



*We Make You Shine*  
**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution)

**St. Joseph's Group of Institutions**

Jeppiaar Educational Trust

OMR, Chennai - 119



Approved by AICTE, New Delhi and Affiliated to Anna University



# **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**NEWSLETTER**  
**VOLUME-16 , JAN-MAY 2023**

**SPARKZ**

# SPARKZ



**Dr.C.Gnana Kousalya M.E.,Ph.D**  
**Professor & HOD**  
**(Staff & Student Affairs)**



**Dr.G.Rohini M.E.,Ph.D**  
**Professor & HOD**  
**(Lab Affairs)**

## VISION

To come forth as an eminent department in the field of electronics and communication engineering to foster research in pioneering technologies and engender professionals having technical excellence and ethical values to serve the industry and society.

## MISSION

- **Ingenious** - To provide the best resources in teaching, learning and other educational activities which will train the student to attain his or her fullest potential in the field of Electronics and Communication Engineering.
- **Technical Excellence and societal development** - To inculcate technical knowledge, appraise leadership qualities, team work and ethical practices in students so as to meet the expectations of the industry as well as the society.
- **Skill Enhancement** - To organize exclusive courses, conferences, seminars on the current technological developments that imparts knowledge in pioneering technologies which will be an added benefit for bringing out the various talents in the students and faculties.
- **Industry Interaction** - To uphold connectivity with industries to get on par with the recent technologies, consequently as to progress as center of excellence in research.
- **Career Guidance** - To foster career improvement through placements, higher education, research and entrepreneur skills by continuous training and guidance.

# WORKSHOPS



The Department of Electronics and Communication Engineering of St. Joseph's Institute of Technology conducted IEEE Sponsored two days student workshop "Hands on workshops in Internet of Things" by Pantech eLearning, Chennai on 9/3/2023 and 10/3/2023. A total of 120 students from II and III year ECE Students were benefitted out. The Workshop was very informative and thought provoking with real time examples with hand on training session. The trainer explained about the explained about IoT Essentials, Introduction to IoT , M2M Application Key Elements of IoT Environment (Hardware), Key Elements of IoT Environment (Software), IoT Design Methodology, Network Basics, 7 layers of Network, IoT Communication Basics such as ZIGBEE, BLE, RFID , Wi-Fi, NFC , Setting UP simple IoT Eco system-hands-on, Advanced IoT Techniques - hands on and given training.

# CLUB ACTIVITIES

## Robotics Club:



The **Robotics Club** involves the student community who derive pleasure in creating robots that may even be potent to work without human intervention. The Robo Club Members developed projects like Edge Detecting Bot, Line follower Bot, Self-Balancing bot, Serving Bot, and Entertaining Bot. The Robotics club comprises of a total of **245 students** from various departments such as Mechanical, CSE, ECE, IT, ADS, EEE, and MBA.

## HARDWARE HACKATHON Club:

The Innovative Hardware Hackathon Club Conducted by the department of ECE on **17th February 2023** and **8th March 2023**, for II, III & IV Year students and 20th March 2023, for I year students, during even semester. More than **45 students** actively participated were they were given few problem statements were they came up with some of the most creative.



## ELECTRONICS AND ROBOTICS CLUB:

**Electronics and Robotics Club** is the student run organization that strives to impart enthusiasm and passion for electronics & robotics and allied fields among students of **ECE** on **21st March 2023** for II nd year students,during even semester.More than **130 students** actively participated in this program.



# GUEST LECTURE

**Year : III ECE**

**Topic : The World on 9 th Feb 2025**

**Resource Person: Mr.Raghavan Sridhar,  
Senior Manager, R&D Ericsson.**



**Year : III ECE**

**Topic : Recent Trends in Computational  
Techniques using Microprocessor**

**Resource Person: Dr.Somashekar  
S.Hiremath, Associate Professor, IIT  
Chennai.**

**Year : II ECE**

**Topic : Indian Tsunami Warning  
System**

**Resource Person: Dr.Tata Sudhakar,  
Scientist, NIOT, Chennai.**



**Year : II ECE**

**Topic : Reconfigurable Computing**

**Resource Person: Dr.Noor Mohammed, Professor,  
IIITDM, Kanchipuram**

**Year : II ECE**

**Topic : Recent Trends in Communication Technologies**

**Resource Person: Dr.M.D.Selvaraj, Professor, IIITDM,  
Kanchipuram.**



# Industrial Visit



S. No	Year/ Section	No. of Students attended	Name and Address of the Company	Date of Visit	Staff Accompanied	Objective of the Visit
1	III ECE A	43	Titan, Hosur	11/02/23	Mr.J.Bino Mrs.Maria Christina Blessy	To learn the automation of electronics in Watch manufacturing.
2	II ECE A	62	NIOT, Chennai	24/02/23	Dr.M.Senthil Murugan Mrs.B.Sreedevi	To study the remote sensing Techniques in Ocean Technologies
3	II ECE B	63		Mr.Rahul Dr.S.Tephillah		
4	II ECE C	62		17/02/23	Mr.D.Suresh Dr.B.P.Bhuvana	
5	II ECE C	63	ISRO, Sriharikota	28/02/23	Dr.M.Samayaraj Murali Kishanlal Dr.B.P.Bhuvana	To learn about Satellite launching procedure and function of control room.

