



SRI INDU



INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution, Accredited by NAAC with A+ Grade
Recognized under 2(f) of UGC Act 1956.
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

News Letter

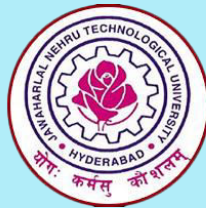
For the department of
ECE

Bi-Annual News Bulletin

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EDITORIAL COMMITTEE		
Chief Editor	Dr.D.Lakashmaiah	HOD
Editor	Dr.S.Suresh	Professor
Technical advisor	S.Naresh	Associate Professor
Technical Support	A.Sindhuja	Assistant Professor

STUDENT EDITORS		
Roll No	Name	Year
21X31A0444	M.Akshith	II
20X31A0452	K.Rishitha Reddy	III
21X31A0418	Bharath	II

“Teaching is the greatest act of Optimism”- **Collen Wilcox**

MESSAGE FROM HONOURABLE CHAIRMAN



Welcome to the SIET Newsletter *ELECTRONICS WORLD* This edition elucidates the activities and accomplishments of the college from July to December, 2020. This period has proved to be enlightening and encouraging with successful administration. It is a matter of honour that *SIET* is bringing out its third newsletter, *ELECTRONIS WORLD*. The idea of updating the faculty and students with the achievements of the college is creditable. It is heartening to see that SIET has strived its best to reach the greater altitude. This introduction of the newsletter will give an opportunity to the faculty and the students to craft and showcase their knowledge and skills. I am hopeful that all the achievements of the students and faculty will inspire other students to excel in their lives, with a sense and vision of determination.

The college has been strengthening its infrastructure and resources to meet the global demands. The Chairman's vision has made the college one of the most sought.

The infrastructural resources too have taken a great leap to meet the global demands in the arena of technology in every stream of B. Tech.

The Chairman's emphasis on employability skills has enabled employability training and the placement cell is in full

Progress on capturing good placements in top notch companies even with the present slow pace in the job market.

The students are involved in real time projects thus enriching their innovative skills. The college is endeavoring for excellence in "An art won by training and habituation".

The editorial team solicits your valuable suggestions and wishes everyone a successful year.

"Happy Reading!"



DEPARTMENT VISION

To become a recognized center in the field of Electronics and Communication Engineering by producing creative engineers with social responsibility and address ever-changing global challenges.

Vision Statement:

To become a recognized center in the field of Electronics and Communication Engineering by producing creative engineers with social responsibility and address ever-changing global challenges.

Mission Statement:

DM1 : To facilitate an academic environment that enables student's centric learning.

DM2 : To provide state-of-the-art hardware and software technologies to meet industry requirements.

DM3 : To continuously update the Academic and Research infrastructure.

DM4 : To Conduct Technical Development Programs for overall professional caliber of Stake Holders.

Program Educational Objectives (PEOs)

1. Graduates with a strong foundation in Electronics and Communication Engineering, Science and Technology to become successful in the chosen professional career.
2. Graduates with ability to execute innovative ideas for Research and Development with continuous learning.
3. Graduates inculcated with industry based soft-skills to enable employability.
4. Graduates demonstrate with ability to work in interdisciplinary teams and ethical professional behavior.

Program Specific Outcomes(PSO's)

- 1 .**Design Skills:** Design, analysis and development a economical system in the area of Embedded system& VLSI design.
2. **Software Usage:** Ability to investigate and solve the engineering problems using MATLAB, Keil and Xilinx

PROGRAM OUTCOMES (PO's)

PO1 Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.

PO2 Problem Analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The Engineer & Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment & Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual & Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.

