sciences, Image Processing, Security and Computer Vision, pp. 335-344, 2020.	Calculation of Voltages and Power Losses with Multiple DG Units with Change of Load	2020
International Conference on Emerging Trends in Engineering (ICETE 2023). Hyderabad,	Voltage Regulation and Power Loss Reduction in DN with DG when load changes	2023

November-09, 2023.	using MOSMA	
Mr. G. Kiran Kumar		
International Journal of Statistics and Reliability Engineering Vol. 10 (3), pp. 634-641, 2023, ISSN (P): 2350-0174, ISSN (O):2456-2378.	Reliability Evaluation of Radial Distribution System for Different Substation Configurations under Normal and Two-Weather Conditions	2023
International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-12 Issue-5, June 2023.	Effect of a Single Fault Passage Indicator Placement on Radial Distribution System Reliability under Two Weather 54 Conditions	2023
International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-12 Issue-4, November 2023.	Reliability Evaluation of a Radial Feeder Configurations by Replacing the Distribution Transformer with the Solid-State Transformer	2023
International Research Journal of Engineering and Technology, Volume: 09 Issue: 12 Dec 2022, e-ISSN: 2395- 0056. www.irjet.net p-ISSN: 2395-0072.	Reliability Evaluation of a Radial Feeder with the Placement of Both Shunt Capacitors and a Fault Passage Indicator	2022
IEEE 7th International Conference on Computer Applications in Electrical Engineering-Resent Advantages (CERA 23), IIT Roorkee. 979- 8-3503-0500-5/23/\$31.00 ©2023 IEEE.	Reliability Evaluation of a Radial Distribution System with the Placement of Shunt Capacitors and Fault Passage Indicators Considering Normal and Adverse Weather Effects	2023
International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-12 Issue-5, June 2023.	Reliability Evaluation of Radial Distribution Feeder Considering Two Load Modelling of Forecasted Electric Vehicle Load	2023

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

Future Plans of the Department

To establish Research Centers in the field of

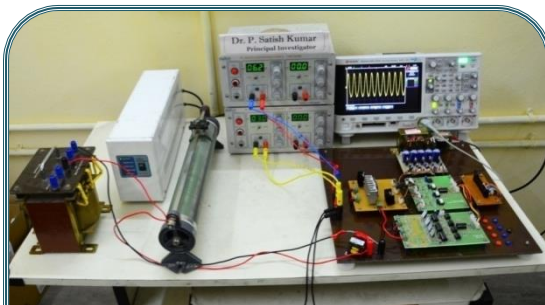
- Power Systems
- Special Electrical Machines
- Power Electronics & Industrial Drives

Research Lab for Multilevel Inverters

(Established by Dr. P. Satish Kumar)



Three Phase Eleven – Level Cascaded H-Bridge Inverter



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



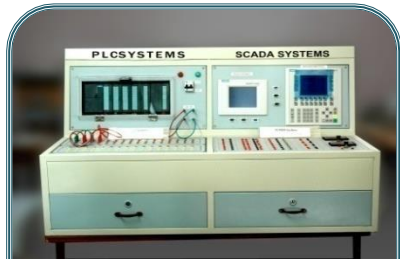
Industrial Process Control Trainer



IPM Power Module with DSP Controller



Photo Voltaic Training and Research Kit



PLC and SCADA Systems



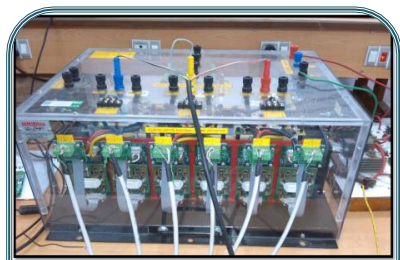
Power Analyzer



Relay Protection Test Set



**DSP based Multilevel Inverter
Fed Induction Motor Drive**



3 - Level Diode Neutral Clamped Inverter



Project:
PROPOSED BUILDING FOR ELECTRICAL ENGG DEPT.
IN THE PREMISES OF UNIVERSITY COLLEGE OF
ENGINEERING, HYDERABAD.

Title :
DEPT.OF ELECTRICAL ENGINEERING

Client:
TSEWIDC, HYDERABAD

Consultants:
S.S. Infrastructure Project Consultants Pvt. Ltd.
 Plot No. 18, Narayan Puram, Begur, Secunderabad-50
 Hyderabad-500004, Ph: 9848 1010077, 475, 487
 website : www.ssgroup.co.in email : ssgroup@ssg.co.in



Foundation Stone Laying Prof. Y. Narasimhan Building Dated: 04th March 2024



**Felicitation Ceremony of our Distinguished Alumnus Dated: 04-03-2024
- Shri Gopal T.K. Krishna**

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING





DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
Phone No: 8331997307, Email: ecedepartmentou@osmnaia.ac.in

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.









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.





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





Faculty:

Faculty		S.No.	Name of the Faculty	Field of Interest
PROFESSORS				
1.		Prof. D. Ramakrishna Ph.D HEAD	RF & Microwave Communication Systems	
2.		Prof. P. Chandrasekhar Ph.D	VLSI and Embedded Systems, Parallel Processing and Numerical Techniques.	
3.		Prof. B. Rajendra Naik Ph.D	VLSI Design, Communication and Image & Signal Processing	
4.		Prof. L. Nirmala Devi Ph.D	Signal Processing & Wireless Sensor Networks	
5.		Prof. P. Naveen Kumar Ph.D	Global and Regional Satellite Navigation Systems, Satellite Based Augmentation Systems and Radio wave propagation	
6.		Prof. P. Kotilakshmi Ph.D	VLSI Design, Digital Systems & Communication Systems.	
ASSOCIATE PROFESSORS				
7.		Dr. A. Bharathi Ph.D.	Microwave Antennas, RF and Microwave Engineering, EM wave theory	
8.		Dr. R. Sandhya Ph.D.	Wireless Communications, Optical Communication	

ASSISTANT PROFESSORS

9.		Mrs.P. Padma M.Tech, (Ph.D)	VLSI Design, Testability, Communication System and Mixed Signal Design
10.		Dr. M. Shyamsunder Ph.D	Signal Processing, Microwave Engineering
11.		Mr. Md. Misbahuddin M.E, (Ph.D)	VLSI Design, Analog Electronics, Microprocessors
12.		Mrs. P. Srividya M.E, (Ph.D)	Signal Processing, Wireless Communications

ASSISTANT PROFESSORS (Contract)

13.		Mr. B. Ramesh M.Tech	VLSI design
14.		Mr. K. Prem Kumar B.E, (M.E)	Wireless Communication
15.		Mr.R. Narendra Reddy M.E, (Ph.D)	Microwave Antennas
16.		Mr. G. Kishore Kumar M.E	Systems and Signal Processing

1. 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.

2. 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.



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

Multimedia Project

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

DST – FIST

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

S.No	Name of the Equipment
1	Laser Range Finder Make: Survey Labs, Model: IKE 305
2	CDMA DSSS Trainer Kit with PC based Logic Analyzer Make: Sciencetech, Model: 2131A
3	Satellite Communication Trainer Kit Make: Sciencetech, 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”.

3. 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.NaveenKumar

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.19.81Lakhs 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).

4. Consultancy Projects details from 2017-2021

Prof.B.RajendraNaik

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 RajendraNaik 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

5. 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.

6. 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.

7. 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 ALTY5 – SPARTRAN – 6 FPGA boards.
- Xilinx VERTEX – 5 FPGA boards.
- 8086 Microprocessor trainer kit with interfaces
- Cypress PSOC – 8051 and ARM Trainer kits.
- HP Proliant ML 110 – G7 Intel Xeon E3- 1200 Server
- 10 KVA UPS battery backup facility
- Universal IC tester
- 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

8. List of Publications in International Journals by Faculty:

Prof.Chandra Sekhar

1. Ahmed Noami, B. Pradeep Kumar, and P. Chandrasekhar “ 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 , 2021
2. Ahmed Noami, B. Pradeep Kumar, and P. Chandrasekhar, ”High Speed Data Transactions For Memory Controller Based on AXI4 Interface Protocol SoC”, The 1stIEEE International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies, Bhilai, Chattisgarh 19th – 20th February 2021
3. Mohd Ziauddin Jahangir, P Chandrasekhar, Md Sikander, M.V. Shravanthi, “DESIGN OF AN ALL DIGITAL PHASE-LOCKED LOOP USING CORDIC ALGORITHM” International conference on advances in signal processing and communication engineering (ICASPACE 2021) MGIT, Hyderabad, India, 29th – 31st July, 2021
4. P Pradeep, K Jaya Sankar and P Chandra Sekhar, “A Compact Semi-Circular Slot MIMO Antenna with Enhanced Isolation for Sub-6 GHz 5G WLAN Applications”, Wireless Personal Communications, May, 2022

PROF.B.RAJENDRA NAIK

1. SangeetaSingh, JVR Ravindraand B RajendraNaik, “Proffering Secure Energy Aware Network-On-Chip (Noc) Using Incremental Cryptogine”, *Sustainable computing: informatics and systems, volume 35*, doi.org/10.1016/j.suscom.2022.100682
2. SangeetaSingh, JVR Ravindraand B RajendraNaik, “Design and implementation of network-on-chip router using multi-priority based iterative round-robin matching with slip”, *Transactions on Emerging Telecommunications*, 2022, doi.org/10.1002/ett.4514.

3. SangeetaSingh, JVR Ravindraand B RajendraNaik, "Design and Analysis of a Novel Low Complexity and Low Power Ping Lock Arbiter by using EGDI based CMOS Technique, *International Journal of Integrated Engineering*, 2022
4. Jeripotula, Praneet Raj, B. RajendraNaik, and RajuMudavath. "A Novel Hybrid Weighted Method-Based Beamforming for Sidelobe Level Reduction in Radar Applications." *Arabian Journal for Science and Engineering* -2022
5. Gugulothu, Bhaskar, and RajendraNaikBhukya. "Crosstalk Noise Analysis in Coupled On-Chip Interconnects Using MRTD Technique." *Journal of Computational Electronics* – 2022
6. Sangeeta Singh, JVR Ravindra, B RajendraNaik. "Prediction of Intermittent Failure by Presage Debacle Model in Network on Chip." *International Journal of Engineering and Technology*-2022
7. Chatamoni, Anil Kumar, RajendraNaikBhukya. "Lightweight Compressive Sensing for Joint Compression and Encryption of Sensor Data." *International Journal of Engineering and Technology*-2022
8. Gugulothu, Bhaskar, and RajendraNaikBhukya. "Transient Analysis of Crosstalk Noise Effects in SWCNT Bundle On-Chip Interconnects Using MRTD Technique." *ECS Journal of Solid State Science and Technology*
9. R Mudavath, BR Naik, JP Raj - ECS Journal of Solid State Science and Technology, 2021, "Evaluation and reduction of signal integrity issues in multiwalled carbon nanotube on-chip VLSI interconnects".*ECS Journal of Solid State Science and Technology*-2021
10. Chatamoni, Anil Kumar, Rajendra Naik Bhukya, and Praneet Raj Jeripotula. "A Novel Approach based on Compressive Sensing and Fractional Wavelet Transform for Secure Image Transmission." *International Journal of Intelligent Engineering and Systems*
11. MK Joseph, BR Naik."Performance Analysis Of Digital Image Steganographic Techniques For Robust Image Transmission Over Wireless Channel For Reliable Communication"-*Design Engineering*, 2021
12. Mudavath, Raju, 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*

Dr. D. RAMA KRISHNA

1. Kunooru Bharath, Srujana V Nandigama, Rama K Dasari, and Vijay M. Pandharipande, "High Performance Millimeter Wave SIW Slotted

- Array Antenna," *Progress In Electromagnetics Research C*, Vol. 125, 15-23, 2022.
2. Ravi Gugulothu, Sangam Bhalke, Lalkishore K & Ramakrishna Dasari (2022) Electromagnetic Simulation and Realization of MCM GaAs MMICs Based Packaging for High Gain (40 dB) and High-Power (33dBm) Transmitter Applications, *IETE Journal of Research*, DOI: 10.1080/03772063.2022.2103038.
 3. Gugulothu, R., Bhalke, S., Lalkishore, K. et al. Package Modeling and Characterization of C-Band 10-Watt High-Power Amplifier Monolithic Microwave Integrated Circuit used in High-Reliability Applications. *J. Inst. Eng. India Ser. B* (2022). <https://doi.org/10.1007/s40031-022-00769-9>.
 4. Ravi Gugulothu, Sangam Bhalke, Lalkishore K & Ramakrishna Dasari (2022) Design, Analysis and Validation of MCP Package for GaAs Monolithic Microwave Integrated Circuits Packaging, *IETE Journal of Research*, DOI: 10.1080/03772063.2022.2038704.
 5. Kunooru Bharath, SrujanaVahini N, Rama Krishna Dasari, Mahesh Pandurang Abegaonkar, and Vijay M. Pandharipande, "Millimeter Wave Switched Beam Rectangular Loop Dipole Antenna Array Using a 4×4 Butler Matrix," *Progress In Electromagnetics Research C*, Vol. 117, 251-260, 2021.

Prof.P Naveen Kumar

1. Sony .D, Reddy D.K, Kumar PN "Implementaion of receiver Integrity algorithm for fault detection of IRNSS", *Aerospace Systems*, Volume 5, Issue 4, 2022.
2. Tunguturi Sridher, Achanta Dattatreya Sarma, **Perumalla Naveen Kumar**, and Kuruva Lakshmanna "Distributed RSS-Based 2D Source Localization System in Extended Indoor Environment" *Progress In Electromagnetics Research C*, Vol. 120,159-177, 2022.
3. T Sridher, Dattatreya S Achanta and **Naveen Kumar P** "Performance Evaluation of Onboard Wi-Fi Module Antennas in terms of Orientation and Position for IoT Applications". *International Journal of Engineering*, Volume 35, Issue 10, October 2022.

