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St. JOSEPH'S COLLEGE OF ENGINEERING
 (An Autonomous Institution)
 St. JOSEPH'S GROUP OF INSTITUTIONS
 OMR, CHENNAI - 119



NEWSLETTER



We prepare for



DEPARTMENT OF EIE- OCT '24

OUR PATRONS



Dr. B. Babu Manoharan

M.A.,MBA.,Ph.D

Chairman



Mr. B. Shashi Sekar

M.Sc.,INTL.Business

Managing Director



Mrs. S. Jessie Priya

M.Com

Executive Director



Dr. Vaddi Seshagiri Rao

M.E.,M.B.A., Ph.D

Principal

VISION:

To make every student of the department irrespective of his/her social, cultural background and learning abilities gets a fair chance in mastering the various fields of Electronics and Instrumentation to become a proficient individual for the empowerment of society.

MISSION:

- To Prepare students to understand recent technologies in Electronics and Instrumentation Engineering effectively and adapt themselves in an ever-changing environment.
- To impart excellent computing knowledge to students by providing well equipped facilities and state of the art systems.
- To prepare students with excellent leadership skills, management capabilities and ethical understanding for successful career.

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- *Training on JAVA & DATA STRUCTURES*
- *INNOVATEX '24*
- *Alumni talk*
- *Career Guidance Meeting*
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TRAINING ON JAVA & DATA STRUCTURES

A focused training program on Java programming & Data structures was organized respectively for final-year students and third year students of Electronics and Instrumentation Engineering to enhance their coding skills for upcoming campus placement opportunities. Conducted over 6 days, the program aimed to equip students with practical knowledge of Java , a widely-used language in the software industry and Data structures ,the most sought technical skill in software industry especially for development roles in leading technology companies.

The training sessions included a blend of theoretical understanding and hands-on exercises to enable students to grasp Java concepts effectively. The course began with an overview of Java's syntax, data types, and control structures, ensuring that students understood the language's foundational principles. Progressively, the modules covered advanced topics such as object-oriented programming (OOP) principles, exception handling, file management, and multithreading. Similarly the training on data structures introduced essential data structures like arrays, linked lists, and trees, which are commonly encountered in technical interviews.

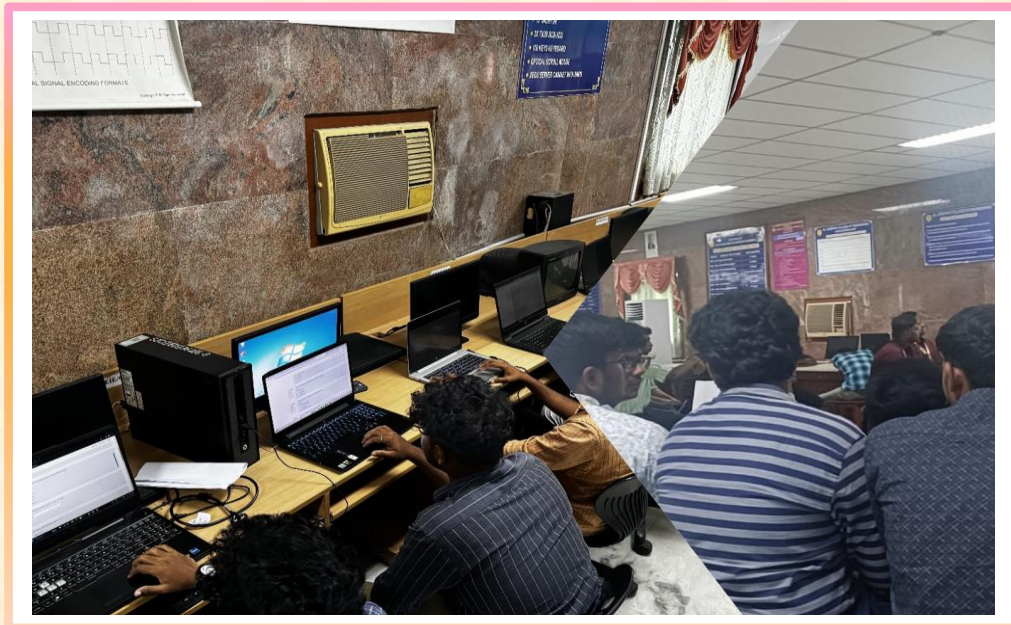
To reinforce learning, daily coding exercises and mock tests were conducted, designed to simulate real-time problem-solving scenarios frequently encountered in placement interviews. Special emphasis was given to debugging and code optimization techniques, as these skills are critical for developing efficient applications. The sessions included group projects where students collaborated to develop small Java applications, encouraging teamwork and collaborative problem-solving—skills highly valued in corporate environments.

To enhance the training experience, problem-solving sessions were organized towards the end of the program. Instructors evaluated the students on their problem-solving approach, coding accuracy, and speed. This experience allowed students to familiarize themselves with interview dynamics and receive constructive feedback, helping them to identify and work on areas of improvement. Additionally, instructors provided specific tips on how to approach

Java-centric questions and the approach towards questions on data structures that frequently arise in campus placements.