PO11 Project Management & Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-Long Learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

FACULTY ACHIEVEMENTS

NPTEL-SWAYAM

S.No	Name of the Faculty	Name of the Subject	Score	Certificate Type
1	Dr.K.Srinivasa Reddy	1) Distributed Systems	97%	Gold
		2) Big Data Computing	97%	Gold
		3) Ethical Hacking	70%	Elite
		4) Introduction to Machine Learning	69%	Elite
		5) Software Engineering	60%	Elite
		6) Social Networks	47%	Successfully Completed
2	I.Venu	1) Cloud Computing	65%	Elite
		2) Introduction to Industry 4.0 and Industrial Internet of Things	72%	Elite
3	S.Naresh	Introduction to Industry 4.0 and Industrial Internet of Things	76%	Silver
4	S.Alekhyia	Cyber Security and Privacy	54%	Successfully Completed
5	M.Ganesh	Introduction to Internet of Things	80%	Silver
6	T.Naresh	Ethical Hacking	60%	Elite
7	K.Srikanth	Multi-Core Computer Architecture	57%	Elite
8	Y.Raju	Ethical Hacking	55%	Elite
9	N.Aparna	Introduction to Internet of Things	90%	Gold
10	P.Rajendra	Introduction to Internet of Things	68%	Elite
11	T.Bhavani	Introduction to Internet of Things	84%	Silver
12	P.Kavitha	Introduction to Internet of Things	78%	Silver
13	P.Srilatha	1) Introduction to Internet of Things	77%	Silver

		2) Cyber Security and Privacy	57%	Successfully Completed
14	A.Vaani	Cloud Computing	55%	Elite
15	D.Aruna Kumari	1) Cloud Computing	61%	Elite
		2) Introduction to Internet of Things	75%	Silver
16	G.Nirmala	Cloud Computing	79%	Silver
17	K.Rajender	The Joy of Computing Using Python	73%	Elite

GUEST LECTURES

Sl.No	Event Name/Title	Date
1	Conducted A Guest Lecture On Advanced Operating Systems	11.08.2023
2	Conducted A Guest Lecture On Data Base Management Systems	16.08.2023
3	Seminar On “India’s Space Exploration Chandrayan And Mangalyan”	09.09.2023
4	Days WORKSHOP & 24 Hours HACKATHON	15-09-2023 to 24-09-2023
5	Guest Lecture On Digital Image Processing	20.09.2023
6	Guest Lecture On Analog Circuits	20.10.2023

GUEST LECTURES BY INDUSTRY EXPERTS

S. No.	Name of the Programme	From Date	To Date	Resource Person
1	One Day Guest Lecture on Digital Image Processing	9/8/2023	9/8/2023	S.PAVAN Senior Software Engineer WNP Technologies
2	One Day Guest Lecture on Microwave and Optical Communications	11/9/2023	11/9/2023	P.DINESH Senior Software engineer Data Evolve Technologies
3	2 Days Workshop On Basic Simulation Lab	20/09/2023	21/09/2023	P.SUNIL KUMAR Senior Software Developer PEAKSENSE TECHNOLOGIES
4	2 Days Workshop on Project Ideas	3/10/2023	4/10/2023	N.KRANTHI Senior software & hardware engineer TF Private limited,hyderabad
5	One Day Guest Lecture on Analog Circuits	11/10/2023	11/10/2023	V .KISHORE Senior Software developer Conscience technologies
6	2 Days Workshop On Microprocessors and Microcontrollers	16/10/2023	17/10/2023	B.PRASHANTH R&D Engineer TLC Industry Education Equipment Pvt Limited
7	One Day Guest Lecture on Electronic Measurements and Instrumentation	2/11/2023	2/11/2023	G.CHANDRA SHEKAR Senior Software Engineer WNP Technologies

List of Faculty Publications in Academic Year 2023-24:

S. No.	Name of Author	Title of Paper	Name of Journal	ISBN/ISSN Number & Vol. &Page No.	Approved Journal Name
1.	Mrs. D. Aruna Kumari	Waste management system using IOT	Journal of Emerging Technologies and Innovative Research (JETIR)	ISSN-2349-5162, Volume 10, Issue 7, Page No: 209-214	UGC Approved, Peer Reviewed and Referred Journal
2.	Mrs. D. Aruna Kumari	GSM Based Industrial Safety Detection and Prevention System Using Arduino	International Journal of Innovative Research In Technology (IJIRT)	ISSN-2349-6002, Volume 10, Issue 3, Page No: 373-377	UGC Approved, Peer Reviewed and Referred Journal
3.	Mr. I. Venu	Long-Short Term Memory Techniques based on predicting Stock Prices	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
4.	Dr. S. Suresh	Long-Short Term Memory Techniques based on predicting Stock Prices	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
5.	Mrs. P. Kavitha	A novel design of Authentication Using a Multimodal Biometric System	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
6.	Dr. K. Srinivasa Reddy	A relative Study on CNN for Face Detection method	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
7.	Mrs. P. Kavitha	A relative Study on	Journal of the Maharaja	ISSN:0025-0422	UGC CARE

		CNN for Face Detection method	Sayajirao University of Baroda	Volume : 57, No.2	Group-1
8.	Mrs. Y .Rajani	High performance of Farmer-Friendly Agriculture System base on IoT	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
9.	Mrs. S. Alekhya	Design Analysis of and Prediction of Mental Health Disorders Using Machine Learning	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
10.	Mrs. B. Jyothirmai	Design of Detecting Defects in Solar Cell Images	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 57, No.2	UGC CARE Group-1
11.	Dr. D. Lakshmaiah	New Design Of Fake News Detection Using Python	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No. 2	UGC CARE Group-1
12.	Mr. K. Srikanth	An Efficient Logarithmic Multiplier Using Iterative Mitchell's Algorithm using VLSI	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No.2	UGC CARE Group-1
13.	Mrs. G. Anusha	Machine Learning using Smart Weather Forecasting	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No.2	UGC CARE Group-1
14.	Mr. K. Srikanth	A Deign of Nonparametric Spectral Analysis for Movement	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No.2	UGC CARE Group-1

		Identification in Encephalography Signals			
15.	Mr. M. Ganesh	A Deign of Nonparametric Spectral Analysis for Movement Identification in Encephalography Signals	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No.2	UGC CARE Group-1
16.	Mr. K. Srikanth	Design of Controlled Car Engine System for Anti-Theft GSM and GPS Integrated SMS	Industrial Engineering Journal	ISSN: 0970-2555 Volume : 52, No.2	UGC CARE Group-1
17.	Mrs. A. Vaani	A novel Monitoring method for Patients in Coma using IOT	Journal of the Maharaja Sayajirao University of Baroda	ISSN:0025-0422 Volume : 52, No.2	UGC CARE Group-1
18.	Mrs. K. Padma,	IoT based on Driven Smart Sensors for Temperature and Humidity Measurement	Journal of the Maharaja Sayajirao University of Baroda ISSN:0025-0422	Volume-57, No.2	UGC Care Group 1 Journal, Peer Reviewed, bi-annual Journal

PATENTS

S.No	Applicant Name	Title of the Invention	Application Number	Publication Date
1	Dr. K. Srinivasa Reddy	Smart Road Maintenance Using Machine Learning and IoT Sensors	202341068085	11.10.2023
	Dr. D. Lakshmaiah			
	Mrs. G. Nirmala			
	Mr. M. Ganesh			
	Mr. K. Srikanth			
	Mr. S. Naresh			
	Mrs. D. Aruna Kumari			
Mrs. P. Kavitha				
2	Mrs. S. Alekhya	Agriculture Monitoring and Analysis Using Deep Learning on IoT Devices	202341068086	11.10.2023
	Mr. I. Venu			
	Mrs. B. Jyothirmai			
	Mrs. P. Srilatha			
	Mr. Y. Raju			
	Mrs. A. Vaani			
Mr. P. Rajendra				