Dr. A. Bharathi

1. A. Bharathi & Ravi Shankar Reddy Gosula, "A Novel Compact Multiband Reconfigurable WLAN MIMO Antenna, *IETE Journal of Research*, 20 Jan 2021. DOI: 10.1080/03772063.2020.1869598.
2. A. Bharathi & G. Ravi Shankar Reddy, "A Right Hand Circularly Polarized DualBand Microstrip Antenna Array", *IETE Journal of Research*, 21 Jan 2021. DOI:10.1080/03772063.2020.1871426.
3. M. Srilatha, and A. Bharathi, "Low Access Latency and high throughput for Full Duplex Cognitive Radio Using Mobility Coaching Placement Strategy", *Advances in Technology Innovation*, March 2022, Vol 7, Issue 2, pp.143-154, doi: 10.46604/aiti.2022.8504.
4. Anantha Bharathi, Ravishankar Reddy Gosula, "Compact Single Feed Dual Band Microstrip Patch Antenna with Adjustable Dual Circular Polarization",

Dr.R.Sandhya

1. Doudu Vamshi Krishna and Dr. Sandhya Rachamalla “Inset-fed Cantor set Fractal Multiband antenna design”, IJLTES, Vol 12 Issue 4, August, 2021, pp 1-7, ISSN 2321- 0605, IF 5.095
2. S V Madhu Sudhan Reddy and Dr. Sandhya Rachamalla, “RF amplifier for 5G applications”, IJLTES, Vol 13, Issue 1, October 2021, pp 1-7, ISSN 2321- 0605, IF 5.095
3. P.Varun Kumar Reddy and Dr.R.Sandhya, “Design and Analysis of Insetcut Feed & Aperture Coupled Feed Microstrip Patch Antenna”, IJRTI, Volume 7, Issue 8, ISSN 2456-3315, August 2022, pp 395-403, IF 8.14
4. Rekha.Gudepu and Dr. Sandhya Rachamalla, “Aperture-Fed Microstrip Antenna with Wideband and Improved Radiation Patterns”, IJRTI, Volume 7, Issue 9, ISSN 2456-3315, September 2022, pp 138-142, IF 8.14

Dr.M.Shyamsunder

1. Metuku Shyamsunder, Bhartipudi Sahishnavi, D. Lakshmi Prachothn, Sneha Nomula “ Parking Slot Booking System With Driver Authentication And Accident Mitigation”, Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 6, June 2021: 1411-1421
2. 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
3. M.Shyamsunder, Sambaraju Bhavani , Mohammed Mujtaba, Mikkili Keerthana,” SMART BILLING TROLLEY” International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 07 | July 2021

Mr.Misbahuddin

1. Md.Misbahuddin, Belen Septian, Fardhan Akran, “Freertos Based Air Quality Monitoring System Using Secure Internet Of Things”, Jurnal Teknik Informatika (JUTIF), DOI: https://doi.org/10.20884/1_jutif.2022.3.1.172, February 2022.
2. Md.Misbahuddin, Subodh Panda, D. Nagesh Deevi And Srinivas Akul, “Model Designing of DC Motor Instant Stopping For Robotic and Automation”,Advances and Applications in Mathematical Sciences, Mili Publications, September 2021

9. List of Publications in International Conference by Faculty:

Prof.B. RajendraNaik

1. A. Laxman, N. S. S. Reddy and B. R. Naik, "Area and Power Efficient Design of Novel Karatsuba Double MAC (K-DMAC)", *2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA)*, Coimbatore, India, 2022, pp. 103-108, doi: 10.1109/ICIRCA54612.2022.9985758.
2. M. Naaz, K. Fatima and B. R. Naik, "A Survey Paper on Capacitor Less Low Dropout Regulator," *2022 International Conference on Electrical, Computer and Energy Technologies (ICECET)*, Prague, Czech Republic, 2022, pp. 1-6, doi: 10.1109/ICECET55527.2022.9872998.
3. R. Reddy L and R. N. Bhukya, "A Comprehensive Survey on mm Wave Systems with Beamforming Effects in Antenna for 5G Applications," *2022 6th International Conference on Trends in Electronics and Informatics (ICOEI)*, Tirunelveli, India, 2022, pp. 504-509, doi: 10.1109/ICOEI53556.2022.9777176.
4. A. H. Kumar and B. R. Naik, "The Performance Analysis and comparison of Machine Learning Classifiers and Neural Network on Crop Recommendation," *2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)*, Coimbatore, India, 2022, pp. 811-815, doi: 10.1109/ICACCS54159.2022.9785065.
5. B. Gugulothu and B. R. Naik, "Analysis of Signal Integrity in Coupled MWCNT and Comparison with Copper Interconnects," *2022 International Conference for Advancement in Technology (ICONAT)*, Goa, India, 2022, pp. 1-5, doi: 10.1109/ICONAT53423.2022.9726011.

Dr. D. RAMA KRISHNA

1. Raghunathraju Dasharatha,Vamshi Sai Yele,Srujana Vahini N, B. Kunooru and D. Ramakrishna, "Millimeter Wave SIW Fed Linearly Tapered Slot Filtenna for 5G Applications,"*MAPCON-2022*(Accepted and Presented).
2. Vamshi Sai Yele, Raghunathraju Dasharatha,Srujana Vahini N, B. Kunooru and D. Ramakrishna, "A Series Fed Antenna Array at X-Band for Monopulse Operation,"*MAPCON-2022*(Accepted and Presented).
3. Akhila Munnaluru, Srujana Vahini N, B. Kunooru and D. Ramakrishna, "A 2x4 Microstrip Antenna Array for Monopulse Tracking Radar at S-Band,"*MAPCON-2022*(Accepted and Presented).
4. A. N. Reddy, D. Ramakrishna and M. Z. A. Khan, "Low Complexity, Fast Computation of Nash Equilibrium in Cognitive Radios," 2022 4th IEEE Middle East and North Africa COMMUNICATIONS Conference

- (MENACOMM), Amman, Jordan, 2022, pp. 185-190, doi: 10.1109/MENACOMM57252.2022.9998188.
5. Rajyalakshmi G, Ravikumar Y, Ramakrishna D and Sambasiva Rao K "Design of Polarization-Insensitive Quad-band Metamaterial Absorber for RCS reduction," INDICON-2022(Accepted and presented).
 6. Srujana Vahini Nandigama, Konda Manisha, M.Muthukumar and Ramakrishna Dasari "A Cavity Backed Printed Blade Antenna for S-Band 5G Access Points," INDICON-2022(Accepted and presented).
 7. Sujay Kumar Khatri, Maniratnam Naik Badavath, Srujana Vahini Nandigama, Bharath Kunooru and Ramakrishna Dasari "Design of miniaturized Planar inverted F Antenna," IEEE UkrMW-2022(Accepted and presented).
 8. Alladi Narayana Swami, Srujana Vahini N, Bharath K, D Ramakrishna and Maniratnam B "Mutual Coupling Reduction Between Ultra Wide Band Antennas for Millimeter Wave Applications," IEEE UkrMW-2022(Accepted and Presented).
 9. B. Kunooru, S. V. N and D. Ramakrishna, "Dual Polarized Cassegrain Reflector Antenna for W-band Applications," *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, Jaipur, Rajasthan, India, 2021, pp. 786-789, doi: 10.1109/InCAP52216.2021.9726288..
 10. [C3]. B. Kunooru, S. V. N and D. Ramakrishna, "Mutual Coupling Reduction Between Microstrip Antennas at mm Wave Frequencies Using SIW Technology," *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, Jaipur, Rajasthan, India, 2021, pp. 1002-1004, doi: 10.1109/InCAP52216.2021.9726315.
 11. [C2].S. V. Nandigama, B. K and D. R. Krishna, "Gain Enhancement of an Aperture Coupled Antenna using Metasurface at mm wave Frequency," *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, 2021, pp. 295-298, doi: 10.1109/InCAP52216.2021.9726303.
 12. [C1]. P. Shravya, A. K. Singh, R. K. Dasari and S. K. Koul, "Design of Ultrathin Metasurface Lens for Gain Enhancement of Microstrip Patch Antenna," *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, 2021, pp. 883-886, doi: 10.1109/InCAP52216.2021.9726401.

Prof.P Naveen Kumar

1. R. Anil Kumar, **P. Naveen Kumar**, "Improvement of IRNSS Position Accuracy using SNR and Doppler", 43rd World Conference on Applied Science, Engineering and Technology, 29 & 30 December-2022, Goa, India.

Dr.A.Bharathi

1. A Wideband Circularly Polarized Endfire Microstrip Antenna”, IEEE International Conference INDICON 2021, 19-21 Dec 2021, IIT Guwahati, India.---Best Paper Award
2. Rashmitha Karre, A. Bharathi, “Coaxial line Fed Dual Band Circular Polarization Rectangular Patch Antenna Using Dual Coupled Lines”, Wireless Antenna and Microwave Symposium (WAMS 2022), organized by NIT Rourkela, Odisha, India during 5-8 June 2022.
3. Nidhi Madhuri, A.Bharathi, “X Band Miniaturized 90° Hybrid Coupler”, Wireless Antenna and Microwave Symposium (WAMS 2022), organized by NIT Rourkela, Odisha, India during 5-8 June 2022.
4. 4. “HIGH GAIN TOP LOADED HELICAL ANTENNA” Accepted and presented in INDICON 2022 IEEE 19th India Council International Conference, scheduled, during Nov 24-26, 2022 at Cochin, Kerala, India.
5. Nellikanti Vamshi Krishna, Bharathi Anantha, Samba Siva Rao K, D R Jahagirdar, “Metamaterial - Based Mushroom Array Antenna With complementary split ring resonator”, Accepted and presented in Microwave, Antennas, and Propagation Conference (MAPCON 2022) scheduled, during Dec 12-15, 2022 at Leela Bhartiya City, Bangalore, India.
6. Akhila Kalla, M. Shyam Sunder, Bharathi Anantha, M Swetha, D R Jahagirdar, “Design of a Monopulse Antenna using SIW Technology and Slot Arrays”, Accepted and presented in Microwave, Antennas, and Propagation Conference (MAPCON 2022) scheduled, during Dec 12-15, 2022 at Leela Bhartiya City, Bangalore, India.
7. Harshitha Modugumudi, M. Shyam Sunder, Bharathi Anantha, M Swetha, D R Jahagirdar, “Design of Monopulse Comparator Network Using Gap Waveguide Technology at W-Band”, Accepted and presented in Microwave, Antennas, and Propagation Conference (MAPCON 2022) scheduled, during Dec 12-15, 2022 at Leela Bhartiya City, Bangalore, India. Research
8. Delivered a talk on “Etiquettes for Professionals” for the Online Faculty Induction Programme Organized by UGC-HRDC Osmania University from (02.12.2022 to 31.12.2022) at Academic Staff College , HRDC, Osmania university.

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

**Mr.Misbahuddin**

1. Md.Misbahuddin, Belen Septian, Irwan, “Accuracy Improvement of Low-Cost GPS Receivers using Decision Tree Algorithms”, 2022 IEEE 8th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA), 26-28 September 2022, Melaka, Malaysia.

10. List of Publications in National Conference by Faculty:**Prof.P.Naveen Kumar**

1. Kavitha Devireddy, **Naveen Kumar P**, “Comparison between NavIC-TEC measurements and the NeQuick model results over Hyderabad Station”, 21st **National Space Science Symposium 2022**, January 31 - February 4, 2022, Indian Institute of Science Education and Research Kolkata, India.

11. 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.Chandranth, “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

12. Guest Lecturers, Key Note Lectures delivered, and Session Chair by Faculty in other institutes, industry, platforms:**Prof.L.Nirmala Devi**

1. 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. Prof.P.NaveenKumar, has delivered an Invited Talk on "INDIA'S SPACE PROGRAM" for "International Senior Colonel Equivalent Officers (Senior Military Officials of Different Countries)"@ College of Defence Management, in Higher Defence Management Course .
2. Prof.P.NaveenKumar has delivered a key note address during two day's National workshop on "INDIAN GPS-NavIC and its Future Applications" Jointly organized by Department of Geoinformatics, south campus and Communication Engg, UCE, Osmania University on 22-23 April,2022.

Dr.M.Shyamsunder

1. Delivered a Guest lecture for two sessions on “Pythron 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.
2. Delivered a Talk in webinar on the topic “Real Time Embedded systems” Sagar Institute of Science and Technology, Bhopa on 13th Aug 2021
3. 2. Delivered a Talk in webinar on the topic “ Embedded systems Development and Its applications” in Rabindranath Tagore University, Madhya Pradesh, Bhopal on 5th Feb 2022:

13. Workshops / Seminars / Trainings / Courses attended by Faculty or students (both offline, online) :**Dr.M.Shyamsunder**

1. 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.
2. 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.

Mr.Misbahuddin

1. Short Term Course on “Python Programming for Artificial Intelligence” conducted by Department of CSE, NIT Warangal from 26-09-2022 to 30-09-2022.
2. One Week FDP on “AI & ML using Python” from 13-12-2021 to 18-12-2021 organized by E & ICT Academy, NIT Warangal at Department of ECE, UCE (A), Osmania University, Hyderabad.

14. 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

15. 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

16. 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.

17. Memberships of Faculty Members

Prof. B. Rajendra Naik	IEEE Senior Memer
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,

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))	University Level College Level
6.	Prof P .Kotilakshmi	Time Table In charge Addl. Chief warden,Girls Hostel and mess, uce, ou	College Level College Level
7.	Mrs.P.Padma	Convener of PTPG admission	Department Level
8.	Dr.M.Shyamsunder	General warden, Swarnamukhi Hostel	College 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	College Level College Level

S.No.	Faculty Name	Designation, Office Address	Department/ College/ University Level, Outside
		forms UG, Joint Director (UG), Exam Cell, UCE, OU	

18. Other Information:

1. Prof. P. Chandra Sekhar serving as Chair, IEEE CAS/EDS Joint Chapter, IEEE Hyderabad section for the year 2020.
2. Prof. P. Chandra Sekhar appointed as Director of Evaluation, Exam Cell, OU 29th July 2020.
3. Prof.P.Naveen Kumar was appointed as Regional Coordinator for conduct of TS EAMCET 2022, conducted by Telangana State Council for Higher Education (TSCHE).
4. Prof.P.NaveenKumar was appointed as Regional Coordinator for Telangana State Level Common Recruitment Test 2022, conducted by TS Police Recruitment Board, for selection of SIs and Police constables, in TS.
5. Prof.P.NaveenKumar, as Director (Infrastructure) and his team has implemented Osmania University official website in Multilingual website and OU website was made available for accessing its information in 28 different languages.
6. Prof.P.Naveen Kumar, as Director (Infrastructure), at University level, was instrumental in replacement of age old 330 Wirebased technology telephones with new Wireless telephones, on approval of Honorable Vice Chancellor, OU.
7. Prof.P.Naveen Kumar is nominated as Member of the IQAC, at the University level.
8. Prof.P.Naveen Kumar, was invited by of Defense Management, for an Interaction meeting with Squadron Leader Shri.Rakesh Sarma (India's 1st man in to Space) on various issues related to Space Technologies and its Challenges.