## STUDENT CHAPTERS



The IEEE Student Branch of Electronics and Communication Engineering department in St. Joseph's Institute of Technology conducted Three days IEEE International women's day Webinar Series. A total of **120 students** from II and III year ECE Students were benefitted out. On day 1 is conducted with seminar on "Opportunities in IEEE-WIE" handled by **Dr Soma Prathibha**, Associate Professor, IEEE CS-SBC Chapter Advisor on **7/3/2023**. The Second day event was about "Journey of career women" handled by **Dr. D.Vydeki**, Ex Chair person IEEE WIE-MAS Section, on **8/3/2023**. The Third day events were seminar about "Women in Technology" **Mrs. M.Benisha**, Assistant Professor, ExCom Member, IEEE MAS Section on **9/3/2023**.

# STAFF FDP

## Department of Electronics and Communication Engineering

### STAFF FDP (December 2022 – April 2023)

S.No	Staff Name	Designation	FDP/Workshop Name	Organizer Details	Dates	Duration
1.	Dr. C. Gnana Kousalya	Professor	Design and Development of Industry Led Curriculum in Technological Era	AMET University, Chennai.	14-12-2022 to 22-12-22	9 days
2.	Dr. G. Rohini	Professor	Design and Development of Industry Led Curriculum in Technological Era	AMET University, Chennai.	14-12-2022 to 22-12-22	9 days
3.	Dr.P.G.V.Ramash	Professor	Innovative VLSI Physical Design using Innovus	SIMATS School of Engineering, Chennai	09.01.22 to 13.01.22	5 Days
4.	Dr. G.S. Uthayakumar	Associate Professor	Diverse Applications of Research Paradigms in AI	AICTE ATAL	5.12.22 to 16.12.22	10 Days
5.	Mr.D.Suresh	Assistant Professor	Innovative VLSI Physical Design using Innovus	SIMATS School of Engineering, Chennai	09.01.22 to 13.01.22	5 Days
6.	Mr. V.Raghal	Assistant Professor	Innovative VLSI Physical Design using Innovus	SIMATS School of Engineering, Chennai	09.01.22 to 13.01.22	5 Days

## MEMORANDUM OF UNDERSTANDING



RETECH Solutions PvtLtd. Chennai ECE department has signed MoU with RETECH Solutions Pvt Ltd. by **Mr.E.Arunkumar**, M.E (PhD), Vice president, RETECH Solutions Pvt Ltd Chennai. The objective of the company is to arrange industrial visit and project guidance for our students. Through this **MoU Guest lectures**, workshops, seminars and value-added course has been conducted.

S. No.	Name of the Organization	Date of MoU	Valid Till
1.	MIT Square Group of Companies	28-12-21	27-12-26
2.	Asimov Global Technologies	08-02-21	07-02-25
3.	CII- TITAN Model Career Centre	19-07-18	Lifelong
4.	TANSTIA	25-07-18	Lifelong
5.	INTERNSHALA	Lifelong	
6.	PANTECH PROLABSINDIA Pvt. Ltd, Chennai	08-12-22	07-12-27
7.	RETECH Solutions Pvt Ltd.	08-12-22	07-12-27

# ACHIEVERS



Won **First place** in Project competitions with **Rs.8000/-** Cash prizes, Trophy and certificates in **VISAI 2023 – 13 th International Project Competition** held on **24 th February 2023** under the theme of Industry, Innovation and Infrastructure organized by **Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology**, Avadi, Chennai, in Collaboration with the Indian National Commission for Co - operation with **UNESCO(INCCU)**.