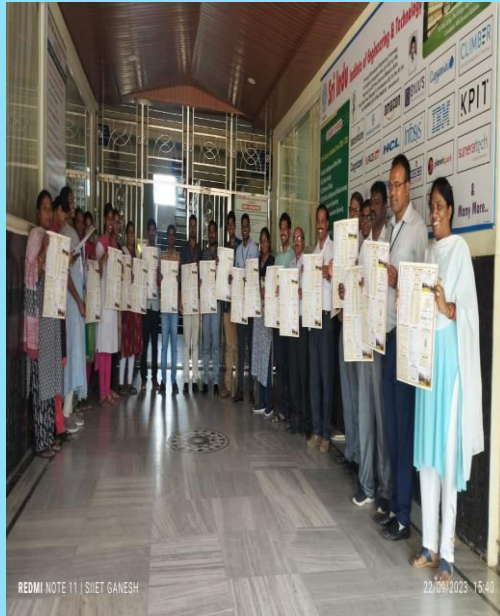
List of Conferences attended by Faculty in NCETA/ECCSET-2023

S. No.	Name of Author	Title of Paper	ISBN/ISSN Number & Vol. & Page No.
1.	Mrs. A. Sindhuja	Automated Seed Sowing Agribot using ARDUINO	978-93-95944-99-1
2.	Mr. K. Srikanth	IOT based virtual doctor using NODE MCU & web server	978-93-95944-99-1
3.	Mr. S. Naresh	High Performance Floating Point Multiplier In VLSI Architecture	978-93-95944-99-1
4.	Mrs. P. Kavitha	IOT based forest fire alarm and alerting system	978-93-95944-99-1
5.	Mr. T. Naresh	Design Of 64 Bit Mac Unit Architecture	978-93-95944-99-1
6.	Mr. I. Venu	Implementation Of Fsm Architecture Based TrafficLight Controlling Unit	978-93-95944-99-1
7.	Mrs. T. Bhavani	Smart Garbage Bin Using ARDUINO	978-93-95944-99-1
8.	Mr. Kura	Driver Drowsiness Detection Using	978-93-95944-99-1

	Rajender	MATLAB	
9.	Mrs. P. Srilatha	Smart Blind Stick Using Apr Module	978-93-95944-99-1
10.	Dr. K. Srinivasa Reddy	Image Defogging Using Advanced Haze Removal Techniques	978-93-95944-99-1
11.	Mrs. G. Nirmala	Android controlled Scrolling LED Message Display	978-93-95944-99-1
12.	Mrs. S. Alekhya	IOT Based Smart Air Pollution Monitoring In Vehicles	978-93-95944-99-1
13.	Mr. K. Srikanth	Smart Parking Slot Availability System In Shopping Malls	978-93-95944-99-1
14.	Mrs. A. Vaani	Design And Implementation Of Women Security Using GSM	978-93-95944-99-1
15.	Dr. D. Lakshamaiah	AI and ML based road sign recognition using python	978-93-95944-99-1
16.	Dr. D. Lakshamaiah	Android Controlled Scrolling LED message display	978-93-95944-99-1
17.	Mr. Y. Raju	Online Yoga Trainer Using Mediapi Algorithm	978-93-95944-99-1
18.	Dr. D. Lakshamaiah	Android Controlled Scrolling LED message display	978-93-95944-99-1
19.	Mrs. G. Anusha	Design Of ALU multiplexer implementation in SRAM architecture	978-93-95944-99-1
20.	Miss. N. Aparna	IOT Based Advanced Driving Car Using NodeMCU	978-93-95944-99-1
21.	Mr. P. Rajendra	Implementation Of Medicine Reminder Box For Old Age People	978-93-95944-99-1
22.	Mr. I. Venu	Smart air pollution monitoring in Vehciles	978-93-95944-99-1
23.	Dr. D. Lakshamaiah	FPGA based error detection and correction using CRC Algorithm	978-93-95944-99-1
24.	Mrs. P. Kavitha	Leakage Current Reduction Techniques in SRAM	978-93-95944-99-1
25.	Dr. D. Lakshamaiah	Smart Helmet Based On Iot Technology For Accident Detection And Protecting System	978-93-95944-99-1
26.	Dr. D. Lakshamaiah	Mobile Fingerprint Based Smart Low-Cost Door Controlling Unit	978-93-95944-99-1
27.	Mr. K. Srikanth	Real-Time Wireless Embedded Electronics for Soldier Security	978-93-95944-99-1
28.	Dr. K. Srinivasa Reddy	Face Emotion Recognition Using CNNAlgorithm	978-93-95944-99-1
29.	Dr. D. Lakshamaiah	IOT Based Forest Fire Alarm And Alerting System	978-93-95944-99-1
30.	Mrs. A. Sinduja	Autonomous Metal Detector Robot	978-93-95944-99-1