9. Prof.P.Naveen Kumar was appointed as Vice - Chairman and Chairman (R&D) for The Institution of Electronics and Telecommunication Engineers (IETE), Hyderabad Section
10. The final year students of Dept of ECE, UCE, OU have visited Centre for Materials for Electronics Technology (C-MET),MietY, Govt.of India, Hyderabad, which was coordinated by Prof.Naveenkumar.



11. Prof.P.Naveen Kumar, as Convener, Organized two day's National workshop on "INDIAN GPS-NavIC and its Future Applications", Jointly organized by Department of Geoinformatics, Telangana University and Dept of ECE, UCE ,OU.



19. MoU with Department

1. The Dept.of ECE, UCE, OU has aigned an MoU with Center for Materials for Electronics Technology (C-MET), MeitY, Govt.of India, for a period of 3 years (2022-2025), based on the approval of Executive Council,OU.The Nodal Officer for this MoU is Prof.P.NaveenKumar.



20. Future interests of the Department are as follows

- Strengthening Advanced GNSS, 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

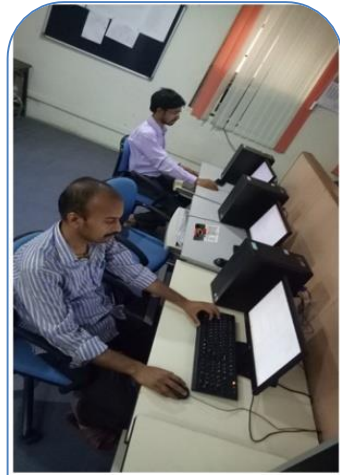
Advanced GNSS Research Laboratory (AGRL)



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 BIOMEDICAL ENGINEERING



DEPARTMENT OF BIOMEDICAL ENGINEERING

Fax & Phone No: 8331040962

<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. The department has started admitting Bi.P.C. (Intermediate) students with an intake of 10 into BE (BME) from the year 2022. The student intake is enhanced to 30 from 10 due to enormous response.

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.

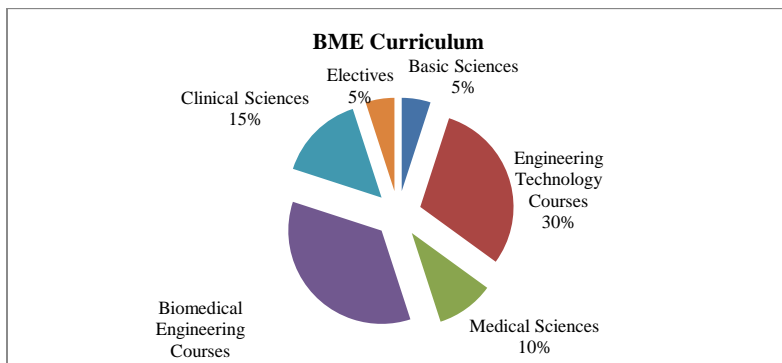
Faculty details:

Name and Designation		Areas of Specialization
	Dr. M.Malini, Ph.D., MIE., MISTE, LMISOI, MBMESI Professor & Head of Department	Biomedical Signal Processing, Embedded Medical Instrumentation, Biomechanics.
	Dr. D.Suman, Ph.D MIACSIT, MBMESI Associate Professor & Chairperson BOS(OU)	Biomedical Instrumentation, Biomedical Signal Processing, Internet of Things based Medical Applications
	Dr. M.Srinivas M.E.(Ph.D) Assistant Professor	BioMedical Equipment, Instrumentation, Hospital Administration & Management
	Dr. G.Shravya M.S, Ph.D (IIT BHU) Assistant Professor & Chairperson BOS(A).	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 (Ph.D)	Biomedical Instrumentation, Biomedical Signal Processing
	Mr. Kiran Kore M.Tech, (Ph.D)	Biomedical Instrumentation, Laser applications in medicine
	Dr. K Harish, Ph.D MIEEE, LMBMESI, LMIAENG	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, Medicit, NIMS, Yashoda hospital, Vasan Eye care, Oxygen hospital, rainbow children's hospital, Innova hospitals, Galaxy hospital etc.
Public Sector in India	HSCC, NIMHANS, HILL, DEBEL, ESI Govt. Hospitals, etc.
Knowledge Process Outsourcing based companies & IPR related field	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.	Prof. M. Malani	DST-NIDHI PRAYAS	2024	2025	Rehabilitation Device For Eye Movement Recovery	10
2.	Dr. D.Suman	DST-SERB-TARE	2023	2026	Design and development of a Radio frequency generator for hyperthermia therapy to treat cancerous cells by using biocompatible nano-ferrites	18.30
3.	Dr. D.Suman	DST-SERB	2022	2025	Smart shoes-An advanced aid for the Freezing of gait for the PD patients	17.97
4.	Dr. D.Suman	TSCOST	2022	2023	A study of Sub thalamic Local Field Potentials of Parkinson's patients under Deep Brain	4.0



S.No.	Name of Principal Investigator	Funding Agency	From	To	Title of the Project	Grant (Rs. in Lakhs)
					Stimulation therapy for finding the potential biomarkers	
5.	Mr. M. Venkateswara Rao & Mr. M.Srinivas	DST-PURSE	2017	2020	Gait Analysis in Parkinson's disease	15.00
6.	Dr. M.Malini	DST-PURSE	2017	2020	Analysis of Fetal Heart rate variability	4.0
7.	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
8.	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
9.	Prof. M. Malini	MRP, UGC	2016	2020	Wireless Data Acquisition system for vital sign monitoring	2.64
10.	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
11.	Mr. K.E.Ch. Vidyasagar	MRP, UGC	2016	2020	Design and Development of automatic epilepsy detection and classification system	3.8
12.	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
13.	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.M. Venkateswara Rao	BIG (DBT) Grant March, 2019 - October,2020	Design and Development of sickle cell disorder detector	4.62
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 Mar, 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	UG – EDC lab,	50	-	

	Lab	UG – EC lab, UG – DE lab			
5	MES Lab	UG – MES lab, PG – ES lab	-	30 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

S.No.	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	Suman, D. . , Raja, V. S. ., & Mutta, V.	Radio Frequency (RF) Mediated Hyperthermia of Nickel Ferrites-A Potential Application of Cancer Therapy.	International Journal of Health Technology and Innovation, https://doi.org/10.60142/ijhti.v3i01.07	3(01); 40–43; 2024	
2	Narmada Vallakeerthi, A. Sanjeev, D. Suman , A. Ravinder Nath , P. Muralidhar Reddy	RP-HPLC Method Development, Validation Including Stability Indicating and Forced Degradation Studies for the Estimation of Pemetrexed in API and Pharmaceutical Dosage Form	Journal of Physics: Conference Series	2603 012055; 1-15; 2023	
3	Dr.K.E.Ch.Vidyasagar K Revanth Kumar, G.N.K. Anantha Sai, Munagala Ruchita and Manob Jyoti Saikia	Signal to Image Conversion and Convolutional Neural Networks for Physiological Signal Processing: A Review	IEEE Access	10.1109/ACCESS.2024.3399114	
4	K.E.Ch.Vidyasagar and Dinesh Kalyanasundaram	Enhanced corrosion resistance of CoCrMo by laser-based surface modification	Surface Engineering	DOI: 10.1177/02670844231214689	
5	Jyothirmai Joshi, Dr. M Malini , Dr M Raghava	Retinal disease prediction using leaky rectified Linear unit based gated recurrent unit model	Journal of Theoretical and Applied Information Technology(JATIT)(e-ISSN : 1817-3195)	Volume 102 Issue 4, PP 1341, 2024	



S.No .	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
6	Jyothirmai Joshi, Dr. M Malini, Dr M Raghava	An OCTA - Advancements in Retinal Microvascular Imaging: A Comprehensive Review of Diagnostic Applications	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE). (eISSN NO: 2278-8875)	Volume 13 Issue 1, PP 51, 2024	
7	Jyothirmai Joshi, Dr. M Malini, Dr M Raghava	An Efficient Tournament Based Levy Flight Multiverse Optimization for Feature Selection Using Optical Coherence Tomography.	International Journal of Intelligent Engineering & Systems (IJIES) (ISSN: 2185-310X)	Volume 16 Issue 6, PP 298, 2023	
8	Gundu, S., Sahi, A.,Kumari, P.,Tekam C. K., Allu, I.	In vivo characterization of a luffa-based composite scaffold for subcutaneous implantation in rats	Journal of Biomaterials Science, Polymer Edition (IF-3.6).	https://doi.org/10.1080/09205063.2024.2363080 .	
9	Sahi, A., Gundu, S., Kumari, P., Klepka, T., &Sionkowska, A.	Silk-Based Biomaterials for Designing Bioinspired Microarchitecture for Various Biomedical Applications.	Biomimetics(IF – 4.5).	8(1), 55 (2023).	
10	Ishita Allu, Ajay Kumar Sahi, Pooja Kumari, Karunya Sakhile, Alina Sionkowska, Shravanya Gundu	A Brief Review on Cerium Oxide (CeO ₂ NPs)-Based Scaffolds: Recent Advances in Wound Healing Applications	Micromachines 2023 , 14, 865	https://doi.org/10.3390/mi14040865 Impact Factor- 3.523	
11	Shravanya Gundu,	Assessment of various forms of	International Journal of	Elsevier	



S.No .	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
	Ajay Kumar Sahi, Pooja Kumari, Niraj K. Vishwakarma, Sanjeev Kumar Mahto	cellulose-based <i>Luffa cylindrica</i> (mat, flakes and powder) reinforced polydimethylsiloxane composites for oil sorption and organic solvents absorption	Biological Macromolecules 240 (2023) 124416		
12	Ajay Kumar Sahi, Shravanya Gundu , Pooja Kumari, Tomasz Klepka and Alina Sionkowska,	Silk-Based Biomaterials for Designing Bio inspired Micro architecture for Various Biomedical Applications	Journal of Biomimetics 2023, 8, 55	https://doi.org/ 10.3390/biomimetics8 010055.	
13	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)	
14	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)	
15	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)	
16	K.E.Ch.Vidyasagar ,	Improvement of deep groove ball	Journal of Bionic Engineering	Volume 18	





S.No .	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
	Pandey RK, Kalyanasundaram D	bearing's performance using a bionic textured inner race		Page:974-990 (IF: 2.682)	
17	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)	SCI, Scopus , Web of Science, Google Scholar
18	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)	
19	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)	
20	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.	
21	Shravanya Gundu , Ajay Kumar Sahi, Neelima Varshney, Johny 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):	
22	Madhusudhanan, J.,	Role of nanomaterials with special	International Journal of	6(S3), 7210–7227,	



S.No .	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
	Gundu, S., Kavitha, K., Abirami, D., Manickam, R., & Ahamed, N. M. I.	reference to pharmaceutical technology.	Health Sciences	https://doi.org/10.53730/ijhs.v6nS3.7736 . (2022)	
23	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	
24	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	
25	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
26	Rinki Kumari, Anjali Verma, Disha Sharma, Sudhanshu Mishra, Ajay Kumar Sahi, Shravanya Gundu , Nanki Singh, Jasmeet Singh, Simon Agongo Azure, Anita	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	



S.No .	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
	Venaik				
27	Ajay Kumar Sahi, Neelima Varshney, Suruchi Poddar, Shravanya Gundu , Sanjeev Kumar Mahto	Fabrication and Characterization of Silk Fibroin- Based Nanofibrous Scaffolds Supplemented with Gelatin for Corneal Tissue Engineering	Journal of Cells Tissues Organs	DOI: 10.1159/000515946, July 2021.	
28	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	
29	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)	
30	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)	
31	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	
32	Dabbu Suman , Ram Reddy B, Bhanu Prasad Marri	Cardio respiratory coupling: A potential biomarker for the early detection of respiratory distress in	International Journal of Scientific & Engineering Research	Volume 12, Issue 12, December-2021.	



S.No.	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed
		COVID-19 affected patients			
33	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)	
34	Ram, A.V., Kuchulakanti, H. , Raj, T.S.	Brain Tumor Detection and Classification Using Transfer Learning Technique.	Computational Vision and Bio-Inspired Computing. Advances in Intelligent Systems and Computing, vol 1420. Springer, Singapore.	https://doi.org/10.1007/978-981-16-9573-5_36 (2022)	

11. List of Publications in International Conference by Faculty:

S.No.	Faculty Name	Paper Title	Conference Name and address	Volume No. & Year, Date
1	K.E.Ch Vidyasagar, Ganji N V Shiva Prasad , Mekala Srimanth Raj, Saniya Mahreen and Manob Jyoti Saikia	Gaze Tracking Control System for Wheelchair and Smart Home Automation	IEEE 19th International Conference on Body Sensor Networks (BSN)	DOI: 10.1109/BSN58485.2023 9-11 Oct. 2023
2	Dr. M. Malini, A. Ushasri	Algorithm for Extraction of Time domain and linear Features of FHRV	Advanced Engineering Optimization through Intelligent Techniques,	Lecture notes in Mechanical Engg., Springer





3	Srinivas. M, Krupa Rani G, Dr. Anthony Vipin Das, D. Suman	Design and development of a Pupilometer for the automatic detection of Relative Afferent Pupillary Defect	Eur. Chem. Bull.	2023, 12(Special Issue 4), 13086-13101.
4	Mrs. B. Gayathri	Review of Egg and Speech processing techniques for glottal activity detection	Seventh International Joint Colloquiums on Computer Electronics Electrical Mechanical and Civil CEMC 2022	29-30 October 2022, Mumbai India.
5	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
6	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
7	A. Ushasri, Dr. M. Malini, P. Apurvasri	Digitization and Analysis of Cardiotocography Records	IEEE HYDCON	2020

List of Books/chapters/Proceedings Published by Faculty during 2019-2024 (5 years)

