ELECTRONICS & COMMUNICATION ENGINEERING

CAMPUS PULSE

NEWS LETTER

2024-25 Issue1(July-September)

LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING

MYLAVARAM

Quarterly Report A.Y.2024-25 (01-07-2024 to 30-09-2024)

Events Organized by the department

Conferences/ FDPs/STTPs/ *Staff Colloquiums/* Workshops/ Certification programs/ Guest Lectures / Technical Club Activities/ Student Chapter/ Professional Society/Chapter activities/Hackathons/ Alumni Interactions

Photo	Details
	The Department of ECE has organized Quiz Contest in association with IETE on 27-09-2024.The convenor of this program is Dr.G.Srinivasulu and coordinator is Dr.V.Ravi Sekhara Reddy.Total 220 students are participated in this event. The main objective of this event is to evaluate participant's knowledge, to develop student's critical thinking, communication skills and building confidence.

Industrial Visits:01

Dr.K. Rani Rudrama, Dr.k.Ravi kumar, Mr.Ch.Mallikarjunarao and Mrs.K.Balavani. Visitors(students and the accompanying staff) travelled to SDSC SHAR by transportation arranged by the students. The journey commenced at around 5:00 PM from College Campus and reached SDSC SHAR at around 9:00AM on 17-09-2024 (Tuesday). After several security checks and administrative formalities, visitors were taken to a central building. In this place, they were shown a video – 'Gateway to Space' – on the ISRO, its history, and the current facilities available.

Interaction with outside world:

Online/ face-to-face FDPs attended (External): 01

S.N0	Name of the Faculty	Name of the FDP	Conducted Department	Duration
1	Mr.T. Anil Raju	High Performance Computing (HPC): Centre for HPC upskilling Knowledge - sharing	CDAC, Bangalore	22.07.2024 to 26.07.2024
2	Dr.GLN Murthy	one-week online FDP on IoT and Embedded systems	NITTTR, CHANDIGARH	23.09.2024 to 27.09.2024

Faculty Acted as Resource Persons/Session Chair/BoS members/Reviewer: 3

Name of the Faculty	Name of the Activity
Dr.B.Poornaiah	BOS member Universal College of Engineering and Technology
Dr.B.Poornaiah	Subject Expert for Faculty Ratification at RISE Gandhi Institute of Technology
Dr.B. Poornaiah	Subject Expert for Faculty Ratification at Universal College of Engineering and Technology

Certification Programs –1

Name of the Faculty	Name of the webinar	Institute/Organization	Dates
Dr. M.Venkata Sudhakar	Technical communication for engineers	IIT Roorkee	July-August 2024

Webinars: 1

Name of the Faculty	Name of the webinar	Duration
Dr.E.V Krishna Rao	Design Innovation for Silicon-based D-band Phased Arrays	26-07-2024
Mr.T.Anil Raju	Opportunities in the semiconductor Industry	27-07-2024
Dr.E.V Krishna Rao	Emerging SatcomTechnology and its Applications	08-08-2024

Research and Development

Sponsored Research & Consultancy: Nil

Publications:

Journals (WoS/SCI/SCOPUS):07

Title of paper	Name of the Author/s	Name of journal / Conference	ISSN Number	Link of the recognition in UGC Enlistment of the Journal
Design of Multi-loop PI controller for minimum phase system level regulation in a quadruple tank: A method for Constraint optimization	Mahammed Rafi.G, R. R. Dhanalakshmi, **Rambabu. B**	International Journal of Electrical and Electronics Research (IJEER)	2347-470X	https://ijeer.forexjournal.co.in/archive/volume-12/ijeer-120315.html
Sea Clutter Suppression using Neural	**Ravi Kumar Kandagatla**, Vineela	Maritime Technology and	2651-205X	https://so04.tci-thaijo.org/index.php/MT