**Project Mentor:** Dr. C.Gnana Kousalya Professor & Head – ECE (Staff and Student Affairs)

**Project Title:** Surveillance and Protection Operation Technique



NO	NAME	YEAR	EVENT	COLLEGE	PLACE WON	DATE
1. 2. 3.	Ganesh V Shyam H Ashwanth Raj	III	B-Plan	E-Summit'23, IIT Bhubaneshwar, Odisha	III (Rs.3000)	3/2/2023 to 5/2/2023



# PRIZE WINNERS

## II YEAR:

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	Michael Arul Abel J	VISAI 2023 International Project Competition	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	I
2.	Venkata Krishnan R S	VISAI 2023 International Project Competition	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	I
3.	Bharath Krishna S	Constellation	Velammal Engineering College, Chennai	I
4.	Deepak Darshan S	Constellation	Velammal Engineering College, Chennai	I
5.	Gibson Daniel E	Constellation	Velammal Engineering College, Chennai	I

## III YEAR:

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	Ashwanth Raj D	B-Plan	E-Summit'23, IIT Bhubaneswar, Odisha	III
2.	Ganesh V	B-Plan	E-Summit'23, IIT Bhubaneswar, Odisha	III
		VISAI 2023 International Project Competition	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	I
3.	Fenin B S	Circuitronics	Velammal Engineering College, Chennai	II
4.	Nithin C	Arduino/Raspberry PI Hackathon	Sri Ramakrishnan Institute of Technology	I
		Line Following ROBOT	Sri Ramakrishnan Institute of Technology	II
		Circuitronics	Velammal Engineering College, Chennai	II
		VISAI 2023 International Project Competition	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	I
5.	Venkatesh T	Cross word	SRM Valliammai Engineering College	II
6.	Mohan Raj G	Battle of Code	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	II

7.	Shyam H	B-Plan	E-Summit'23, IIT Bhubaneswar, Odisha	III
		VISA I 2023 International Project Competition	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	I
8.	Jegadesh Muthu B	Battle of Code Mohan Raj G	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	II
9.	Pranav Charan V	Connexion	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	I
10.	Kishore kumar K	Connexion	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	I
11.	Joshuva Brighton E	Connexion	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	I
12.	Nishanth N	Arduino/Raspberry PI Hackathon	Sri Ramakrishnan Institute of Technology	I
		Line Following ROBOT		II
13.	Nishanth V	Arduino/Raspberry PI Hackathon	Sri Ramakrishnan Institute of Technology	I
		Line Following ROBOT		II
14.	Ragul P	Arduino/Raspberry PI Hackathon	Sri Ramakrishnan Institute of Technology	I
		Line Following ROBOT		II
15.	Srivarsha S	Pitch Perfect	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	I
16.	Prem sagar S	Code-A-Thon	Dhaanish Ahmed College of Engineering	II
17.	Muhammed Javid H	Code-A-Thon	Dhaanish Ahmed College of Engineering	II
18.	Mohamed Safeeq S	Debugging	SRM Valliammai Engineering College	II
19.	Swethaa Sri B	Circuit Trix	SRM Valliammai Engineering College	II
20.	Rashika K	Circuit Trix	SRM Valliammai Engineering College	II
21.	Sivapriya P S	Circuit Trix	SRM Valliammai Engineering College	II
22.	Kamalesh V	KP Squad	St. Joseph's College of Engineering	I
23.	Priyanka J	KP Squad	St. Joseph's College of Engineering	I
24.	Sathish kumar J	Thunderbolt	St. Joseph's College of Engineering	II

## IV YEAR:

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	Sidharthan Srinivasan	Project Expo	St.Joseph's College of Engineering	I
2.	Uvashree.R	International Conference on Digital Archiving and Presentation on Cultural Heritage of India	AMET Univeristy, Chennai	Paper Presented (Scopus)
3.	Archana.A	International Conference on Digital Archiving and Presentation on Cultural Heritage of India	AMET Univeristy, Chennai	Paper Presented (Scopus)
4.	Mohamed Irfan A	Student Project Scheme under Science, Engineering & Technology	Tamil Nadu State Council for Science and Technology (TNSCST) 2022-2023	Received the grant of Rs.7500/-
5.	Louis Santosh K	Student Project Scheme under Science, Engineering & Technology	Tamil Nadu State Council for Science and Technology (TNSCST) 2022-2023	Received the grant of Rs.7500/-

## CLUB COMPETITION WINNERS:

### Prize Winners List:

#### Innovative Hardware Hackathon Club Competition - 8/3/2022

SL No	Name of the Event	I Prize(Rs.500)	II Prize(Rs.300)	III Prize(Rs.200)
		Name of the Student	Name of the Student	Name of the Student
I	Hardware Hackathon	Huldha Y D (III ECE) Priscilla Hebzibha D (III ECE)	Gowtham B(II ECE) Abdul RahmanM(II ECE) Dharnesh R(II ECE) Bharath Krishna S(II ECE)	Naveen M (II ECE) Jeevahan A (II ECE) Nithish V J (II ECE)



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## Department of Electronics and Communication Engineering

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### Staff Editors

**Mr.D.Suresh M.E(Ph.D)**  
(Assistant professor)

### Student Editors

**Ms.Elakkiya S P**  
(III YEAR)  
**Ms.Ramya Sri V**  
(III YEAR)