S.No.	Faculty Name	Title of book or chapter	Publisher Name	Year
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				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 WaktolaGamessa, Dabbu Suman, ZerihunKetemaTadesse.	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 SaiLalitha, M Venkateswara Rao,Dr M Malini ,MounicaSravani,	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 SaiLalitha, M Venkateswara Rao,Dr. M Malini ,	Review on Regulation of Heat Shock Protein 70 During Radiotherapy in Cancer Patients	Learning and Analytics in Intelligent Systems, Vol 16, S Jyothi et al (Eds): Advances in Computational and Bio-Engineering, 978-3-030-46942-9, 491311_1_En, (21)	2020
6	Dhananjay Budaraju, M. Srinivas, D. Suman,M. Malini	Fractal Dimension of Fundoscopical 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	2020



			series (LAIS, volume 3) pp 1-9,DOI:10.1007/978-3-030-24322-7_11	
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. K. E. Ch. Vidyasagar	Expert lecture on Introduction to Biotribology	SERB sponsored High-End Workshop (Karyashala) on Mechanics and Materials for Biomedical applications, NIT Raipur	30 April to 6 May, 2024
2	Dr. K. E. Ch. Vidyasagar	Expert lecture on Robotics in Material Processing	SERB sponsored High-End Workshop (Karyashala) on Mechanics and Materials for Biomedical applications, NIT Raipur	30 April to 6 May, 2024
3	Dr. K. E. Ch. Vidyasagar	Training Programmes on Management of Biomedical Waste as per Bio-Medical Management Rules, 2016	Engineering Staff College of India (ESCI)	16-17 January 2024



4	Prof. M. Malini	Recent trends in Medical Instrumentation	Refresher Course in Biomedical Engineering conducted at NEHU, Shillong 1-15 March 2023.	9 th March 2023
5	Dr. D. Suman	Wavelet transform and its application in medicine	Refresher Course in Biomedical Engineering conducted at NEHU, Shillong during 1-15 March 2023.	9 th March 2023
6	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
7	Dr. D. Suman	Nuclear Magnetic Resonance and its applications	Institute of Genetics, Osmania University, Begumpet	31/12/2021, & 4/1/2022.
8	Prof. M. Malini	Latest trends in Healthcare technologies	IEEE SPS Summer School on Internet of Things for Biomedical and Healthcare Applications organized by VNR VJIET	28th December 2020
9	Dr. D. Suman	Telemedicine in Healthcare	Department of BME, KarpagaVinayaga College of Engineering and Technology	21 st December, 2020
10	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
11	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	Dr. K.E.CH.	Short-term Course on Telemedicine	Online North-Eastern Hill	4/3/2024 to	UGC-Human





S.No	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
	Vidyasagar	and Digital Health	University, Shillong.	9/3/2024	Resource Development Centre, NEHU
2	Dr. K. Harish	Short-term Course on Telemedicine and Digital Health	Online North-Eastern Hill University, Shillong.	4/3/2024 to 9/3/2024	UGC-Human Resource Development Centre, NEHU
3	Dr. K. Harish	Two-day National seminar on Quality Assurance and faculty preparation for NAAC Accreditation of Osmania University	IQAC, OU	27-28 February, 2024	
4	Ms. B. Gayathri	NPTEL FDP on Digital Image Processing, 12 weeks course	Online course organised by IIT Madras	July - October 2023	
5	Ms. B. Gayathri	FDP on "Emerging Trends in Biomedical Engineering Research for Healthcare 4.0	Sri Sivasubramaniya Nadar College of Engineering Chennai	March 27-29, 2023	
6	Dr. K.E.CH. Vidyasagar	Panel member for the Model Exhibition competition at Startup Ideation Program in NSD 2023	Department of Microbiology, UCSOU	2-3 March, 2023	
7	Dr. K. Harish	One Week Faculty Development Programme on "AI for Multimedia Processing and Security	Department of Computer Science and Engineering, National Institute of Technology Patna	18-22 February 2023	ISEA project, Phase-II, MeitY, Government of India



S.No	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
8	BE III 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, India	October 14 - October 16, 2022	
9	Ms. G. Shravanya	Workshop on 3D Printing and 3D Bio-Printing	NIPER Hyderabad and Avay Bioscience	23 rd and 24 th September, 2021	
10	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.	
11	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	
12	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	
13	Ms. G. Shravanya	One week faculty program on <i>Recent Trends On Smart Materials And Their</i>	Vardaman College of Engineering, Hyderabad	Feb 7 th to 11 th , 2022	



S.No	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
		<i>Applications</i>			
14	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	
15	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	
16	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	
17	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
18	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.	
19	Dr. M. Malini	Indian Medical Electronics Industry - Challenges and way forward	Online	4th Feb, 2021	
20	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



S.No	Faculty Name Or student details	Title	Venue	Dates	Sponsored by
					(ATAL) Academy online
21	Dr. D. Suman	Advanced Optimization techniques and hands-on with MATLAB/SCILAB	Electronics and ICT academics	13-24 July, 2020.	
22	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.

Patent details during 2017-2024:

S. No.	Patents of the department	Year
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1	"Gaze Tracking Control System for Wheelchair and Smart Home Automation" DR. K.E.Ch. Vidyasagar, Dr. M. Srinivas, Prof. M. Malini, Mr. Srimanth, Mr. Mahesh, Mr. Rehmathullah	Published in 2024
2	Mahto, S.K., Gundu S, Sahi, A. K., Kumari P, "Luffa-PDMS-based Composite Scaffold and a Method of Preparation Thereof" [Application ID: 202311017933]	Application filed on March 16, 2023
3	"Mobile Controlled multi drug infusion system" By Mr. K.E.Ch. Vidyasagar, & Dr. Sudesh Sivarasu, Patent No.: 304847 for 20 years.	Granted in 2018
4	"Mobile Controlled multi drug delivery system" By Mr. K.E.Ch. Vidyasagar, & Dr. Sudesh Sivarasu, Patent No.: 288750 for 20 years.	Granted in 2017

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

- ✓ Two days Hands-on workshop on “BIOMATERIALS AND FABRICATION TECHNIQUES” 1st - 2nd March, 2024 organised by BMESI OUCE in collaboration with IEEE EMBS chapter, Coordinator-Dr. G. Shravanya.
- ✓ Workshop on Save a Life, Speaker C. Jacob Vijay Kumar, President, Rahtriya Life saving society, Telangana on 26 February 2024 organised by BMESI OUCE in collaboration with IEEE EMBS chapter.
- ✓ Lecture on C-Tunes by Dr. Dinesh Bhatia, Assoc. Prof. and Head, Dept. of BME, North Eastern Hill University on 02-02-2024.
- ✓ Online workshop on "Opensim" by Dr. Arnab Sikidar, Sr. Project Scientist, mPRAGATI, IIT Delhi on 5th November, 2023 organised by BMESI OUCE in collaboration with IEEE EMBS chapter.
- ✓ Talk on "Label-free and Non-destructive Optical imaging Techniques for Biomedical applications" by Dr. Tanveer Ahmed Shaik, Friedrich Schiller University in Jena, Germany on 1st November, 2023 organised by BMESI OUCE in collaboration with IEEE EMBS chapter.
- ✓ Online interaction session with Mr. Balu T, Patent Examiner & Design, Chennai, Mr. Aditya Venkateshwara, Patent examiner and design, Indian Patent Office, Chennai and Ms. Sravanthi, Patent Examiner & Design, Chennai on 16-08-2023.
- ✓ 5 Invited talks and 22 research papers were successfully presented in BME track as part of the **International Conference on Emerging Trends in Engineering (ICETE)**, 2023 organised by the Seven departments of University College of Engineering (A), in association with Alumni assoc., UCEOU during 28-30 April, 2023.
- ✓ Two Days workshop on **Tumor Detection using Machine Learning Algorithms** is organised in the department as part of Meditech, 2023 during 24-25 April, 2023. Speaker of the event is Dr. Ayan Debnath, Senior Data scientist at Bosch Global Software Technologies.
- ✓ National level Technical Symposium **Meditech 2023** was successfully organised in the department. The chief guest of the inaugural was Dr. Konda Vishweswar Reddy Entrepreneur, Biomedical Engineer, and renowned Politician.

- ✓ A National Seminar is organised on “**Emerging Trends in Medical Device Regulations-2023**” (ETMDR-23) in collaboration with HCDC, OU on 25th Feb, 2023, Sponsored by DST-TSCOST under National Science Day celebrations NSD-2023. Coordinator- Dr. D. Suman.
- ✓ **Hands on training of Medical Equipment workshop** is organised on 04th Mar, 2023, Sponsored by DST-TSCOST under National Science Day celebrations NSD-2023. Coordinator-Mr. M. Srinivas.
- ✓ **Hands on Workshop on IOT in Healthcare** is organised in the department during 8-9 Dec, 2022. Coordinator - Dr. KECH Vidyasagar.
- ✓ 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.

Placement Information

Academic Year	Number graduated	Number of students placed on-campus	Number of students placed off-campus	Number of students joined higher studies
2022-23	30	20	6	4

➤ Student placement or Higher studies information:

S. No.	Company/institute	No.of.students placed
1	edtronics India	3
2	e Signs	9
3	gnizant	5
4	hnsitu biotechnologies	3
5	tTech Patent Arts Pvt Ltd	2
6	mineni Hospitals	4
7	t Hyderabad-CFHE fellowship	1
8	t-Madras	1
9	S (USA)	2

Student Achievements(2020-24)

S.No.	Student Name	Details of Award/sports/ Higher Studies / Off Campus Jobs /GRE/CAT/GATE Score	Month/Year
1	Abhiram	38 th rank in GATE BME	2024
2	Rehmathullah	53 rd rank in GATE BME	2024
3	K. Jashwanth	169 th rank in GATE BME	2024
4	Karthik	14 th rank in GATE BME	2023
5	G.Shiva prasad	50 th rank in GATE BME	2023
6	M.Lavanya	54 th rank in GATE BME	2023
7	Sri Medha	65 th rank in GATE BME	2023
8	Jashwanth	96 th rank in GATE BME	2023
9	Sai ishitha	101 st rank in GATE BME	2023
10	Srivoju vaishnavi	226 th rank in GATE BME	2023
11	Sreeja	26 th rank in GATE BME	2022
12	Sai teja	34 th rank in GATE BME	2022
13	Harshiniyuktha,	50 th rank in GATE, BME	2021
14	Kezia Pearl	64 th rank in GATE, BME	2021
15	Chiatanyavardhini	275 th rank in GATE, BME	2021

- ✓ BE VI Sem Students Ruchitha, Anatha Sai, Revanth published an International Journal Paper Signal to Image Conversion and Convolutional Neural Networks for Physiological Signal Processing: A Review in IEEE Access.
- ✓ BE VI Sem Students Ruchitha, Anatha Sai and Chandana participated in 5 day workshop on **Applied Data Science for Healthcare** organised by Department of CSE, IIIT, Nagpur during 29th May - 2nd June, 2023.
- ✓ BE VI Sem Student Divya participated as a part of Telangana senior girls team in 2nd Nationals floor curling championship 2023 held in Arunachal Pradesh and won Silver medal.
- ✓ Four BE VIII Semester students Mr. Nagaraju, Mr. Rajesh, Ms. Vaishnavi, Ms. Tharuni selected for Internship in **KIMS hospital** with a package of 25,000/- followed by Job opportunity.

- ✓ Ms. Dharani of BE VIII semester is selected as Intern in **AIG hospitals** with package of 25,000/- followed by Job opportunity.
- ✓ BE VIII Semester student Ms. Sharmila Chowdary selected for Project internship in DEBEL, Bangalore and she also secured 94 percentile in CAT.
- ✓ BE VIII Semester student Manaswini selected for internship in DRDO, Delhi.
- ✓ BE IV Semester student Ms. Saniya Mahreen won prize in **Essay writing** and **Elocution** by Honourable Governor of Telangana State Dr. Tamasai Sowdaranjan in Raj bhavan in State level competition held as part of creating awareness on **India's Presidency of G20** on 10th Jan, 2023.
- ✓ BE IV Semester student Ms. Saneya Rafeeqe Siddiqui won **I prize** in Model Exhibition competition at **Startup Ideation** Program in NSD 2023 during 2-3 March, 2023 organised by Department of Microbiology, UCSOU.
- ✓ BE IV Semester student Ms. Saniya Mahreen won **II prize** in Model Exhibition competition at Startup Ideation Program in NSD 2023 during 2-3 March, 2023 organised by Department of Microbiology, UCSOU.
- ✓ BE IV Semester student Mr. Karthik Barupatla secured **1st place** in debate competition held in EEE dept UCEOU on the occasion of "National Mathematics Day" on 1st March 2023.
- ✓ 5 BE student teams presented 5 models in Daksha 2k23, A National level Techno-Cultural Symposium organised by Anurag University on 9th & 10th March, 2023 guided by Dr. K.E.Ch. Vidyasagar and 3 models secured prizes:
1.M Ruchita(3rd Yr) and V. Abhiram(3rd yr) secured the first prize for their model in the AI & ML dept

2. Anantha Sai (3rd Yr) and Revanth Kumar (3rd Yr) secured the first prize for their model in the CSE dept
 3. M. Srimanth (3rd Yr) and Saneya Siddiqui (2nd Yr) secured the second prize for their model in the ECE dept.
 4. Mr. Rehmatullah, Mr. Ch. Rethik, Mr. M. Ramakrishna, Ms. K. Meghana, Ms. Saneya Siddiqui are other participants
- ✓ BE IV Semester student Ms. Saneya Rafeeqe Siddiqui won **II prize** in Essay writing competition on **The Constitution safeguard for the Tribals** in Sri Sri Sri Santh Sevalal Maharaj 284th Jayanthi Celebrations organised by the Director, SC/ST Cell in collaboration with BC Cell, Minorities Cell & BR Ambedkar research Centre, OU.
 - ✓ Third year student V. Abhiram is selected in Student Exchange Programme by Shibaura Institute of Technology, Tokyo, Japan during 9 - 15 February 2023.
 - ✓ 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.
 - ✓ 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.
 - ✓ Third-year students **K. Revanth, Anantha Sai, M. Ruchita, T Jaswanth, and Abhiram** attended the 2nd Indo-Norway Workshop on Smart Sensing, Communication and Machine Learning for Autonomous and Cyber-Physical Systems (IN-SSCOM-22) workshop organized by

the University of Agder, Norway, and Indian Institute of Technology Hyderabad, India, between October 14 - October 16, 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.
- ✓ BE VI Semester students visited Skanray Technologies, Mysore from 16th - 21st July 2022 under an industrial tour, Skanray houses medical device manufacturing.
- ✓ BE II and IV Semester students visited Med Avio Polymers, Cherlapally, Hyderabad on 16th July 2022 under an industrial trip. It houses the Manufacturing of medical disposable products and the Operation of CNC and injection moulding machines.

