ELECTRONICS & COMMUNICATION ENGINEERING

CAMPUS PULSE

NEWS LETTER

2024-25 Issue2(October-December)
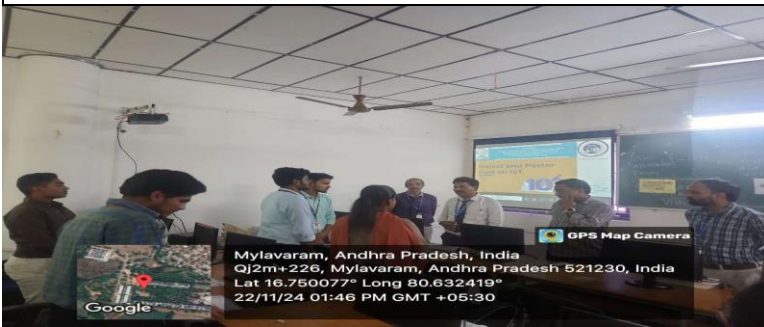
LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
MYLAVARAM

Quarterly Report A.Y.2024-25 (01-10-2024 to 31-12-2024)

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 IoT Project and Poster Expo 2024 on be half of ISTE on 2-11-2024 .The coordinators of this program are Dr.P.Venkat Rao, Dr.B.Poornaiah, Ms.G.Asha. Total 41 Teams (123) students are participated in this event. Name of Judges are Dr. Krishna Prasad Satamraju, Associate Professor, VVIT, Guntur,A.P. Mr. A. Karuna Kumar, Assistant Professor, DVR & Dr. HS MIC College.The main objective of this event is to encourage the students to present their innovative ideas and projects in the field of IoT.

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. Bala Krishna	Innovations in Sustainable Research and Modern Date-Driven Approaches	ST. Joseph University, Nagaland,India	14th to 18th OCT 2024
2	Mr.M.Sambasiva Reddy	Fundamentals of Machine Learning	Electronics&ICT Academy,C-DAC Hyderabad	20-12-2024 to 24-12-2024

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

S.N0	Name of the Faculty	Name of the FDP	Conducted Department	Duration
1	Mr.T.Balakrishna	Empowering educators to elevate employability skills	LBRCE	16-12-24 to 21-12-24

Faculty attended International / National Conferences (External):2

Name of the Faculty	Name of the conference	Institute/Organization	Dates
Mr.T.Anil Raju	ICEAI 2024	Taylor's University and RVSCE,Malaysia	26-27 November 2024
Smt.B. Rajeswari	ICEAI 2024	Taylor's University and RVSCE,Malaysia	26-27 November 2024

Certification Programs -NPTEL-24

Elite+ Gold	Elite+Silver	Elite	Successfully Completed	Topper	Total
-	10	13	4	05	24

S.No	Name Of The Faculty	Name Of The Course	% Of Marks	Grade	Toppers
1.	Dr. E .V Krishna Rao	Introduction To Algorithms and Analysis	63	Elite	---

2.	Dr.A.Narendra Babu	Innovation, Business Models and Entrepreneurship	48	Successfully completed	----
3.	Dr.P.Lachi Reddy	Introduction to Industry 4.0 and Industrial Internet of Things	73	Elite	---
		System Design Through Verilog	82	Elite+Silver	---
4.	Dr.M.V.Sudhakar	Technical Communication for Engineers	83	Elite+Silver	---
5.	Dr.G.L.N Murthy	Analog Communication	82	Elite+Silver	Topper of 2% in this course
6.	Dr.B.Poornaiah	Introduction to Internet of Things	88	Elite+Silver	Topper of 5% in this course
		Introduction to Industry 4.0 and Industrial Internet of Things	73	Elite	---
7.	Dr.T.Satya Narayana	Introduction to Internet of Things	80	Elite+Silver	---
8.	Dr.Rambabu Busi	Introduction to Internet of Things	60	Elite	---
9.	Dr.B.Y.N.R Swamy	Introduction to Internet of Things	61	Elite	---
10.	Dr.P.Rakesh Kumar	Introduction to Internet of Things	65	Elite	---
11.	Dr.B.S. Hari Prasad	Nanophotonics, Plasmonics, and Metamaterials	58	Successfully Completed	---
		Introduction to Internet of Things	76	Elite+Silver	---
12.	Dr.V. Ravi Sekhara Reddy	Electromagnetic Theory	60	Elite	---
13.	VENKAT RAO PASUPULETI	Introduction to Industry 4.0 and Industrial	82	Elite+Silver	Topper of 5% in this course

