



Newsletter

ELECTROGALORE

Department of Electronics and Communication Engineering

INSIDE

- **Message from HOD** 2
- **Courses Offered** 3
- **Facilities Offered** 3
- **Industrial Visits** 4
- **Events Conducted** 5
- **Upcoming Events.** 7
- **Student Achievements** 7
- **Faculty Publications.** 10
- **Internship Details** 12
- **Student's Corner** 13





MESSAGE FROM HOD

It gives me immense pleasure to extend a warm welcome to everyone to the Department of ECE. Our department is excited to announce the release of the current edition of our newsletter,

"ELECTROGALORE," which marks our second issue. This edition showcases the department's noteworthy accomplishments and activities undertaken by both students and faculty in the last quarter. As the department head, I would like to express my gratitude and extend my warm wishes to all the students and faculty members who have contributed their valuable efforts to the growth of our department. I am also thankful to the editorial board and students for their commendable work in presenting this issue in a such an professional manner.

Dr. A. L. Vallikannu
Head, ECE



Courses Offered

UNDERGRADUATE

- B.Tech (ECE) - Electronics & Communication Engineering
- B.Tech ECE with Specialization in Electronics Manufacturing Technology

POSTGRADUATE

- M.Tech (ECE) with specialization
- Digital Image Processing
- Embedded & Real Time Systems
- M.Tech. Defence Technology (Communication Systems & Sensors)

Facilities Offered

Our department provides laboratory facilities for a wide range of subjects, including DSP, Computer Networks, Communication Engineering, Microwave Engineering, and Optical Communication. The laboratories are furnished with state-of-the-art electronic devices to enable students to conduct experiments and tests. This aids students in developing their skills in communication engineering, microwave design, and optical design. Additionally, our department offers Centres of Excellence in Underwater Robotics and Communications, Sensors and Process Control, Texas Instruments Innovations, and a DIY Electronics Club.



INDUSTRIAL VISITS



10th February 2023

ICF Visit by 3rd year Students

It is a coach manufacturing company of Indian Railways located in Chennai. ICF is responsible for producing long-distance and suburban coaches for India. 3rd year ECE students were taken to ICF to learn and observe its processes and manufacturing methods.

2nd March 2023

ISRO Kerala Visit by 2nd year Students

2nd year ECE students visited Madras Atomic Power Station, which provides electricity to the southern states of Kerala and Karnataka. In the plant, the students came to know deeply about the nuclear processes that takes place in a power plant.



10th February 2023

MAPS Visit by 1st Year Students

1st year ECE students visited Madras Atomic Power Station, which provides electricity to the southern states of Kerala and Karnataka. In the plant, the students came to know in depth about the nuclear processes that takes place in a power plant.

EVENTS CONDUCTED



02/02/2023

Technical talk on Glimpse of Electromagnetic Fields was conducted on 2nd February 2023 by Dr. S. Ramareddy, Dean & Prof in Rajalakshmi Engineering College. This even was organized by Prof. P. Sankar& M. Kavitha & Dipin Thomas

02/02/2023

Guest Lecture on Career Opportunities and Expectations in Industry was conducted on 2nd February 2023 (AN) by Ms. Archana Rajamanikam. This event was organised by Mr. L. Manoharen & M. Kavitha & Dr. Vasanth Kumar



09/02/2023

Technical talk on Innovations in EMBEDDED SYSTEM and its Real Time Applications was conducted on 9th February 2023 by Dr. Parthiban Rudrapati, CEO- Knowledge Xchange Community & Academic to IT. This event was organized by Mrs. Padma Priya, Mrs. Dipin Thomas & Mrs. Shyamala Devi.



EVENTS CONDUCTED



03-04-2023 & 04-04-2023

ECE department joined with EEE department and conducted the International Conference on Smart Grid and Electric Vehicle ICSGEV 23 on 3rd and 4th April. It was conducted on collaboration with Royal Academy of Engineering and University of Leeds.

International Conference on Smart Grid and Electric Vehicle
 Organized by Department of Electrical & Electronics Engineering
 In Association with Royal Academy of Engineering, UK
 03-04- April 2023

Call for Papers
 The 3rd International Conference on Smart Grid and Electric Vehicle in association with University of Leeds, UK will be held at the Department of Electrical and Electronic Engineering, Hindustan Institute of Technology and Science, Chennai, India. The Conference is hosted by Hindustan Institute of Technology, UK. Papers are invited from computer scientists and the focus is Electrical, Electronics and Artificial Intelligence.

