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St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119



DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING



NEWSLETTER – EIE -APR 2024

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.*

SEERA CLASS

SEERA Classes for II year has been planned to be conducted on Friday of every week.

This month's SEERA classes had been conducted on 05.04.2024 on and on 25.04.2024



On 05.04.2024 it was conducted for second years on the topic "Python Programming". It is a pen and paper based test. The students were given three sets of question paper in which the first one is an objective type; the second and third one is "Spotting errors and finding output". The entire set of second years were the beneficiaries.

Followed by the test, there was a discussion on Keys for the given questions. given. Additionally, the presentation highlighted the applications of Python in industry 4.0 and its future requirements.

On 25.04.2024 it was conducted on 5 different categories for II YR EIE students. That is the students were categorized into 5 groups.

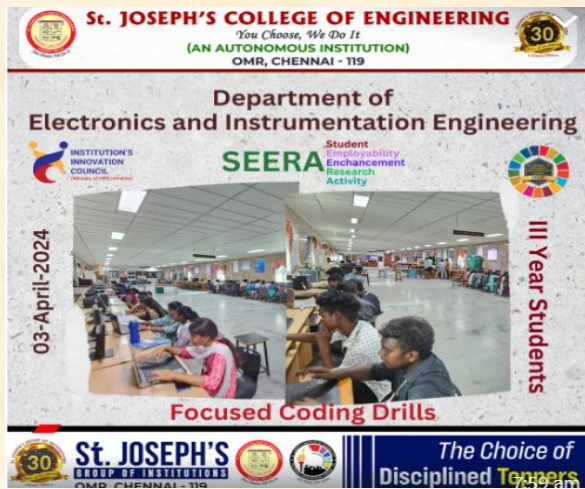
A group of 38 students were trained on the topic "MATLAB for Instrumentation Engineers". The students were exposed about various MATLAB tools and the dedicated toolboxes for the instrumentation systems.

Another group of 10 students were trained for GATE and IELTS. Third more groups sized 10 was trained for enhancing communication skills. The fourth was trained in their current subjects for improvement in their University results.



SEERA CLASS III YEAR

The 3rd year EIE (Electronics and instrumentation) students attended the SEERA CLASS on 03.04.2024. During the session they have solved various modules in Skill Rack, Leet Code, hacker rank and various online coding platforms.



Each session has been a voyage of growth, from mastering intricate algorithms to refining our problem-solving skills. Collaborating with peers has boosted our communication and teamwork abilities.

Students of 3RD year EIE focused themselves into data structures and problem-solving techniques. They have taken up complex coding challenges by showing up their skills in languages like Python, Java, and C++. Concepts of dynamic programming and data structures have been learnt by them through rigorous coding practices. Moreover, students learned to collaborate effectively, debug efficiently, and optimize code for performance. This immersive experience equipped them with the expertise needed for real-world coding scenarios.



Through rigorous practice, our coding prowess has been sharpened, giving us the confidence to tackle challenges head-on. In essence, this experience has been transformative, furnishing us with indispensable tools for success in the programming realm.

ALUMNI TALK- COMPUTER VISION

The alumni talk on Computer vision was held on April 4, 2024 with the aim of exploring the opportunities in the field of Robotic vision, computer and Machine vision technology.

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Department of
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ALUMNI TALK
Computer Vision
Career Guidance

Ms. Kaviya Subramanian
Computer Vision Engineer (AI/ML)
Econ Systems, Chennai.

04/04/2024
10am-11:30am

Process Control Lab

Batch: 2016-2020

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The Key highlights of the event were provided the insights into computer vision fundamentals, their applications, opportunities for Instrumentation engineers. The session ended up with a case study and Q & A session.

The Alumni Talk on Computer Vision 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 computer vision technology.

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ALUMNI TALK
Ms. Kaviya S
Computer Vision Engineer
Econ Systems
Batch: 2016-2020

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The speaker elaborated on the myriad applications of computer vision across industries such as healthcare, automotive, retail, and beyond.

Real-world examples demonstrated how this technology is enhancing processes, improving efficiency, and driving innovation.