		Internet of Things			
14.	Mr.M.K Linga Murthy	Analog Communication	80	Elite+Silver	Topper of 5% in this course
15.	Mrs.B.Rajeswari	Control Systems	44	Successfully completed	---
16.	Mr.P.Venkateswara Rao	Introduction to Internet of Things	70	Elite	---
17.	Mr.Ch.Siva Rama Krishna	Introduction to Internet of Things	71	Elite	---
18.	Smt.M.Ramya Harika	Introduction to Internet of Things	84	Elite+Silver	---
19.	Mr.M.Sambasiva Reddy	Machine Learning and Deep Learning - Fundamentals and Applications	62	Elite	----
20.	Smt.K.Pavani	Introduction to Internet of Things	75	Elite+Silver	---
21.	Mrs.K.Balavani	Digital VLSI Testing	58	Successfully completed	---
22.	Mr. P. James Vijay	Machine Learning and Deep Learning - Fundamentals and Applications	71	Elite	Topper of 5% in this course
23.	Ms.Asha Ganta	Introduction to Internet of Things	73	Elite	---
24.	Boggula Lakshmi Thirupathamma	Introduction to Internet of Things	62	Elite	---

Online Courses-1

Name of the Faculty	Name of the course	Institute/Organization	Dates
Dr.Y.Amar Babu	"AI/ML for 5G and 6G Wireless Communication"	CENTRE FOR CONTINUING EDUCATION (CCE) INDIAN INSTITUTE OF SCIENCE (IISc) BENGALURU	02-12-2024 to 11-12-2024

Certification Programs (AICTE)–1

Name of the Faculty	Name of the course	Institute/Organization	Dates
Mr.T.Balakrishna	Communication skills,Modes and Knowledge Dissemination	AICTE(NITTR)	July to Aug2024

<mark>**Research and Development**</mark>

Sponsored Research & Consultancy: Nil

Publications:

Journals (WoS/SCI/SCOPUS):13

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 energy-efficient full subtractor circuit at near threshold computing for signal processing application	Mohammed Mahaboob Basha, **Srinivasulu Gundala**, V Madhurima and Arfat Ahmad Khan	Engineering Research Express	2631-8695	https://doi.org/10.1088/2631-8695/ad81ce
Design, Simulation and Optimization of MEMS-based Piezoresistive Biosensor with Stress Concentration Region for Biosensing Applications	**Rambabu Busi, Satyanarayana Talam**, Ch. Karthikeya Reddy, T. Ashok Reddy, R. Gowtham Arun Kumar R. Naveen, Ch. Jyothi ram and M. Harshada	The Journal of Active and Passive Electronic Devices (JAPED)	1555-0281	https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-153-160/
Minimization of Leakage Current Control	M. Mahaboob Basha, **Srinivasulu**	The Journal of Active and Passive	1555-0281	https://www.oldcitypublishing.com/journals/japed-home/japed-issue-

in CMOS Adder Circuits Using Parametric Variations"	**Gundala and Rambabu Busi**	Electronic Devices (JAPED)		contents/japed-volume-18-number-2-2024/japed-18-2-p-105-118/
Speech Enhancement using Joint Time and DCT processing for Real Time Applications	**Ravi Kumar Kandagatla,** V. Jayachandra Naidu, P.S.Sreenivasa Reddy, Sivaprasad Nandyala	International Journal of Image, Graphics and Signal Processing (IJIGSP)	2074-9082	ps://doi.org/10.5815/iji gsp.2024.05.02
Exploring energy efficient area optimized one-bit full Subtractor circuit for Signal processing application using CMOS and Fin FET Technology	Mohammed Mahaboob Basha, Krishna Samalla, **Sriniva sulu Gundala**, Nouchu Rahul, Dadapak Sriya, Salluri Deepika	2024 IEEE 2nd International Conference on Networking, Embedded and Wireless Systems (ICNEWS), on 22-23 August 2024 organized by BMS college of Engineering, Bangalore. (Online 29 October 2024)	979-8-3503-6746-1	https://doi.org/10.1109/IC NEWS60873.2024.10730942
Novel Method for Bone cancer detection using Segmentation and classification with CNN	V.Madhurima, M.Bharathi, **Srinivasulu Gundala**, M Mahaboob Basha, M Poornima, G Sandhya Kumari	2024 5th International Conference on Electronics and Sustainable Communication Systems (ICESC), at Coimbatore India, during 7-9 August 2024 **(Online 2 October 2024)**	979-8-3503-7994-5	https://doi.org/10.1109 /ICESC60852.2024.1068 9931
Stock Market Price Prediction using Machine Learning	Madhavi Mallam, **M.K.Linga Murthy,** Tatikonda Sri	2024 Second International Conference on Advances in Information	979-8-3503-8386-7	https://dhttps://doi.org /10.1109/ICAIT61638.2 024.10690737 oi.org/10.1109/ICAIT61 638.2024.106907