LIBRARY FACILITIES

The Department Seminar Library has the following:

S.No	Details	Quantity
1	Text Books	3151
2	Ph.D. Thesis	08
3	ME Project reports	125
4	B.E Project reports	540
5	IAP Reports	120
6	Lecture Notes	15

1. 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



AIMED Ventilator



InTuVision Ophthalmoscope



3D Printer



Electronics Engineering Lab



Computer Programming Lab



Electronics Engineering Lab



Audiometer



Operational Microscope



X-Ray unit for Demonstration



Biodigital Microscope



Electroporesis unit



OU Taksh



Training Workshop



Hands on Training Sessions



Project Demonstrations



Project Demonstrations



Industrial Tour

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Tel.: 8331997306

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. P.V.Sudha M.Tech, PhD	Cloud Computing, Large Scale ML, Software Project Management
Professor		
	Prof. K.Shyamala M.Tech, Ph.D.	Parallel Processing Applications, Cyber Security, Wireless Sensor Networks Embedded Systems, CAD algorithms, Technology Mapping algorithms for FPGAs
Associate Professors		
	Dr.M.Venkat Dass M.Tech.	System Software, Discrete Mathematics
	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
	Dr. M.A.Hameed M.Tech, Ph.D	Data Mining, Soft Computation, Big Data, Machine Learning, Data Science



Faculty		Specialization
	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

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. Srinivas Rao 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	Operating Systems, Embedded Systems, Data



M.Tech	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

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

Prof. K.Shyamala	I/c Dean, Faculty of Engineering and Faculty of Informatics, OU Director, Centre for Cyber Security and Cyber Law, OU
Prof. P.V.Sudha	Head, Dept. of CSE, UCE(A), OU, Director, CoE, AIML, OU
Dr.M.Venkat Dass	Chairperson, BOS in CSE(U)
Dr.L.K.Suresh Kumar	Chairperson, BOS in IT, OU
Dr.V.B.Narasimha	Joint Director for PGRRCDE,OU
Dr.B.Sujatha	Hostel Mess Warden, University Girls Hostel, OU



S.No.	Faculty Name	Designation, Office Address	Department/ College/University Level, Outside
1.	Prof. K.Shyamala	I/c Dean, Faculty of Engineering and Faculty of Informatics, OU 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 CSE(U)	College Level
4.	Dr.L.K.Suresh Kumar	Chairperson, BOS in IT, OU	College Level
5.	Mr.S.Srinivasa Rao	Chairperson, BoS in CSE(A), OU	College 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

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	HP Proliant	1	Centos 6.9 / Oracle



S.No.	Configuration	Make / Model	Qty.	Operating System /Application Software
	x 2 Processor, 16GB RAM, 4x300GB 6G SAS HDD, SMART ARRAY with 1GB	DL380 GEN8		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	7633
2.	Ph.D. Thesis	19
3.	M. E. Project Reports	200
4.	B. E. Project Reports	125
5.	Journals	200

Placements:

S. No.	Name of Companies visited	Package offered(LPA)	No. of BE Students Placed
1	Pal Tech	6 lakhs	3
2	Accenture	4.6 lakhs	2
3	Deloitte Consulting India Pvt. Ltd.	7.6 lakhs	3
4	Eastman	5 lakhs	5
5	Digitalinterakt	7 lakhs	5
6	OSI Digital Pvt Ltd	5 lakhs	3
7	Opt Culture	7 lakhs	1
8	Darwinbox Digital Solutions	16.3 lakhs	2
9	Magnaquest	5 lakhs	1
10	Zessta	5 lakhs	1
11	omnicloudconsulting.com	5 lakhs	5
12	ABB	8.5 lakhs	2
13	Unistring Tech Solutions.	5 lakhs	1
14	Movidu	7 lakhs	2



15	K&S Partners Intellectual Property Attorneys	6 lakhs	1
16	Tejas Network Ltd	10 lakhs	2
17	ctrlS	4 lakhs	3
18	Unistring Tech Solutions	5 lakhs	1
19	icsglobal	6.25 lakhs	3
20	DeltaX	7 lakhs	1
21	Hackett	10 lakhs	1

Placements Statistics for the Year 2023-24

S. No.	Branch	Total Strength	Not Placed	% Student Placed	Single Jobs	Two Jobs	Three Jobs	Four Jobs	Internship	Overall Offers	Avg CTC
1	BE/CSE	87	31	63.0	50	4	1	8	28	55	614900

Job Type Placements Statistics for the Year 2023-24

S. No.	Branch	Total Strength	% Student Placed	Single Jobs	Single Job Software	Single Job Software %	Overall Offer Received
1	BE/CSE	87	63.0	50	35	70.00 %	55



Student Achievements

Hall Ticket Number	Name	Exam Qualified	Marks/ Score
1005-20-733005	ANUMALLA AKHILA	M.Tech.(CSE) IIITH, Hyderabad	
1005-20-733047	RITVIK REDDY ALETI	TOEFL iBT	103/120
1005-20-733091	MADHAGOUNI VARUN TEJA GOUD	IELTS	8.0
		GRE	318
1005-20-733006	B VAMSHA VARDHAN REDDY	Research Associate , IIITH	
1005-20-733085	BOLISHETTY BHAVANA	IELTS	6.5
100520733048	MATUR SRINJA	IELTS	7.5
		GRE	301

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 2023-2024:

Faculty	S.No.	Paper Published	Date & Year of Publish
Prof.P.V.Sudha	1	“Radial Basis Function Neural Network Based Seed Selection”. Taylor and Francis Series, DAPCom 2024, International Conference on Data Acquisition Processing and Communication,	February 2024
	2	“Hybrid Optimization enabled deep learning for sentiment rating prediction towards text summarization and question answering system” in international journal in Ad Hoc and Ubiquitous Computing, Vol.44, No.4	2023
Prof.K.Shyamala	1	Deep Learning based Super-Resolution for Accurate COVID – 19 diagnosis in chest CT Images “ International Conferences on Smart Systems fir Applications in Electrical Sciences”	2023
	2	Testbed Implementation of MAX LEACH Routing Protocol and Sinkhole Attack in WSN “ Proceedings of third international conferences on advanced in Computer Engineering and Communication System (ICACECS)	2023
	3	Secure EELB-AOMDV Protocol to Mitigate Blackhole Attack 9 th International Conference on Advanced Computing and Communication System (ICACCS System	2023
Dr.L.K.Suresh Kumar	1	“Moving Object Detection using Modified GMM based background subtraction”	Dec, 2023
	2	“ A model for Multi-attack classification to improve intrusion detection performance using deep learning approaches”	Dec, 2023
	3	“ An effective deep learning based Multi-Class classification of DOS and DDOS attack detection	2023
Dr.B.Sujatha	1	Effective Fake News Classification Based on Lightweight RNN with NLP, “Annals of Data Science”	2024



	2	Principle correlated feature extraction using differential evolution for improved classification “AIP Publishing”	2024
	3	A Hybrid Multi-Client Filter Based Feature Clustering and Privacy Preserving Classification Framework on High Dimensional Databases “Intelligent Systems And Applications In Engineering “	2023
	4	A hybrid elliptic curve cryptography (HECC) technique for fast encryption of data for public cloud security	2023
	5	Feature max conditional entropy perturbation model Feature Extraction and Independent Subset Generation Using Genetic Algorithm for Improved Classification “International Journal of Intelligent Systems And Applications In Engineering”	2023
	6	An efficient database privacy-preserving method using the “Organization development journal”	2023
Dr.M.A.Hameed	1	Brain Tumor MRI Images Identification and Classification based on the recurrent conventional neural networks, www.sciencedirect.com/journal/ measurements - sensor	2023
	2	Brian Tumor Segmentation of MR Images using SVM and Fuzzy Classifier in Machine Learning, www.sciencedirect.com/journal/ measurements - sensor	2023
	3	COVID-19 detection and classification for Machine Learning methods using human genomic data, www.sciencedirect.com/journal/ measurements - sensor	2023
	4	Developing Heart Stock prediction model using Deep Learning with Combinational of Fixed Row Initial Centroid methods with Navie Bayes Decision Tree and Artificial Neural Networks	2023
	5	Deep Learning Prediction Model for Predicting Heart Stock using the combination of sequential row methods integrate with Artificial Neural Networks	2023
Mrs.V.Sukanya	1	Cat and Mouse Based Task Optimization Model for Optimized Data Collection in Smart Agriculture “ International Journal on Recent and Innovation Trends in Computing and Communication”	2023





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:

S.No	Name.	Event	Conducted by	Date
1	Dr.B.Sujatha	Short term course: Artificial Intelligence Machine Learning and Deep Learning Applications	the Computer Science and Engineering Osmania University, Hyderabad in association with CCE, NIT Warangal	27-12- 2022 to 31-12- 2022.
		FDP: 5 day Online FDP on “AI ML and DL	organized by the department of CSE in association with the center for training and learning NIT, Warangal	2 nd to 6 th of Oct, 2023
		Conference: Smart Traffic: Real-time Tracking, Vehicle Detection, and Congestion Alert System in the 7th International Conference on Innovative Computing and Communication (ICICC- 2024)	organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with the National Institute of Technology Patna, India and the University of Valladolid, Spain	16 th & 17 th February 2024.
2	Mrs.V.Sukanya	Publishing in Top Journals : Addressing the Theory and Method Issues	Organized by University of Hyderabad, School of Management Studies	19 th July, 2024

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.

12.Invited Lectures :

S.No	Name of the Faculty	Invited Lectures	Date
1	Prof.P.V.Sudha	Faculty Induction Programme on Topic “Applications of AI & ML” at UGC-MMTTC	23-07-2024
		“Emergence of AI and Data Science in Multi-Disciplinary Domain” at National-level one –week Faculty Development Program on”Multi-Disciplinary Research Trends in Artificial intelligence and Data Science”	01-02-2024
		Expert member for Evaluation of “ Paper Presentations” at the 5 th Digital Citizen summit 2023. The theme of the Summit was “ Commoning the internet for a vibrant Democracy”. The International Summit will was held at T-Hub, Hyderabad	2,3, 4 th November 2024
2	Dr.L.K.Suresh Kumar	Guest Talk – “Network Security” – Matrusri Engineering College	3 rd August 2023
		Guest Talk – “Selection of Research Problems and Paper Writing” – Stanley College of Engg. and Tech. for Women	10 th November 2023
		Key Note Address - “AI Innovations: Navigating the Future Technology”	18 th to 20 th April 2024
		Key Note Address – “ The AI Frontier : Trends Transforming our World	19 th April 2024

13. Books:**Prof.P.V.Sudha**

- 1) Big Data Analytics “ Distance Education, PGRRCDE” Editor
- 2) Software Engineering “Distance Education, PGRRCDE” Editor

Dr.L.K.Suresh Kumar

- 1) “Computer Networks “ Distance Education,PGRRCDE,Sem-III,Paper-II,Editor,2023
- 2) “Data Communication and Computer Networks”, Distance Education, PGRRCDE,Author

14.Honors and Awards:



Dr.L.K.Suresh Kumar

- 1) Jyesta Acharya Award:** Recognizing Exemplary Contribution of Research and Education Sector by Bharat Education Excellence Awards Brain O Vision.

Future Plans:

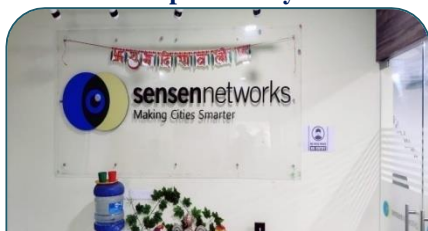
1. Establishment of Specialized Labs for Cyber Security and Privacy.
2. To start PG Diploma in Data Science through Online Course through Center for Distance Education, Osmania University.



Dept. Library



Cricket Champion Winning



Industrial Visit to Sensai Networks



Taksh Programme Presentation



Flag Hosting





MINING ENGINEERING

University College of Engineering (A) Phone No.: 8331997304

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 requested the authorities 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, restarted the Department of Mining Engineering with an intake of 66 BE Mining Engineering students under self-finance mode established as per the approval letter of the Registrar, OU to Secretary, Higher Education, TS, 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 66 along with one ME program with an intake of 18 students in Mining Engineering specialization in Regular and CEEP (Continuing Engineering Education Programmes) mode are running.

Faculty Details

The Department of Mining Engineering is being headed by Prof. P. Chandra Sekhar and Faculty members are Dr. K Srinivas, Dr K V Shankar, Mr. M Satish Kumar, Mr. E Srinivas, Mr K Abhiram, Dr. B. Prasad, and Mr. N S R Krishna Prasad.

Dr. K Srinivas, Dr. K V Shankar, are the Chair-Professors, sponsored by CIL and SCCL respectively. Mr. M. Satish Kumar, Mr. E. Srinivas and Mr. K Abhiram are Mining Executives at the M/s SCCL, and currently extending their support to the Department of Mining Engineering as Professor of Practice under Industry-Academia collaboration in the Department of Mining Engineering. Dr. B. Prasad and Dr. NSRK Prasad are the Adjunct Faculty in the Department of Mining Engineering.

Faculty member		Areas of Teaching and Research
Head of Mining Engineering Department		
	Prof. P. Chandra Sekhar PDF (Shizuoka University, Japan) Ph.D (Osmania University) (PRINCIPAL, UCE, OU)	Digital Systems & Computer Electronics, Digital & Analog VLSI
Chair Professors (Alumni-Academia collaboration in Mining Engineering)		
	Prof. K. Srinivas (Retd Professor, Department of Mining Engineering, College of Engineering Guindy, Anna University, Chennai)	Drilling and Blasting, Mine Environment Engineering, Mine Legislation, Mining Machinery
	Prof. K. V. Shankar (Retd Professor, Department of Mining Engineering, College of Engineering Guindy, Anna University, Chennai)	Rock Mechanics and Ground Control, Numerical Modelling, and Subsidence Prediction.
Professor of Practice (Industry-Academia collaboration in Mining Engineering)		
	Mr. M. Satish Kumar (Addl. Manager, M/s SCCL) Professor of Practice B. Tech Mining/KU, M.Tech Mining/VNIT (PhD-NITK)	Mine Planning & Designing, Rock Slope Engineering, Slope Stability & Monitoring, Slope Stabilization, and Rock Mechanics.
	Mr. E. Srinivas (Addl. Manager, M/s SCCL) Professor of Practice B. Tech Mining/KU M.E Mining/OU	Rock mechanics, Underground mining methods, Mine Legislation on Safety, Mine Rescue and Recovery operations, Mine Surveying, Slope stability, Mine Planning & Design.
Lecturer (Industry-Academia collaboration in Mining Engineering)		

	Mr. K. Abhiram (Sr. Under Manager, M/s SCCI Lecturer B. Tech Mining/KU M.Tech Mining/IIT(BHU) Varanasi.	Drilling & Blasting, Rock Mechanics, Mine Planning & Design, Development of Mineral Deposits.
<i>Adjunct Faculty (Alumni-Academia collaboration in Mining Engineering)</i>		
	Dr. B. Prasad Retd GM CMPDI (CIL) Ph.D (USSR) Adjunct Faculty	Coal Mining Technologies: Surface Mining, Underground Mining, particularly, Longwall Mining, Thick Seam Mining, Mine Subsidence, Mine Planning & Designing etc.
	Dr. N. S. R. Krishna Prasad Director of Mines Safety (Retd)., BE/OU, ME/U, Adjunct Faculty	Mine Management, Legislation & General Safety, Mineral Processing, Exploration.