Technical Scope
 Technical papers are submitted on the topics pertaining to the scope of the Conference with articles, but are not restricted to:

<p>Smart Grid</p> <ul style="list-style-type: none"> Smart Sensors and Advanced Metering Infrastructure Energy Management Systems Cyber Security Systems Smart Grid Interoperability and Standards Distributed Microgrids Impact of Smart Grid on Grid Model Energy Resources Applications of AI to Power System Smart grid deployment and demonstration projects Secure Smart System Resilience and Reliability 	<p>Electric Vehicle</p> <ul style="list-style-type: none"> Hybrid and Electric Vehicles Innovations in EV component design EV motor drives and controllers Wiring and cooling systems for EVs Design for manufacturing for EV mass production Range for EV manufacturing Wireless Charging Smart Electric Vehicle Trends in EV deployment
--	---

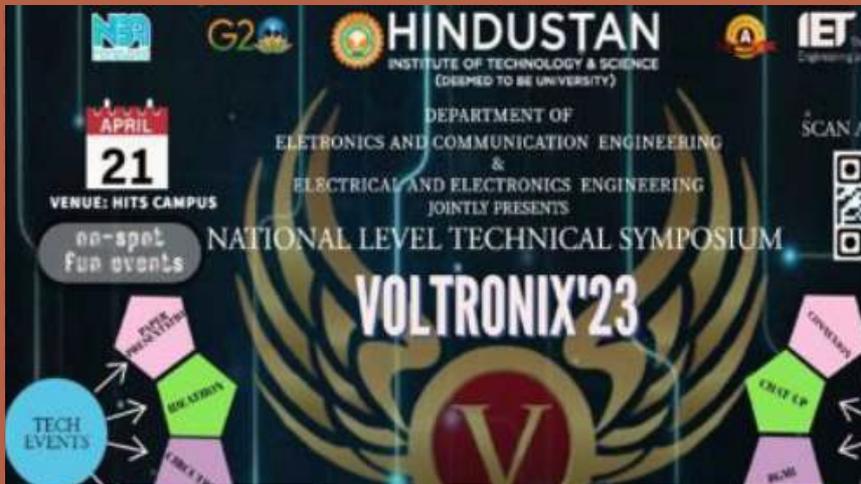
Organizing Chair: Dr. A. S. Fawcett, Professor & Head, Dept. of EEE, IITG.

Organizing Co-Chair: Dr. S. Joseph Anthony, Associate Professor, University of Leeds, UK.

Deadline for paper submission: March 15, 2023
 Notification of Paper Acceptance: March 30, 2023
 Submission of final camera-ready papers: March 27, 2023
 Deadline for author registration: March 31, 2023



UPCOMING EVENTS



VOLTRONIX

21/04/23

A National Level Technical Symposium "VOLTRONIX 2023" will be held on April 21st 2023. This event brings students from various fields and departments to showcase their unique talents, knowledge and collaborate together.



STUDENTS' ACHIEVEMENTS



CONGRATULATIONS!..

**Our Music Team
(Band -EX) Won 2nd
place in Battle of Bands
at NIFT bangalore**

The college band team "Band-EX" won 2nd place in Battle of Bands at NIFT Bangalore. We are proud of our student and friend Allen Jacob from 2nd year ECE department



CONGRATULATIONS!..

**Our Music Team Got Special
Mention in Battle of Bands at
NIFT, chennai.**



Students from 2nd year ECE department participated in 'Combusted 2K23' Quiz competition held at SRM University conducted on 22nd February 2023.



Micheal Joe from 3rd year ECE department participated and won with his team in Basket ball match conducted in SSN college on 14 and 15 March 2023.

Micheal Joe from 3rd year ECE department participated and won runner position with his team in Basket ball match which was held in IIT Chennai in March 2023.



INNOVATION PROJECT EXPO



First-year ECE students recently showcased their innovative projects at the INNOVATION PROJECT EXPO, which was held in February 2023. This event provided a platform for the students to display their creativity and demonstrate their technical skills. The projects included Automatic Vehicle accident alarm system, Automatic Street light controller, water level control system etc. The students' dedication and hard work were evident in the quality of their projects.

FACULTY PUBLICATIONS

S.No	Name Of Faculty	Title	Name of Journal	Month and Year
1	Ciaburro, Giuseppe, Sankar Padmanabhan, Yassine Maleh, and Virginia Puyana-Romero.	Fan Fault Diagnosis Using Acoustic Emission and Deep Learning Methods	Informatics	February 2023
2	Vasanth Kumar Vaithyanathan, Rajinikanth Rajagopalan, Bernad Goyette	A critical review of the transformation of biomass into commodity chemicals: Prominence of pretreatments	Environmental Challenges	March 2023
3	Vahulabalan Rajagopalan, Swetha Venkatraman, Devisri Rajendran, Vaidyanathan Vinoth Kumar, Vaithyanathan Vasanth Kumar, Gayathri Rangaswamy	Acetylcholinesterase biosensors for electrochemical detection of neurotoxic pesticides and acetylcholine neurotransmitter: A literature review	Environmental Research	March 2023
4	Dr. Sankaran, K. Sakthidasan	Design of Reconfigurable Antenna with Defected Ground Structure for Wireless Sensor Network	Wireless Personal Communication	March 2023
5	Dr. Sankaran, K. Sakthidasan, and Bong-Hyun Kim	Deep learning based energy efficient optimal RMC-CNN model for secured data transmission and anomaly detection in industrial IOT.	Sustainable Energy Technologies and Assessments	March 2023