Feedback from participants was overwhelmingly positive. Students appreciated the structured curriculum and practical approach, which helped boost their confidence in Java programming. Students from third year expressed that they felt more prepared and motivated for the technical rounds in data structures of their upcoming campus placements.

The program successfully bridged the gap between academic knowledge and industry requirements, equipping students with essential skills to secure roles in the software domain. Overall, the Java programming & data structures training program proved to be an effective step toward preparing Electronics and Instrumentation students for a promising career in the tech industry.



INNOVATEX' 24

To ensure the future generation of budding engineers to showcase their talents through ideas and innovation the department of EIE had conducted an Inter College Project Expo on October 26, 2024 in collaboration with International Society of Automation(ISA). The expo focused on sustainable innovations.

16 teams had registered and 11 teams (5 Colleges) had been shortlisted based on the uniqueness and feasibility of the projects. The colleges that had participated in the event are SRM (Ramapuram), SRM (Kattankulathur), Sairam Engg College and Sairam Institute of Technology and St Joseph's Institute of Technology.

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DEPARTMENT OF
ELECTRONICS AND INSTRUMENTATION ENGINEERING
in association with
ISA STUDENT CHAPTER
PRESENTS
INNOVATEX' 24
(A PROJECT EXPO)

SESSION 1
WORKSHOP ON "IOT ANALYTICS WITH THINGSPEAK" (ARDUINO AND RASPBERRY PI)

SESSION 2
PROJECT EXPO

SCAN THIS TO REGISTER

DATE : 15th October 2024
TIME : 8:00 AM - 3:00 PM
VENUE : PROCESS CONTROL LAB

PRIZE POOL
Rs. 6000/-

Certificates will be provided to the Participants

GUIDELINES

- 2-4 Members per team.
- Projects may be of any domain. (Hardware and Software)
- The decision of the Jury Members will be final.

For More Details, Contact:
9159552718
7338750152

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The Choice of
Disciplined Topper

Dr C N Gnanaprakasam, and Mr D Sanakran were the jury members and they scrutinized the projects based on its innovation, presentation and its feasibility.

The department of EIE congratulates the winners. The winners are from SRM Kattankulathur and Sri Sairam Engg college.



Participants expressed positive feedback about the competition, highlighting the opportunity to think critically about the role of instrumentation in modern technology. Many noted the value of engaging in a practical project that enhanced their design skills.

The winners are

S. No	Team Name	Team Members Name	College Name	Project Title	Place Secured
1.	Beginners	Hanushika Selvakumar Pavithra Yogavanitha Karan Reddy	SRM Institute of Science And Technology Ramapuram	Raspberry Pi: Smart Plant Care System With Ai Integration	I
2.	Dream Weavers	Gokul Krishnan G Santhosh P	SRM Institute of Science And Technology Ramapuram	Home Automation using IoT	II
3.	Sparkle	Nemamalini E Avantika S	Sri Sairam Engineering College	AI Powered Real Time Traffic Management System	III

CAREER GUIDANCE MEETING

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Department of
Electronics and Instrumentation Engineering
Organises
Career Guidance Meeting

Exclusive
for
III EIE
Parents

Key Takeaways:
NPTEL Certification
Employability Courses
PEP Programs

14-October-2024
08:00am-03:00pm

Process Lab

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The Choice of
Disciplined Topners

A **Career Guidance Meeting** is an event that provides students or participants with insights into various career paths, educational requirements, and strategies for achieving their professional goals. These meetings aim to help attendees make informed decisions about their careers, plan for the future, and understand the skills needed in today's evolving job market.



Our college organized a career guidance meeting on Oct 14, 2024 exclusive for parents of III Year EIE Students. The objective of the meeting is to enlighten the parents about the employability courses that cater to the current job scenario and various steps taken from our side regarding the placement and internship opportunities along with their wards' performance appraisal. Out of 64 students, parents of 30 students have attended the meeting on various days and the feedback from them is overwhelming.

ALUMNI TALK

Ms Jhansi, Process control Engineer shared her expertise about the opportunities in Instrumentation industries particularly in Process Instrumentation. She shared her invaluable expertise and the various avenues available for professionals and entrepreneurs. The speaker made the young minds to explore the diverse range of opportunities spanning technology, and corporate setups.



The Alumni Talk on Process Instrumentation was a truly enlightening and enriching experience for all attendees. Through thought-provoking presentations, lively discussions, and compelling real-world examples, participants developed a profound understanding of the transformative power inherent in latest technology. The Key highlights of the event were provided the insights into process fundamentals, their applications, and opportunities for Instrumentation engineers. The session ended up with a case study and Q & A session.

This event was a resounding success, fulfilling its objectives of encouraging teamwork, problem-solving, and interaction among students. The event strengthened bonds between the senior and junior community. The organizing team's efforts were highly praised by the participants of the event.