		Using AURDINO	
31.	Dr. D. Lakshamaiah	Android controlled Scrolling LED Message Display	978-93-95944-99-1
32.	Dr. S. Suresh	IOT Based Air Pollution Monitoring	978-93-95944-99-1
33.	Dr. D. Lakshamaiah	Hand Gesture Recognition Master Using MATLAB	978-93-95944-99-1
34.	Dr. D. Lakshamaiah	Iot Based Smart Servilience Monitoring Robotic Car Using ESP32	978-93-95944-99-1
35.	Mrs. T. Bhavani	Approach For Implementation Of Vending Machine Through Verilog Hdl	978-93-95944-99-1
36.	Dr. D. Lakshmaiah	Detecting The Spam Comments On Youtube Videos Using SVM&KNN	978-93-95944-99-1
37.	Dr. D. Lakshmaiah	AI Based Automatic Number Plate Recognition Using Phython	978-93-95944-99-1
	Dr. D. Lakshmaiah	Early Flood Detection And Alerting System Using Iot	978-93-95944-99-1
38.	Dr. D. Lakshmaiah	Smart Crop Recommendation System For Farmers Based On Environmental Conditions	978-93-95944-99-1
39.	Dr. S. Suresh	ML Based Brain Tumour Detection Using Nural Network	978-93-95944-99-1
40.	Dr. D. Lakshmaiah	Fake News Detection Using Python	978-93-95944-99-1
41.	Mr. P. Rajendra	Smart Weather Forecasting Using Machine Learning	978-93-95944-99-1
42.	Dr. D. Lakshmaiah	Farmer-Friendly Agriculture System using IoT	978-93-95944-99-1
43.	Mrs. S. Alekhya	Hand Gesture Controlled Wheelchair	978-93-95944-99-1
44.	Mr.S.Naresh	FAST ARTHEMEDIC CSLA USING VERILOG	978-93-95944-99-1

EVENTS/PHOTOGRAPHS




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WELCOME
 To
BROCHURE & POSTER RELEASE EVENT
 of
2nd NATIONAL CONFERENCE
 on
Emerging Technologies in Applied Science, Electronics & Communication, Computer Science, Engineering and Technology-2023
(NCETAECSET-2023)
13th & 14th October 2023

Chief Patron	Patron	Co-Patrons
 Sri.R.Venkat Rao Chairman	 Sri.R.Anup Chakravarthy Secretary	Dr. A Ramakrishna Rao Dr. I Satyanarayana Dr. R Yadagiri Rao Dean Academics Principal Prof. & HOD, H&S Dept.
Convenor		
Dr. Dayadi Lakshmaiah Prof. & HOD, ECE and CSE(IOT) Depts.		

NCETAECSET-2023 Conference poster release





Sri R. Venkat Rao
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SOUVENIR

2nd National Conference on
**Emerging Technologies in Applied Science,
 Electronics & Communication, Computer Science,
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 Dr. R. Yadagiri Rao
 Dr. D. Lakshmaiah

NCETAECSET-2023 CONFERENCE BOOK PUBLICATION



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