Publications - Mr. M. Sathish Kumar:

International/National Journals:

1) Sathish Kumar Mittapally & Ram Chandar Karra (2023), "Functions and performance of sensors for slope monitoring in opencast coal mines – laboratory experimentation", Petroleum Science and Technology. (SCI - Q3 Journal). DoI: <https://doi.org/10.1080/10916466.2023.2175858>.

2) Kumar, M. S., & Chandar, K.R (2023) 'Development of an Alert System in Slope Monitoring using Wireless Sensor Networks and Cloud Computing Technique – A Laboratory Experimentation', International Journal of Mining and Mineral Engineering, Vol. 14 (2), 205-221. (SCI - Q3 Journal). DoI: <https://doi.org/10.1504/IJMME.2023.133652>.

3) Kumar, M. S., & Karra, R. C. (2023). Applications of Wireless Sensor Network for Displacement Monitoring in Opencast Coal Mine Slopes. Journal of Mines, Metals and Fuels, 71(9), 1346–1358. (Scopus). DoI: <https://doi.org/10.18311/jmmf/2023/32032>.

4) Sathish Kumar Mittapally, M Shyam Sunder & Ram Chandar Karra (2023). Cloud Computing- Based Advanced Slope Monitoring System for Opencast Coal Mines. Easy Chair Preprint, No.9716, Pp:1-11.

Link: <https://easychair.org/publications/preprint/65zfc>.

5) Mittapally, S. K., & Marichamy, R. K. (2023, November). "Wireless Sensor Networks and Real-Time Slope Monitoring: A Brief Review". Advances in Engineering Research. In Second International

Conference on Emerging Trends in Engineering (ICETE 2023) (pp. 1307-1317). Atlantis Press. DoI: <https://doi.org/10.2991/978-94-6463-252-1131>.

6) Sathish Kumar M and Ram Chandar Karra, “Applications of IoT in Slope Monitoring in Opencast Mines – A Critical Review” Journal of Mines, Metals and Fuels, Vol. 70, No 12(A), Pp 47-58. May (2022). (Scopus Journal). DoI: <https://doi.org/10.18311/jmmf/2022/29942>.

7) M Sathish Kumar, Raj Kumar M, (2022), “Evaluation of Dump Slope Stability Using Slide, Geoslope, and Phase 2 software”, Journal of Machine and Computing, vol.2, no.1, pp. 033-041.

DoI: [10.53759/7669/jmc202202005](https://doi.org/10.53759/7669/jmc202202005).

8) Sathish Kumar M, Saithanuj S, Karthik G, Satyanarayana I, Md Jaffer and Bh Venkateshwara Rao (2022), “Analysis of pit slope stability by using Limit Equilibrium, Finite Element methods and Finite Difference methods” (2022), Journal of Mines, Metals and Fuels (Scopus), Informatics Journals, Vol. 70, No 12(A) and Pp 69-76.

DoI: <https://doi.org/10.18311/jmmf/2022/29942>.

9) Sathish Kumar M and Raj Kumar M (2022), “Factors Affecting Slope Stability: A Brief Review”, International Journal of Innovative Science and Research Technology, Vol 7, Issue 4, Pp 878-882, ISSN No: -2456-2165.

10) Harish Gupta, Neeraj Pant, Ravi Kumar Saini, Sathish Kumar M, M.S Venkata Ramayya and N.V.K Srinivas (2022), “Tracing Inrush Water Seepage Source using Hydrochemistry and Stable Isotopes: Preliminary Investigation of Adriyala Longwall Project of SCCL, India” (2022), Journal of Mines, Metals and Fuels (Scopus), Informatics Journals, Vol. 70, No 12(A) and Pp 95-100.

DoI: <https://doi.org/10.18311/jmmf/2022/29942>.

International Conferences/Seminars:

1) Sathish Kumar Mittapally & Ram Chandar Karra (2024), “IoT based Slope Monitoring Systems in Opencast Mines” International Conference on Mining for a Greener Future: Technological Developments and Sustainable Practices (ICMFGF-2024), NITK, Surathkal, Karnataka, 16-17, February, 2024, Pp-20.

2) Sathish Kumar Mittapally & Ravi Teja (2024), "Slope Monitoring Systems in Opencast Mines a Brief Review" International Conference on

Safe and Sustainable Mining Technologies (IConSSMT-2024), AKS University, Satna, Madhya Pradesh, 19-21, February, 2024.

3) Sathish Kumar Mittapally & Ram Chandar Karra (2023), “Real-time Slope Monitoring System based on Cloud Computing for Opencast Coal Mines.” Proceedings of 1st Srilankan Rock Mechanics and Engineering Society (SLRMES), Srilanka, 3-7, December, 2023, 55-56. (Sponsored by International Society for Rock Mechanics (ISRM)).

4) Sathish Kumar Mittapally, Shyam Sunder M, G Karthik, Ram Chandar Karra (2023), “Cloud Computing based advanced slope monitoring system for Opencast coal mines”, “International Conference on Emerging Technologies in Engineering”, ICETC, UCE OU, Hyderabad on 28th April 2023.

5) 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.

6) Sathish Kumar M, presented a paper on entitled “Analysis of Dump Slope Stability Using Slide and Geoslope” (2022), in “International Conference on Machines, Computing and Management Technologies ICMCMT 2022”, held in Coimbatore.

7) Sathish Kumar M and Karthik Guntha (2021), “Application of artificial intelligence to Mines: An overview”, Two-Day All India Seminar-Cum-Webinar on “Application of Artificial Intelligence in Mineral Industry”: 21-22, October 2021: Hyderabad, organised by Alumni of Mining Engineers Association (OU&KU) in association with Department of Mining Engineering, UCE, KU.

8) Sathish Kumar M, and Ravi Prasad. D (2020), “Project System (PS) Module in ERP-SAP – Implementation in SCCL” in One Day National Seminar on Information Technology in Mining and Way Forward organized by Singareni Collieries Company Limited, at Hotel Taj Krishna, Hyderabad, Telangana.

9) Sathish Kumar M, Thote N R and Laxminarayana P, “Stability of Overburden Dumps at SCCL- A Practical Experience” (2015), in Mining Engineers’ Association of India (MEAI) Journal, Vol.17, pp 18-24.

10) Sathish Kumar M, Thote N R and Laxminarayana P “Installation of High Capacity Belt Conveyor Systems for Transportation of Coal” (2014), in



National Seminar on Recent Trends in Mechanised Mines, Department of Mining Engineering, UCE, KU, Kothagudem, Telangana.

11) Sathish Kumar M, Veera Reddy B and Amarnath K J “In-situ stress and its impact on workings – a case studies from GDK 8A mine & Gate roadways Adriyala Longwall Project Mines of SCCL” (2014), in National Seminar on Recent Trends in Mechanised Mines, Department of Mining Engineering, UCE, KU, Kothagudem, Telangana.

12) Sathish Kumar M and Thote N R “Influence of Blast Operation on Dump Slope Stability” (2013), in National Seminar on Explosives & Blasting Techniques for Mining, Quarrying & Infrastructure Industry (EBTMQI), NIT Surathkal, India, pp-213-222.

Publications – Mr. Srinivas E:

1. Sathish Kumar Mittapally, E Srinivas, I Satyanarayana, Purushotham K, “Effect of Blast Vibrations on Dump Slope Stability in Opencast Coal Mines”, “International Conference on Emerging Technologies in Engineering”, ICETC, UCE OU, Hyderabad on 28th April 2023.

2. 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.

3. 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.

4. Delivered guest lecture on 11.03.2024 in the Supervisory Development Programme on Safety Management Plan, Role of Frontline supervisors in implementing the SMP at the Mines Safety & Productivity Association, Hydrabad region on the topic of Development and Implementation of Safety Management Plan.



Conferences / Workshops / Seminars / Trainings Organized by Faculty

Faculty Name	Title	Venue	Dates	Sponsored by
Sr.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
Sr. 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
Sr.Prof. Sriram Venkatesh, Dr. MS Venkataramayya Mr. M Sathish Kumar & Mr. E. Srinivas	Organized the Two Days International Conference on Emerging Trends in Engineering	Organized by AAUCE, OU & Dept. of Mining, UCE, OU.	29th & 30th April, 2022	SCCL, NTPC, Continental Coffee, DRDO etc
Sr.Prof. Sriram Venkatesh, Mr. M Sathish Kumar & Mr. E. Srinivas Dr. B Prasad Mr B Papa Rao	Organised one-day workshop on hands on practice for BE students and faculty on “ Study and Monitoring of blast induced vibrations in opencast mines ” by Uttam Blasttech Pvt. Ltd on 21 st September’23.	Organized by AMEA (OU) & Dept. of Mining, UCE, OU.	21st September 2023	AMEA (OU)

Dr. Bodapati Prasad, Adjunct Faculty

Publications:

(1) Special issue on "R&D in Coal Sector" in March 2012, CMPDIL, Ranchi

(2) A Handbook on “Highlights of Research Coal S&T Programme” in 2004, CMPDIL, Ranchi

(3) A KTripathi Ch. S N Murthy Mangalpady Aruna, B Prasad, “Quantitative Analysis of Photovoltaic Panel Performance in Mine Environment conditions”, Proceedings of International Conference on opencast Mining Technology & Sustainability, 14- 15th Dec 2018, NCL, Singrauli, PP. 221-224.



(4) A KTripathi Ch. S N Murthy, Mangalpady Aruna, B Prasad, “Experimental Investigation on Influence of humidity on PV performance Panel”, Proceedings of ICPET 2018, Jan 2019, Hyderabad.

Research Activities:

(1) Advisor to an S&T Project on "Ultrasonic washing for desulfurization of coal" being implemented by Indian Institute of Technology, Guwahati in association with Kuvempu University, Shimoga, Tumkur University, Tumkur, sanctioned by the Ministry of Coal in 2022.

(2) A Member in the Board of Studies (BoS) under the Department of Mechanical Engineering, JAIN University, Bengaluru.

Awards:

1) The achievements and efforts under the R&D lead to obtaining the “Scope Meritorious Award” under the Innovation Category for R&D, Technology Development & Innovation by CMPDIL, for the year 2009-10 from the then Hon’ble President of India Smt. Pratibha Patel.

2) Received Silver Medal in Nov 2001 for the R&D Efforts, from the then Cabinet Minister (Late) Shri Ajit Singh at IITF, Delhi.

3) 3rd Best Award for “Innovation under Technical Category” on the occasion of Coal India Foundation Day 05 Nov, 2014.

4) CMPDIL has been recognized as an “In-house R&D Unit” by the Department of Science and Industrial Research, Ministry of Science & Technology under the collective efforts of the Department.

Key - note address:

1. "Indian Mining Industry and Coal Research", International Symposium on Earth Resources, Management and Environment (ISERME-2018), Moratuwa University, Moratuwa, Sri Lanka, in 2018

Guest Lectures:

- (i) Hindalco Technical University Centers, in 2019
- (ii) JAIN University, Bengaluru, in 2022
- (iii) Indian Institute of Coal Management (IICM), Ranchi
- (iv) Staff Training College, CMPDI, Ranchi
- (v) R V College, Bengaluru.



Workshops / Seminars / Trainings / Courses attended by Faculty

Faculty Name	Title	Venue	Dates
Mr. M Sathish Kumar	Conference on "Iron& Steel and Coal-Emerging trends and Challenges	Hitex, Hyderabad.	15-16 January, 2023
	AKAM Lecture Series on "Role of Rock Engineering in Nation Building" hosted by the School of Technology, GITAM, Hyderabad is association with the National Institute of Rock Mechanics (NIRM), Bangalore (Ministry of Mines, Govt. of India)	School of Technology, GITAM, Hyderabad	18th July 2023.
Mr. E. Srinivas	Conference on "Iron& Steel and Coal-Emerging trends and Challenges	Hitex, Hyderabad.	15-16 January, 2023
	Online Short Term Course on MOOCS, E-Content Development, Online Pedagogy & Open Educational Resources organized by UGC-HRDC, Osmania University, Hyderabad, Telangana	Online	from 20-25 February, 2023
	AKAM Lecture Series on "Role of Rock Engineering in Nation Building" hosted by the School of Technology, GITAM, Hyderabad is association with the National Institute of Rock Mechanics (NIRM), Bangalore (Ministry of Mines, Govt. of India)	School of Technology, GITAM, Hyderabad	18th July 2023.

Guest Faculty

Sri P. Kondaiah, Retd. GM (SCCL)

Sri K Purushotham, Sr Lecturer, Govt Polytechnic, Kothagudem

Dr G Karthik, Associate Professor, Stanley College of Engineering for Women, Hyd

Dr P Rajashekar, Assistant Professor, MVSR Engineering College, Hyd

Mr G Janardhan, Assistant Professor, Malla Reddy Engineering College, Hyd

Mr K Manoj Kumar, Assistant Professor, Malla Reddy Engineering College, Hyd

Mr A Pullaiah, Secretary, SBTET, Hyderabad.

**Student Achievements and Higher Studies (2023-24)****GATE Rank**

1. Mr Maruthi, All India Rank: 410
2. K. Harish, All India Rank: 673
3. M Raj Kumar, All India Rank: 753
4. B Shiva Shankara Vara Prasad, All India Rank: 1375

PhD admissions

1. Mr Rajasekar Yadav admitted into PhD at IIT Kharagpur
2. Mr M Rakesh admitted into PhD at NIT Raipur

Joined in jobs at Coal India Limited

1. Mr Maruthi, joined as mine graduate trainee during Jan 2024
2. Miss Akhila Sahithi, joined as mine graduate trainee during Jan 2023
3. Mr Srikanth, joined as mine graduate trainee during Jan 2023
4. Mr Prashanth, joined as mine graduate trainee during Jan 2023
5. Mr Kranthi Kumar, joined as mine graduate trainee during Jan 2023

Joined in jobs at NTPC Limited

1. Mr Ajay, joined as mine graduate trainee during Jan 2023

Achievements / Events Organized by the Department

1. Conducted a Technical Session in 2nd International Conference on Emerging Trends in Engineering, April' 2023.
2. Conducted a Technical Session in 2nd International Symposium on Recent Challenges in Engineering, Dec'2023.
3. National Level Technical Symposium, IGNITE 2023.
4. National Level Technical Symposium, IGNITE 2024.
5. International Symposium on Recent Trends in Mineral Industry – 2022.