STUDENT ACHIEVEMENTS

To enhance students' technical knowledge and to empower them our college regularly conducts hardware and software hackathon in a month. In the month of October, Software hackathon, Innothon'24 was conducted by the Department of ADS, St Joseph's Institute of Technology and Nextronix'24 was conducted by the Department of ECE, St Joseph's College of Engineering. In Innothon'24 1 team from EIE has been participated.

In Nextronix'24, among the registered 162 teams, 40 teams have been shortlisted in which 2 teams are from final year EIE. Thus among the 162 teams our final year EIE, Jayasruthi & team has secured III place in the hardware hackathon. The "Aqua Fit Trainer" modelled by her team was widely appreciated by the jury members. The team has received an amount of 3000 as a token of appreciation.

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Department of
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Congratulations

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NEXTRONIX '24
October 18 & 19, 2024

Cash Prize Amount
Rs.3,000

Team Members
JAYASRUTHI S
ARUN KUMAR K
SURYA KUMAR R
VISHNU VARSHAN A

Mentors: Dr.S.Meena
Dr.B.Senthil Kumar

Problem Statement:
**Revolutionizing Swimming Training
with IoT-Powered Touch Pad Timing**

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NEXTRONIX'24 24 HOUR
INTERNAL HARDWARE HACKATHON

**THIRD PRIZE
Rs. 3,000/-**

TEAM NAME
AQUA FIT TRAINER

WINNERS - IV EIE
VISHNU VARSHAN A | ARUN KUMAR K
SURYA KUMAR R | JAYASRUTHI S

MENTORS
Dr. S. MEENA ASSOCIATE PROFESSOR & HEAD (EIE)
Dr. B. SENTHIL KUMAR ASSOCIATE PROFESSOR (EIE)

PROJECT TITLE
**REVOLUTIONIZING SWIMMING
TRAINING WITH
IOT-POWERED TOUCH PAD TIMING**

FOR DETAILS
99401 04881
9940104882
www.stjosephs.ac.in
www.stjosephstechnology.ac.in





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St. JOSEPH'S
INSTITUTE OF TECHNOLOGY

PLACEMENTS

Placements are a crucial aspect of education and career development, providing students and job seekers with opportunities to gain practical experience in their chosen fields. This process typically involves internships, co-op programs, or job placements that allow individuals to apply their academic knowledge in real-world settings.

Out of 54 students 47 students are eligible for placement drive and so far 9 students have got their offers in 4 different MNCs. The students who have got their offers, so far are

S.No	Name of the Student	Name of the MNC
1.	Vedha Shri S	
2.	Srivathsan S K	
4.	Arunkumar K	
5.	Srivathsan S K	
6.	Navneeth R	
7.	Pooja Sri A	
8.	Vishnu Varshan A	
9.	Samyuktha B	
10.	Karthick Raja B	



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Congratulations



VEDHA SHRI S

For getting placed in



CTC : 5 LPA

2021-2025 Batch



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Arun Kumar K



Navneeth R



Srivathsan S K

Placed Students @ **Accenture**

2021-2025 Batch



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Department of Electronics and Instrumentation
Engineering

Congratulations



Karthick Raja B



Pooja Sri A



Samyuktha B



Vishnu Varshan A

Infosys
Placed Students

2021-2025 Batch

CTC 3.6 LPA



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STAFF ACHIEVEMENTS

BOOK CHAPTER PUBLICATION:

Sl. No	Authors	Title & Year	Name of the Book	Vol.& Issue	Type
1	K. Poojashree, S. Meena, C. Celsiya	A Comparative Study and Analysis on ML Algorithm for Defective Package Detection System With Quantum Networking Integration	Quantum Networks and their applications in AI	2024 P.No:80-97	Scopus

PATENT PUBLICATION:

S. No.	Country& Patent No.	Name of the Inventor(s)	Title	Date of Filing of Patent	Date of publication
1	Indian 202441071600	1)Ms.Arelli Shruthi 2)Dr.M.Sadees 3)Mr.Akula Trinadha Rao 4)Dr.V.R.Seshagiri Rao 5)Mrs.D.V.N. Bharathi 6)Prof.M.Uma Devi 7)Dr.P.Deepa 8)Dr.D.Rajendra Prasad 9)Mr.M.Sreedhar 10)Mrs.Devi.G	A SYSTEM FOR VLSI LAYOUT OPTIMIZATION IN CONNECTED AND PYRAMID NETWORKS USING DEEP LEARNING	22/09/2024	04/10/2024
2	202411051101	1)Dr. Laxmi 2)Dr. T.V.N.Padmavathi 3)Dr Venu Shree 4)Dr. Saravana Bavan 5)Dr.J.Dafni Rose 6)Dr. S Meena 7)Dr. D. Rajiniginath 8)Dr.R.Karthick	ECO-CONSCIOUS RECYCLABLE ARECA LEAF PLATES AND PACKAGING FOR FOOD SERVING OPTIMIZED WITH MACHINE LEARNING	03/07/2024	04/10/2024