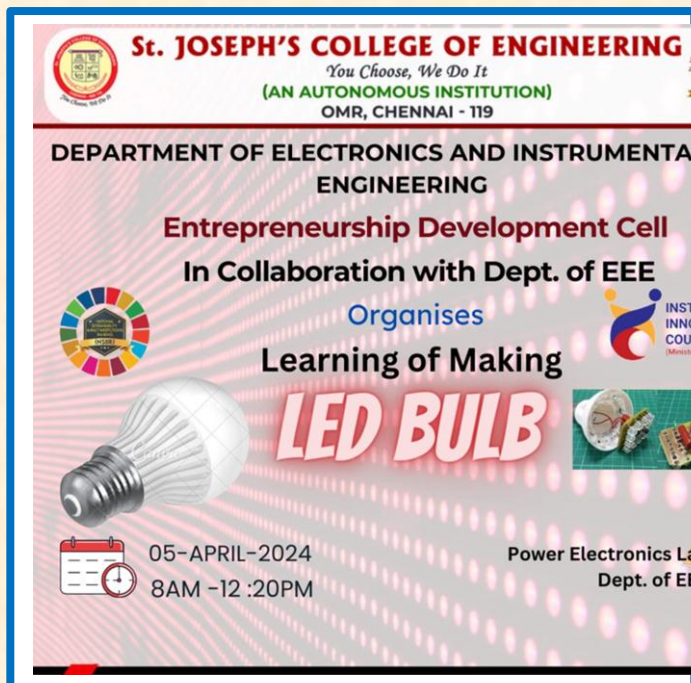
EDP – LEARNING THE MAKING OF LED BULB

“Learning the Making of LED Bulb” workshop was conducted by the Department of Electronics and Instrumentation Engineering in association with Entrepreneurship Development Cell of EEE department on April 5, 2024. The attendees were second and third year students of EIE.

In recent years, LED bulbs have emerged as a revolutionary lighting solution, offering energy efficiency, longevity, and versatility. Making LED bulbs is not only a fascinating process but also a practical skill with significant environmental and economic benefits. This guide will delve into the intricate yet rewarding art of LED bulb making, from understanding the components to assembling your own luminous creations.

The event was led by experienced instructors. The workshop commenced with an introduction to LED technology, its applications, and the importance of entrepreneurship in the field of self-employment. The students were then guided through the step-by-step process of assembling LED bulbs, including selecting appropriate components, soldering techniques, and testing procedures.

Overall, the workshop was a resounding success, equipping the participants with practical experience and entrepreneurial mind set is crucial not only for their future endeavours in the industry but also for the future prospectus of our nation.



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Entrepreneurship Development Cell
In Collaboration with Dept. of EEE

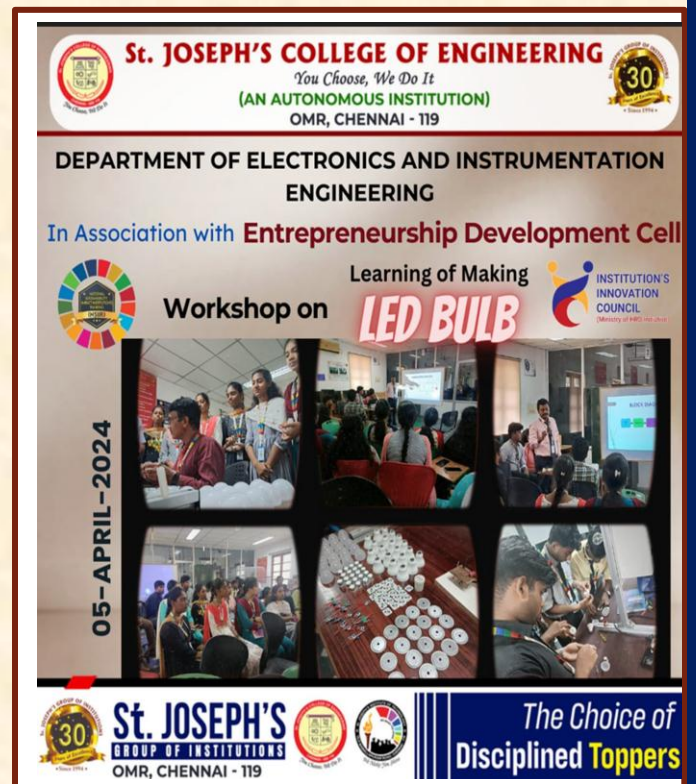
Organises

Learning of Making
LED BULB

05-APRIL-2024
8AM -12 :20PM

Power Electronics Lab
Dept. of EEE

The poster features a central image of a white LED bulb and a smaller image of a person working on a circuit board. It includes logos for the college, the department, and the Entrepreneurship Development Cell.