Institution and Industry Interaction

1. MoU between CIL- OU during March 2023
2. MoU between SCCL- OU during May 2023
3. MoU between NTPC- OU during May 2024



Training / Learning Activities of the Department

1. Classroom teaching
2. Laboratory demonstration
3. Field visits
4. Internships to industries
5. Summer camps
6. Survey camps

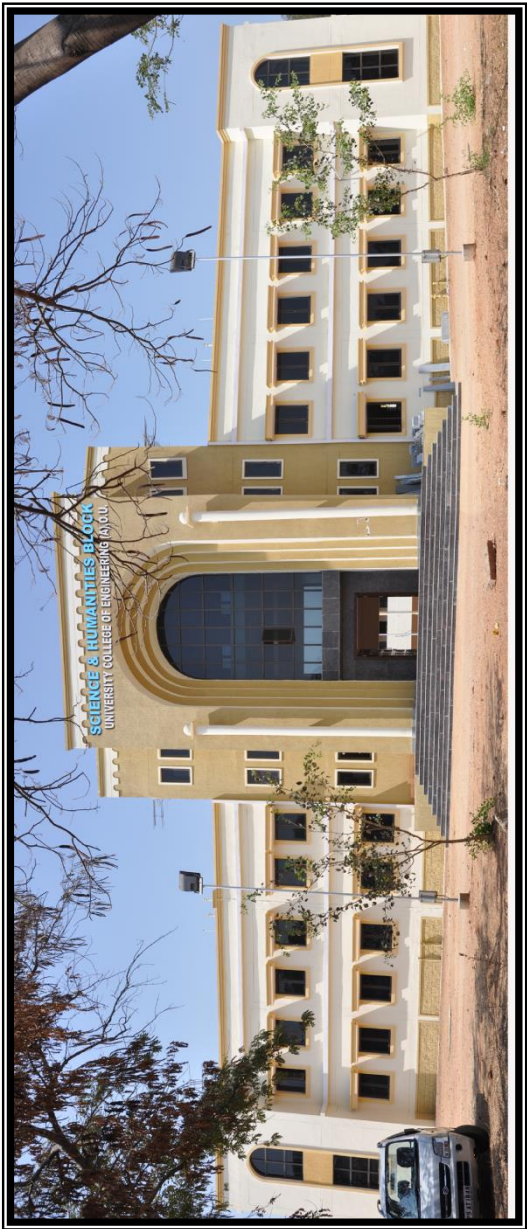
Future Plans of the Department

1. Becoming a premier choice for Industry and as well as Students for Mining Engineering Education/Training.
2. Moving into Permanent Mining Engineering Building.
3. Further strengthen the Industry-Alumni-Academia relation.

Some important photos of equipment, events, etc



HUMANITIES & SCIENCE BUILDING





Dr.K.RameshBabu
Head, Department of Mathematics



Dr. N.Narsimlu
Head, Department of Physics



Dr. P. Sarita Rajender, M.Sc., Ph.D.
Head, Department of Chemistry



Dr. Saveen Sauda
Head, Department of English

DEPARTMENT OF CHEMISTRY


Phone No.: 8331040961

Profile:

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

Faculty Details

Faculty	Areas of Teaching and Research	
	Dr. P. Sarita Rajender M.Sc., Ph.D Head & Asst. Professor	Spectroscopy, Polymer Chemistry, Natural products and Medicinal Chemistry
Assistant Professors (Contract)		
	Dr. V. Vani M.Sc., Ph.D.	Synthesis and applications of Nanoparticles
	Dr. G. Sujatha M.Sc., Ph.D.	Validation of drugs using UV-Visible spectrophotometry and docking studies

	Mrs. P. Reshma M.Sc., (Ph.D.)	Design & synthesis of novel heterocyclic compound & their biological Activity studies
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Research Activities:

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 40 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 four scholars have been awarded their Ph.D. under her supervision and two have to be awarded yet. She has six patents and two of them have been granted in the field of cancer and T. B.

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)
1	Chemistry Lab-I	B.E. I & II Semesters	15	--
2	Chemistry Lab-II	B.E. I & II Semesters	15	--

LIST OF MENTORS

VIII. Chemistry			
S.No.	Department	Mentors Name	Mobile No.
1.	B.E. 1 st Sem. (BME)	Dr. P. Sarita Rajender	9000282879
	B.E. 2 nd Sem. (AIML)	Dr. P. Sarita Rajender	9000282879
2.	B.E. 1 st Sem. (Civil)	Dr. V. Vani	7893855746
	B.E. 2 nd Sem. (CSE)	Dr. V. Vani	7893855746
3.	B.E. 1 st Sem. (Mechanical)	Dr. G. Sujatha	9490255819
	B.E. 2 nd Sem. (EEE)	Dr. G. Sujatha	9490255819
4.	B.E. 1 st Sem. (Mining)	Mrs. P. Reshma	9052499330
	B.E. 2 nd Sem. (ECE)	Mrs. P. Reshma	9052499330

List of Publications in International Journals by Faculty:

S. No	Faculty Name	Research Publications
1.	Dr. P. Sarita Rajender	<p>1. Patent 20244103666A: Publication date 17/05/2024 Title of the invention: Chiral Sulfonamide Based Ticagrelor Analogs as Egfr Inhibitors and Method Preparation . Dr.P.Sarita Rajender. Dr.M.Bhargavi. Priyanka devi. Dr.Chandraiah Goduru. Dr.Govardan Lanka Dr.Revanth Bathula Nakkala Sravanthi.</p> <p>2.Sravanthi Nakala, Revanth Bathula, Manan Bhargavi, Sarita Rajender Potlapally* Synthesis, Characterization, Molecular docking and biological evaluation of 1,4- Bis (aryl-1<i>H</i>-1,2,3-triazole-4-yl) methoxy benzaldehyde derivatives as potential anti-cancer agents. Asian Journal of Chemistry, Accepted, ISSN No. 0975-427X. Impact factor: 0.158.</p> <p>3. Sravanthi Nakkala, Manan Bhargavi, Revathi Pagadala, Sarita Rajender Potlapally*. Structure based virtual screening and comparative study with current cancer therapeutics to predict new lead molecules against CCNA1 protein. Journal of Xidian University. Volume 17, 3, (2023)340-353. ISSN No:1001-2400. Ugc Care.</p> <p>4.Sravanthi Nakkala, Goverdhan Lanka, Manan Bhargavi, Radhika Mone,Sarita Rajender Potlapally*. Insilico Docking Prediction of Leads in comparison with existingtherapeutics for STK32C Protein in Cancer therapy. Gradiva Review Journal. Volume 9, 2 (2023) 99-114. ISSN NO: 0363-8057.</p> <p>5.Sravanthi Nakkala, Chandrima Modak, RevanthBathula, Goverdhan Lanka, GururajSomadi, Sivan Sreekanth, Alok Jain, & Sarita Rajender Potlapally, "Identification of new anti-cancer agents against CENTERIN: Structure-Based Virtual Screening, AutoDock and Binding free energy studies",<i>Journal of Molecular Structure</i>, (2022) Accepted.<i>ISSN</i>. 00222860. Impact factor: 3.841.</p> <p>6. Goverdhan Lanka, Manan Bhargavi, Revanth Bathula, Sarita RajenderPotlapally, "Targeting tribbles homolog 3 (TRIB3) protein against type 2 diabetes for the identification of potential inhibitors by in silico screening,"<i>Journal of the Indian Chemical Society</i>, Vol. 99,7(2022)100531. ISSN 0019-4522. Impact Factor 0.28.</p> <p>7.M. Narasimha, D. Mahendar, B. Revanth, and P. Sarita Rajender., Tin (IV) Chloride catalyzed one-pot Synthesis and Docking studies of 4-aminoquinoline derivatives as Myt1 inhibitors, <i>Journal of Heterocyclic Chemistry</i>, Vol.59,8 (2022)1350-1356.ISSN-1943-5193. (Impact factor: 2.2).</p> <p>8.Bathula, R., Sivan, SK., Somadi, G., Lanka, G., Muddagoni, N., Rajender Potlapally, S.,"Structural insight into PRMT5 inhibitors through amalgamating pharmacophore-based</p>

S. No	Faculty Name	Research Publications
		virtual screening, ADME toxicity, and binding energy studies to identify new inhibitors by molecular docking,” <i>Structural Chemistry</i> , Vol.33,(2022)1223-1239. ISSN-1572-9001. (Impact factor: 1.88) 9.Bathula, R., Muddagoni, N., Dasari, M., Rajender Potlapally, S., “Design and synthesis of Novel pyrazole integrated 1,3,4-Oxadiazole derivatives as potential Cyclin-dependent kinase 2 inhibitors”, Russian Journal of Organic chemistry(2022). ISSN-1572-9001. (Impact factor: 1.88).
2.	Dr. V. Vani	1.Vani Vangari, P.Reshmareddy, .L.Nageshwarrao, Areef Mohammed, . U. Umesh Kumar & A. Panasa ReddyPublished: 06 April 2023Rapid green synthesis of palladium nanoparticles using grape seed extract for catalytic reduction of 4-nitrophenol and crystal violet 2.Microwave-assisted greensynthesis of silver nanoparticles using passion fruit peel extract for catalytic reduction of organicdyes.,2021Journal of Advanced Scientific Research, 12(04 Suppl 1), 250-256. https://doi.org/10.55218/JASR.s1202112428
3.	Dr. G. Sujatha	1.Structural insights and understanding drug interactions with human Cytochrome P450: CYP1A2, CYP2D6, CYP2C9, CYP2C19 and CYP3A4 by molecular docking approach. Sujatha Gujjula, P.Yadagiri Swamy Sambodhi 2020 Vol-43, No.-04 (IV). 2. Quantification of Drugs Using Spectroscopic Method by Oxidation with NBS and amaranth dye couple. Sujatha G, Yadagiri Swamy P Sambodhi 2021 Vol-44, No.-04.
4.	P.Reshma	1.VaniVangari, P.Reshmareddy, .L.Nageshwarrao, . Areef Mohammed, . U. Umesh Kumar & A. Panasa ReddyPublished: 06 April 2023Rapid green synthesis of palladium nanoparticles using grape seed extract for catalytic reduction of 4-nitrophenol and crystal violet.

List of Conference, Seminar and workshops attended by faculty:

S.No.	Faculty name	Conference, Seminar and workshop
1.	Dr. P. Sarita Rajender	Attended one day seminar on Organocatalysis: Prospects and Opportunities, 1 st July 2023, Organised by Department of Chemistry, University College of Science, Osmania University. Attended the Online Refresher course on “Drug Discovery and Novel Drug Development – Analytical Interpretation of Research Data”, conducted by UGC-HRDC, JNTU Hyderabad, Ministry of Human Resource Development, held



S.No.	Faculty name	Conference, Seminar and workshop
		<p>between 13-02-23 to 27-02-23.</p> <p>Attended Two-day national workshop on “Cyber Hygiene and Cyber Security-Formulas and Safe Future” organized by women study centre and women cell at Telangana mahilaViswavidhyalaya held between 19th and 20th October 2022.</p> <p>Atom based Pharmacophore modeling, 3D – QSAR, Docking studies and ADME prediction of Chalcones as tubulin inhibitors. Manan. Bharghavi, L. Govardhan, Revanth B, N. Shrivanti, P. Sarita Rajender. Participated in two day international seminar on “Current Trends and futurestic challenges in Chemical Sciences”, organized by Dept Of Chemistry, University College of Science, Osmania University, Hyderabad, between 29th – 30th of July 2022.</p>

Library Facility:




The Department Seminar Library has the following:

S.No.	Details	Quantity
1	Text Books	644

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
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 providesufficient 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.

Dr. K. RAMESH BABU

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

1. Participated as a Judge for Jignasa for assessing the students study Projects and Selection for the Academic year 2023-2024. It is a state level Programme organised by Commissionerate of collegiate Education, Govt.ofTelengana at GDC, Nampally, Hyderabad on 3rd April 2024.
2. Chaired in the international conference MSOES-2023, online Organised by Canadian University, Dubai, UAE in Association with NIT, Jalandhar, Punjab, India on June 17-18, 2023
3. Presented a Paper in the international conference MSOES-2023, online Organised by Canadian University, Dubai, UAE in Association with NIT, Jalandhar, Punjab, India on June 17-18, 2023
4. Participated as a Chief Guest in Avinya Science Expo -2024 Organized by Sri Vaishnavi Olympiad School, Varasiguda, and Hyderabad on 28th and 29th Feb 2024.

Awards won by the faculty:

Dr. K. Ramesh Babu received Srinivasa Ramanujan Excellency Award – 2023 on 22nd Dec 2023 on the Occasion of National Mathematics Day, Organized by Telengana Intellectuals Forum, Govt.ofTelengana, Hyderabad.

Selection Committee member

Selection Committee member, Megha Degree college for women (Affiliated to Osmania University), for the academic year 2023-2024, at ECIL X- Road, Hyderabad on 6th June 2023.

Publications:

1. Published “Effect of Chemically Reactive Nanofluid Flowing Across Horizontal Cylinder: Numerical Solution “ in Journal of Advanced Research in Numerical Heat Transfer 12, Issue 1 (2023) 1-17, ISSN: 2735-0142.
2. Published “MHD nanofluid flow towards a non-linearly stretching sheet with viscous dissipation and thermal radiation“ in AIP Conference Proceedings 2548, 020007 (2023) ,RESEARCH ARTICLE | JULY 17 2023 , 3rd International Conference on Manufacturing, Material Science and Engineering (ICMMSE 2021) AIP Conf. Proc. 2548, 020007-1–020007-8;
3. Published “ An Unsteady flow of fluid velocity, Temperature and heat emission on MHD free convection flow of some Nanofluids “ in” Advances in Mathematical Modeling and scientific computing “;International conference on recent developments in Mathematics , at Abudhabi (Springer) , 2023, vol 2 , ISSN 2297-0215.

Papers Communicated:

1. MHD Tangent Hyperbolic Fluid towards a stretching surface with slip condition (Web of science)

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 Nov 2023.