	Devi, Jami Venkata Suman, Dr.Subba Rao Polamuri	Technology (ICAIT-2024), during 24-27 July 204, (04 October 2024)		
Distributed Arithmetic Based FIR FPGA Implementation	Mohammed Mahaboob Basha, P.Sai Rama Shashank, G. Rushikesh, K. Varsha Reddy, G. Ganesh Kumar, **Srinivasulu Gundala**	15th International Conference on Computing, Communication and Networking Technologies	979-8-3503-7024-9	**https://doi.org/10.1109/ICCCNT61001.2024.10725340**
Enhanced PSO Integrated Machine Learning for Launch Vehicle Engine Temperature and Pressure Monitoring	**Kola Balavani,** V.Akshara, E.Venkata Sandeep, M.Charan Sai, K. Raghava Rao, B. Naresh Kumar Reddy	15th International Conference on Computing, Communication and Networking Technologies	979-8-3503-7024-9	**https://doi.org/10.1109/ICCCNT61001.2024.10725589**
Property Price Estimation using Machine Learning and implementing a website using HTML, CSS and Javascript	Naga Swathi Nidamanuru, Kommalapati Rajesh, U. Srinivasarao, Kalpana Koppolu, **Kola Balavani,** Mogadala Vinod Kumar	15th International Conference on Computing, Communication and Networking Technologies	7024-9 979-8-3503-7024-9	**https://doi.org/10.1109/ICCCNT61001.2024.10724138**
Design and optimization analysis of Srichakra Shaped Conformal Antenna for off body communication	Srinivasa Rao Ghali, B. Prudhvi Nadh, Prathipati Rakesh Kumar, Moath Alathbath, B.T.P. Madhav	Wireless Personal Communications	1572-834X	https://doi.org/10.1007/s11277-024-11708-w

applications				
Design of a high Gain Low Noise Amplifier at 3.3 GHz using CMOS Technology	Ravi Kumar Kandagatla, Surya Teja K, Ramya S, Vijaya Kumar P, Dileep Kumar P	Engineering Access	2730-4175	https://ph02.tci-thaijo.org/index.php/mijet/article/view/253867
Machine Learning Enabled System for Screening Covid-19 kind of disease for dense population sector	Mohammed Mahaboob Basha, P. Bhuvanswari, V.Madhurima, Lachi Reddy Poreddy, Srinivasulu Gundala	Engineering Access	2730-4175	https://ph02.tci-thaijo.org/index.php/mijet/article/view/254231

Patent publications: 01

Name of Applicant / Inventor	Title of the Patent	Submitted / Published / Awarded	Patent Number	Patent Office
Niraj Nagrale Mohit Raikwar, Dr.Pushpendra Anuragi Dr.Nikhat Raza Khan Dr.Sayyad Jilani **Dr.B.V.N.R. Siva Kumar** Sanjay Mirchandani Dr.Sricheta Parui	Advanced Ear Biometrics Authentication using EfficientNET CNN for enhanced Security	Published	202421069667 A	Indian Patent Office

Students' Participation

Activity	No. of Students Participated				Total
	I Year	*II Year*	*III Year*	*IV Year*	
Co-Curricular Activities	Nil	Nil	Nil	Nil	Nil
Online Certifications (MOOCS/NPTEL etc.)	Nil	Nil	71	37	108
Extra-curricular activities-Sports & Games	Nil	Nil	Nil	Nil	Nil

Extra-curricular activities- Yoga	Nil	Nil	Nil	Nil	Nil
Cultural activities	Nil	Nil	Nil	Nil	Nil
Community Engagement-NSS	Nil	Nil	Nil	Nil	Nil
Community Engagement -NCC	Nil	Nil	Nil	Nil	Nil
Community Engagement – Community Service Projects	Nil	Nil	Nil	Nil	Nil

Placements: TCS NINJA-3.86 LPA

S.NO	ROLL NUMBER	NAME OF THE STUDENT
1	21761A04E8	J.KAVYA
2	21761A04H7	SK.RESHMA
3	21761A04D1	A.DURGA