CONFERENCE PRESENTATIONS

S. No	Faculty Name	Paper Title	Conference/ Name	Month and Year
1	Vallikannu, R., K. Kishankumar, B. Vinay Kumar, D. Gopi Raj, and Y. Jaya Chandra Reddy.	Novel method of implementation of solar based smart cycle and solar power consumption prediction using machine learning	AIP Conference Proceedings	January 2023
2	S.Srinivasan, M.Kavitha,G.Vimal arani, L.Manoharan	Implementation of Digital Modulation Techniques in High Speed Modulation	International Conference on Electronics and Renewable Systems	March 2023
3	Dr. M. Rajmohan	FFT implementation of OFDM for future 5G communication	Recent Advancement In Mechanical Engineering And Industrial Management	March 2023
4	Dr. M. Rajmohan	FPGA implementation of the convolution coding method for industrial automation	Recent Advancement In Mechanical Engineering And Industrial Management	March 2023
5	Dr. M. Rajmohan	FIR filter design for advanced audio/video processing applications	Recent Advancement In Mechanical Engineering And Industrial Management	March 2023
6	Dr.M.Rajmohan	Communication using RedTacton Devices for Tourism development	International Conference on Advanced Computing and Communication Systems (ICACCS)	March 2023

INTERNSHIP DETAILS

INTERNSHIP-COMPANIES



VIII-B

1. SWAROOP NAIDU RAJANA - KAAR TECHNOLOGIES
2. G. ABHISHEK REDDY - KAAR TECHNOLOGIES
3. N.VENKATA SUBBAIAH - QMAX
4. VENNA SAI REDDY - COGNIZANT
5. K. NIKHIL VARMA - COGNIZANT
6. NAVALURI SUPRIYA - COGNIZANT
7. YOGESHWARAN- QMAX

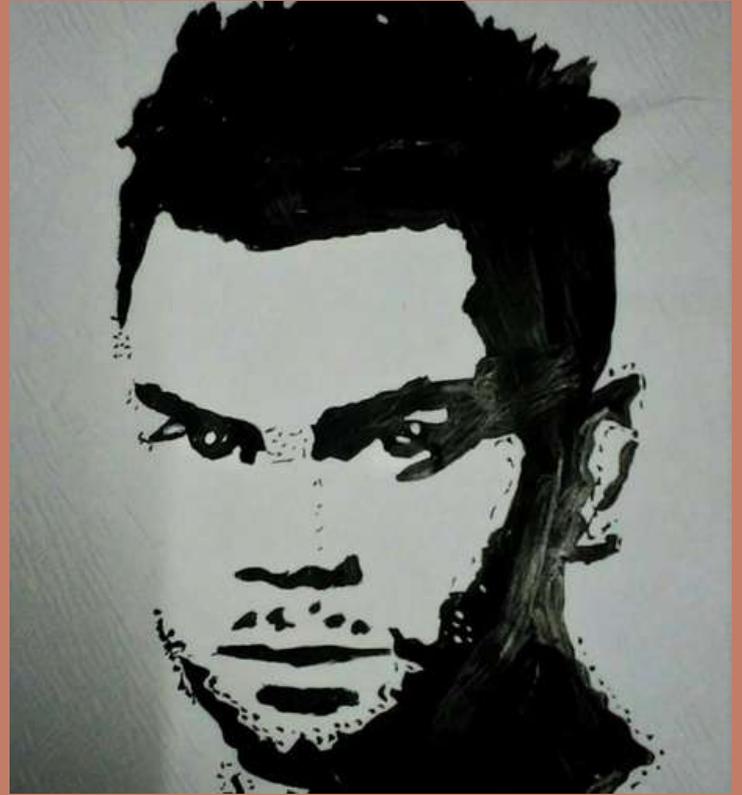
VIII-A

1. B MAHESWAR REDDY - QMAX
2. O LENIN BABU - QMAX
3. K.KIRAN-QMAX
4. B SUNEEL KUMAR REDDY(34) - COGNIZANT
5. S GOPI KRISHNA - COGNIZANT
6. R VAMSI KRISHNA - QMAX
7. B GURUVAMSI - QMAX
8. N VENKATA SUBBAIAH - QMAX
9. M VISHNU PRANEETH - ZOHO
8. SHAIK NIHAL - LISTER TECHNOLOGY (BOUNTEOUS)
9. VIJAY - IPLON
10. RAVI TEJA - IPLON



The students from our department are currently undergoing internships in the aforementioned companies.

STUDENTS' CORNER



ART BY-
RUSHIDAR
IInd year ECE- B- SECTION

EDITORIAL BOARD

FACULTY



Ms. M. Kavitha
Assistant Professor (SG)
Department of ECE



Dr. Prem Shankar Pandey
Asst. Professor (SG)
Technical Editor

STUDENTS



Gokul Prasanna. G
6th Semester
B. Tech ECE



V. Samuel David
6th Semester
B. Tech ECE