Ph. DPersuing

- On going student : 01
- Registered : 03

DEPARTMENT OF PHYSICS

Phone No. 8331040960






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 IICT, 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	Materials Today: Proceedings	2022	Scopus

S. No	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed (scopus, web of science)
		films			
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
	Dr.B.Ashok	Nanocomposite cotton gauze cloth with <i>in situ</i> generated silver, copper and their binary metal nanoparticles by	Inorganic and Nano-Metal Chemistry.	Jan, 2022 doi:10.1080/24701556.2021.2025096	Scopus



S. No	Faculty Name	Paper Title	Journal Name	Volume No. & Year, Date, ISSN No.	Indexed (scopus, web of science)
4		bio-reduction method			
		Modification of Waste Leather Trimming with in <i>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 in situ 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 & Francis group	2020

Library facility:

The Department Seminar Library has the following:

S.No	Details	Quantity
1	Text Books	360

DEPARTMENT OF ENGLISH

Phone: 8331040959

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
	Prof. Saveen Souda Head MA, PhD	Indian Writing in English, British and American Literature English Language Teaching (ELT)
	Prof. J. Savithri M.Sc (Psy)., MA., PhD., PGDELT	English Language Teaching (ELT) ESL Studies
	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

CENTRE FOR ENGLISH LANGUAGE TRAINING (CELT)

University College of Engineering, Osmania University
Hyderabad - 500 007, 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.

CELT has completed 402 batches so far and has conducted workshops for Management students of Shiva Shivani College of Management besides various Teachers' Training Program

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:

1. 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

2. 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)

3. 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

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

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)

- i) **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)

- **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

		<p>Prof. Saveen Souda, MA, PhD Director CELT & Head - Dept of English</p>
		<p>Dr. Lakshmi Mantha, M.A., Ph.D</p>
		<p>Ms. P. Suma Bindu, M.A. English</p>

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.



ICT UCE Football team



Athletes meet ICT OU December 2022

The College has a Basket Ball Court near the Hostels of the Sports Complex and Gymnasium Hall in the Main Building of the College. The Department selects players to represent the 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

Head, Dept. of Physical Education, UCE, OU and

Head, Dept. of Physical Education, Osmania University



PLACEMENT AND TRAINING OFFICE, OUCE

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Email id: ouce_placement@yahoo.com

























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. A. Krishnaiah
Director, CDAAC

DIAMOND JUBILEE LIBRARY, UCE

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

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	1. Prof. Narsimhulu Sanke
Joint Director of Evaluation (P.G)	2. Dr. P. Lokender Reddy
Joint Director of Evaluation (U.G)	3. Dr. M. Shyam Sunder

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
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
		Digital Systems	3 Years	1975	20
4	Electronics & Communication Engineering	Systems and Signal Processing	3 Years	1975	20
		Microwave & Radar Engg.	3 Years	1975	20
		VLSI & Embedded Systems	3 Years	2021	20
		Industrial Drives & Control	3 Years	1971	20
5	Electrical Engineering	Power Systems	3 Years	1971	20
		Power Electronic & System	3 Years	2021	20
		Production Engg.	3 Years	1994	20
6	Mechanical Engg.	Automation & Robotics	3 Years	1994	20
		Turbo Machinery	3 Years	1994	20
		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. P. Chandra Sekhar, 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)

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.Dscholars. 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> Sr. Prof.Sriram Venkatesh, Ph.D 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 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.Dr. E.Madhusudhan Raju, Ph.D 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	30-09-2021	Shri Navin Mittal, IAS Commissioner, Collegiate Education & Technical Education Director SPD, RUSA, Government of Telangana.
2	17-12-2021	Dr. U. Chandra Shekar Wipro 3D, Bangalore
3	30-12-2021	Dr. S. Muthu Kumar, Sc'F' Programme AD, RCI Kanchanbagh, Hyderabad.
4	30-12-2021	K. Vamsi Krishna Reddy, Sc'F' Programme AD, RCI Kanchanbagh, Hyderabad
5	30-12-2021	A.P. Dabhade, Sc'F' PGAD/RCI, Head-Quality, DRDO, Hyderabad
6	19-02-2022	PururavThoutireddy California, USA
7	07-04-2022	Dr. Anand Govindaluri Singapore
8	17-06-2022	Chandra Talluri CEO-OTSI, KS, USA
9	18-06-2022	Dr. Bhiksham.G Bule Hora University, Ethiopia
10	28-07-2022	Rajiv Dubey Professor & Chair Dept of Mechanical Engineering, University of South Florida, Tampa, Florida, USA
11	02-08-2022	A. K. Chakrabath Former Director, DRDL
12	09-09-2022	Mr. Harish Lokhan Market Development Manager – India, UK
13	04-01-2023	Dr. Abhishek Deshpande IIIT-Hyderabad
14	04-01-2023	Aishwarya Deshpande University of Wisconsin – MadisonUSA

PROJECTS AND DISSERTATIONS COMPLETED

BE : 35

M.E : 45

Ph.D : 08

Ph.D : 04 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 3D Printing, which has helped the University to claim its rightful place in Additive Manufacturing technology.

For further details please Contact:

Sr.Prof. Sriram Venkatesh

Director

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

University College of Engineering

Osmania University, Hyderabad – 500 007

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

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



EOS SLS 3D Printer



SLM Metal 3D Printer



**STRATASYS
Polyjet 3D
Printer**



**ARTEC
Handheld 3D
Scanner**

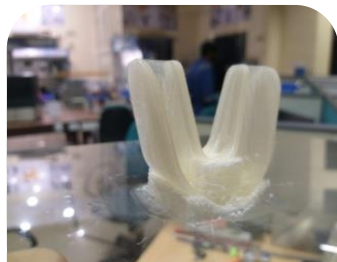
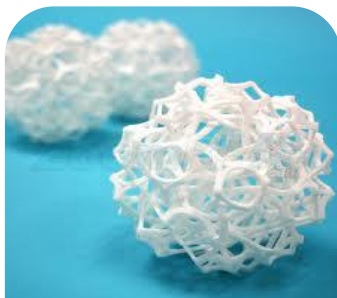
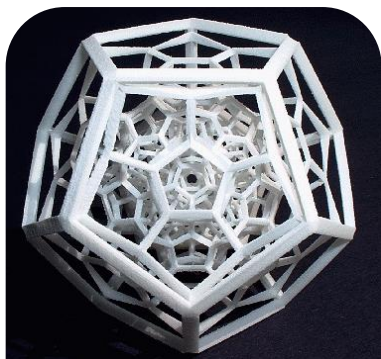


**3D Systems
FABPRO SLA
3D printer**



**ULTIMAKER
SPRO FDM
3D printer**

SOME PROTOTYPES PRODUCED AT THE CENTRE



CENTRE FOR EXCELLENCE IN MICROWAVE ENGINEERING (CEME)

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 (CCT)

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

Prof. P. Chandra Sekhar	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 (EDC)

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 Interne. 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. P. Chandra Sekhar

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 inCET



Solar Training Kit (TEQIP-II)

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

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:

Dr.E.Madhusudan Raju NSS Program officer Unit-I & Associate Professor, Mechanical Engineering Dept., UCE, OU	Dr. Abdul 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 Bharat" at Amritsar	3-15, June 2018	Gold medal

S.no	Cadet name	Event participated	Duration	Award/Honor
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

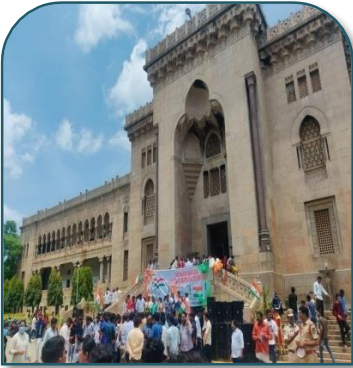
Flg.offr.

Dr. D.Suman

Associate NCC Officer

BME, UCE (A), OU.

NCC Events



Three Week Induction Program for first year UG students

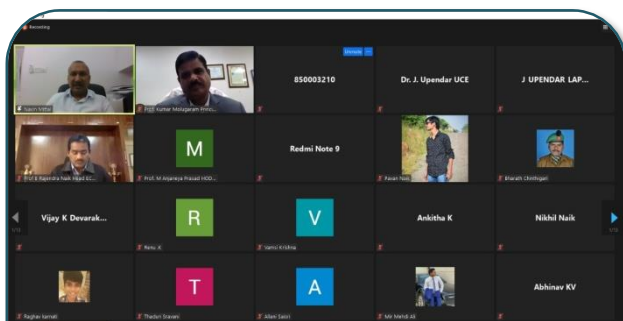
The one week Induction Program for the newly admitted students of Engineering was inaugurated by Mr. Navin Mittal IAS, Commissioner of Collegiate & Technical Education, Govt of Telangana on 02.12.2020.

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. 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 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, 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.







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.

STUDENT CLUBS

S.No	Name of the Club	Faculty Coordinator	Mobile No.	Student Representatives	Mobile No.
1	YOUVA	Dr. 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	Sr.Prof. Sriram Venkatesh	9440408333	P. Satya Aravind	8639259265
6	SAE collegiate Club	Dr. E. Madhusudhan Dr. R.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	Filmtan	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:

- 9) Team Bolt participated in EVDC 2022 and stood 1st All over India.
- 10) Team Ecofiets 2.0 participated in ETWDC 2022 and stood 4th All over India.
- 11) 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.

Filmton (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. Filmton welcomes all the students who are passionate and want to be a part of a vibrant community.

ACADEMIC RESEARCH COMMITTEE

Vision

To promote research excellence among faculty members and students by creating a culture of research and awareness about available research schemes.

Objective

1. To create awareness among faculty members about the various research schemes offered by funding agencies, and assist in the preparation of research proposals.
2. To review the quality of research proposals submitted by faculty members and provide expert feedback to enhance their quality.
3. To monitor and evaluate the progress of ongoing research projects, and offer support to principal investigators to overcome any procedural hurdles they may encounter.
4. To organize and host lectures by eminent speakers from across the globe to expose faculty members to cutting-edge research and stimulate academic discussions.
5. To encourage interdisciplinary research collaborations among faculty members, and promote a culture of research excellence within the institution.

Guidelines for Financial Support to Faculty and Students

1. The Scopus/SCI/Web of Science Journal / Article processing charges:
 - a. The impact factor must be at the time of submission/ acceptance/ publication as per the website <https://www.scijournal.org/>
 - b. Amount: A maximum of Rs. 50,000/- or actuals whichever is less for each paper maximum of 2 papers per Faculty/Student in a financial year.
2. For authoring Textbooks from reputed National and International publishers, a maximum amount of Rs. 30,000/- will be given.
3. No Financial limit for publishing patents
4. The following documents have to be attached and the application as proof to substantiate the claim.
 - 4.1 Journal publications:
 - a. Proof of final acceptance letter along with published full-length paper having DOI/ Vol. issue details and payment details in the form of invoice & transaction information.
 - b. Proof of impact factor of Scopus/SCI/Web of Science Journals from the website <https://www.scijournal.org/> .

4.2 Book Publications: Proof of the book having a title, author name, ISBN and publisher details should be submitted. Once the application is approved the author has to submit a sample copy of the book to sanction the amount. The author has to submit proof of payment in the form of an invoice & transaction information.

4.3 Patent Publications: Proof of acceptance/grant of a patent with payment receipt/invoice and transaction details to be enclosed. Once the application is approved the inventor/contributor of the patent has to submit an abstract to sanction the amount.

Note:

1. Faculty/Students have to pay in advance. The amount will be reimbursed only after the approval of the Academic Research Committee as per the guidelines and the submission of documents as per the checklist above.
2. Faculty / Students should claim from only a single source either from the College or from the University. Constitution of the Committee

Constitution of the Committee

S.No.	Name of Faculty	Designation
1	Prof. P. Chandra Sekhar	Principal Chairperson
2	Prof. G. Mallesham	Dean, Development & UGC Affairs, OU. Member
3	Prof. M. Malini	Dept. of BME Member
4	Prof. D. Ramakrishna	Dept. of ECE Member
5	Prof. L. Siva Ramakrishna	Dept. of MED Member/Convener

Role & Responsibilities Of The Research Committee

1. To create awareness among the faculty members of UCE (A), OU regarding various research proposal schemes available under multiple funding agencies like DST, AICTE, UGC, DBT, Defence labs etc.
2. To examine the research proposals prepared by the faculty and suggest any modifications before submitting them to the funding agencies involving subject experts from the Industry & Academic Institutions.
3. To review the progress of research projects to help the Principal Investigator in overcoming procedural hurdles like procurement of equipment, contingency, transportation etc., faced by them during the execution of the project.
4. To create awareness among other faculty to know research areas through presentations periodically.

RESEARCH & DEVELOPMENT CELL

University College of Engineering

Osmania University

The Research and Development Cell, University College of Engineering, Osmania University was established in the year 2023 with Dr. L. Siva Rama Krishna, Professor, Department of Mechanical Engineering, UCE, OU as the founder director of the R&D Cell. The main objective of the cell is to encourage Faculty and Students of the college to apply for various R&D Projects sponsored by AICTE, DST, UGC, DBT and other prominent government funding agencies, R&D organisations from defence, CSIR Labs and industries in around Hyderabad. The R&D Cell also aims to conduct various workshops and training programs for creating awareness among faculty and students on applying to projects and patents.

INTERNAL COMPLAINTS COMMITTEE (ICC)

The University College of Engineering at Osmania University has constituted an Internal Complaints Committee (ICC) to address any complaints of sexual harassment made by women employees. The ICC is in compliance with the guidelines issued by the National Commission for Women and the directives of the Hon'ble Supreme Court Judgment dated 13th August 1997 in the case of Visakha and others vs. State of Rajasthan and Others on the subject of sexual harassment of women in the workplace. 1 The Chairperson of the ICC is Prof. M. Manjula (EED), and the Convenor is Prof. K. Saraswathamma (MED). The other members of the committee include Prof. P.V. Sudha (CSE), Prof. K.L. Radhika (CED), Prof. P. Koti Lakshmi (ECE), and Mrs. G. V. Nagalaxmi (EED). The ICC is responsible for ensuring a safe and respectful working environment for all employees and addressing any complaints of sexual harassment in a fair and timely manner.

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, 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 Freshers 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

director@infrastructureuceou@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

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 P Chandra Sekhar	Principal	9866695963
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	Dr.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	Chief Warden, 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	: 8331040962
Head, Civil Engg. Department	: 8331997303
Head, CSE Department	: 8331997306
Head, Electrical Engg. Department	: 8331997305
Head, ECE Department	: 8331997307
Head, Mechanical Engg. Department	: 8331040964
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