Network	Malapati (20761A0432), Krishnaveni Ch (20761A0410), Bharadwaj Sindhe (20761A0456), Vijaya Kumar P, Bala Krishna T	Research		R/article/view/272334
Revolutionizing Satellite Communications: A Comprehensive Exploration of Lora Technology for Enhanced Data Acceleration"	Madhavi Mallam, Yashaswini MP, G. Reddy Hemantha, **M.K Linamurthy**, J Venkata Suman	International Conference on Computational Innovations and Emerging Trends (ICCIET-2024)	10.2991/978-94-6463-471-6_67	https://www.atlantis-press.com/proceedings/icciet-24/126002041
Enhancing MR perfusion Analysis: Advanced Multi-Echo Time Tuning and Contrast-to-Noise Ratio	**Bandrapalli Rajeswari**, P. Abdul Khayum,	International Conference on Social and Sustainable Innovations in Technology and Engineering-SASI-ITE'24,	979-8-3503-6079-0	https://ieeexplore.ieee.org/document/10607019
Design of Wearable Patch Antenna using Wireless Body Area Networks	**M. Sivasasankar Rao**, M.Sandeep (20761A0493), D.Vanaja (20761A0479), D. Ramcharan (20761A0485)	2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE)	979-8-3503-6079-0	https://ieeexplore.ieee.org/document/10607094
Review of Semantic Segmentation	**B.Rajeswari**, J. Mani Ram (20761A0426),	International Conference on Social and	979-8-3503-	https://ieeexplore.ieee.org/document/10607122

by using deep learning methods	D.V.T. Praveen Kumar (20761A0412), K.L.V.V. Harshith (20761A0427)	Sustainable Innovations in Technology and Engineering-SASI-ITE'24	6079-0		
Design and analysis of multiband circular petal flower shaped microstrip patch antenna for WLAN/WIMAX ISM band applications	**K. Rani Rudrama**, K. Pravallika (20761A0428), B. Vamsi (20761A0404), P. Jagadeesh (20761A0447)	First international conference on trends in Engineering systems and technologies	979-8-3503-0779-5	https://ieeexplore.ieee.org/document/10576177	
Distortion-tolerant on-off keying preemphasis signal transmission for a 10Gbps indoor visible light communication	Muppidi Venkata Sudhakar	Journal of Optical Communications	2191-6322	https://doi.org/10.1515/joc-2024-0160	

Conference Proceedings: 4

Authors	Name of Conference	Title of Paper	Venue	Duration
Srinivasulu Gundala, Lachi Reddy Poreddy	2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS 2024)	Implementation of Full Adder Cells for Ultra Low Power Energy Efficient Computing Applications	Hindusthan College of Engineering and Technology, Coimbatore, India	10-07-2024 to 12-07-2024
T. Kalpana, M Spandana,	5 th International Conference on Image	Biologically inspired spiking CNN Brain tumor	Kathmandu university Dhulikhel, Nepal	03-07-2024 to 04-07-2024

P Meghana, T Sai Eswar Kumar,	Processing and Capsule Networks (ICIPCN-2024)	classification			
Poornaiah Billa, J. Divya **(20761A0425)** P. Lakshmi Lavanya **(20761A04G9)** M.Vidya **(20761A04G5)**	1st International Conference on "Computational Intelligence for Security, Communication and Sustainable Development	Efficient Detection of Lung Diseases using Deep Learning Through Scan Images	Dr.B.R.Ambedkar Institute of Technology, Port Blair, Andaman & Nicobar Islands.		5th-6th August 2024
Poornaiah Billa, Uday Kiran **(20761A04G0)**, Y. Jigeesha **(20761A04J1)**, B. Baby Shalini **(21765A0416)**	1st International Conference on "Computational Intelligence for Security, Communication and Sustainable Development (CISCSD)	Design and Implementation of 4-bit synchronous up counter using GPDK 45 Technology	Dr.B.R.Ambedkar Institute of Technology, Port Blair, Andaman & Nicobar Islands.		5th-6th August 2024

Books/Book Chapters:1

Name of the Teacher	Title of the book/ Chapetrs published	Title of the paper	National/ International	ISBN/ISSN number of the proceeding	Name of the publisher
Dr.P.Venkat Rao	Advancing Intelligent Networks Through Distributed Optimization	A Comprehensive framework on emotion aware stress detection using IoT and Machine Learning	International	9781668473665	IGI Global

Faculty Achievements/Recognitions:

Best Teachers: 6

S.No	Name of the Faculty
1	Dr.B.Y.V.N.R Swamy
2	Dr.B.Poornaiah
3	Dr.P.Lachi Reddy
4	Dr.K.Ravi Kumar
5	Dr.V.Ravi Sekhara Reddy
6	Mr.K.Sasi Bhushan