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

In Association with **Entrepreneurship Development Cell**

Learning of Making
LED BULB

Workshop on

05-APRIL-2024

The poster includes a collage of six photographs showing students participating in the workshop, working on circuit boards, and handling components. It also features logos for the college, the department, and the Entrepreneurship Development Cell.

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MOCK INTERVIEW



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Department of Electronics & Instrumentation Engineering

INSTITUTION'S INNOVATION COUNCIL
(Ministry of IITD - Institute)

MOCK INTERVIEW
By Alumni

MS. M. VEENA
Business Analyst,
Sanmina IT Tech Services

15 April 2024
10am - 11am

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MOCK INTERVIEW

15 April 2024

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On April 15, 2024, the department has arranged mock interview for the second year students. In the mock interview the students demonstrated their communication skills and their technical skills. This report summarizes the observations made during the visit of our Alumni Ms. Veena, Business Analyst, Sanmina IT tech services on 15/04/2024 from 9:00 AM to 3:00 PM.

Veena is a dynamic individual with a passion in finance and marketing always embraces new opportunities and tackles challenges in an intellectual way. She is well known for her relentless curiosity and perseverance in achieving her goals. With her experiences, she effectively highlighted the students' strengths and accomplishments.



ALUMNI TALK

JOB OPENINGS IN SILICON VALLEY



Mr . Jessil Bijou ,Data center Engineer in Nvidia shared his expertise about the opportunities in Silicon Valley.

The talk on "Opportunities in Silicon Valley" provided valuable insights into the dynamic landscape of the tech hub and the various avenues available for professionals and entrepreneurs. The speaker(s) discussed the unique ecosystem of Silicon Valley, emphasizing its role as a global epicenter for innovation and entrepreneurship. They explored the diverse range of opportunities spanning technology, venture capital, startups, and corporate innovation.

His talk was mainly centered on the topics like innovation ,enterprenral spirit, talent magnet ,venture capital.He also pointed out the key insights about successful startups and entrepreneurs in the competitive market. Attendees were encouraged to further explore opportunities in Silicon Valley through networking events, industry conferences, and online resources. Additionally, they were advised to leverage educational programs and mentorship opportunities to enhance their skills and increase their competitiveness in the job market or startup ecosystem.

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
Job Openings In Sillicon Valley
Mr. Jessil Bijou
Data Centre Engineer
Nvidia
Batch : 2016 - 2020
Santa Clara, California

26/04/2024
9:40Am to 11:00Am
Process control lab

Alumni Talk

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TECHNICAL QUIZ

The technical quiz held on 06.04.2024 at Process Control lab saw enthusiastic participation from 54 students of II Year. The quiz covered a wide range of topics, including but not limited to basic electronics and transducer engineering, testing the knowledge and problem-solving skills of the participants. The participants showed a grasp of technical concepts, particularly in areas of basic electronics and transducer engineering. The quiz provided a platform for networking and knowledge exchange among participants ,fostering a collaborative environment. The quiz witnessed intense competition with participants displaying impressive problem solving abiliites and quick thinking.



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NGO VISIT



On 06th April 2024, a group of engineering students from St. Joseph's College of Engineering visited the Annai Bhartha Matha Educational and Charitable Trust, an NGO dedicated to providing educational and charitable support to underprivileged communities. The purpose of the visit was to engage with the activities of the NGO and explore opportunities for collaboration and support.

The Annai Bhartha Matha Educational and Charitable Trust is a non-profit organization committed to improving the lives of disadvantaged individuals and communities through education, healthcare, and social welfare programs. Founded on the principles of compassion and service, the NGO operates various initiatives to empower marginalized groups and promote sustainable development. During the NGO the following activities were conducted. They were serving lunch, music and dance, games and entertainment etc. As we reflect on this volunteer activity, we are reminded of the profound impact that acts of kindness and empathy can have on individuals and communities. By coming together and extending a helping hand to those in need, we can create a more inclusive and compassionate society where everyone has the opportunity to thrive and succeed



STUDENT ACHIEVEMENTS



SYMPOSIUM WINNERS:

The Management, Principal, Faculty members and Students are pleased to congratulate the following students for winning the National Level Technical Symposium, SILICON 2K4 organized by **Sathyabama Institute of Science and Technology**, Chennai on 3rd & 4th April 2024.

S. No	Name of the Students	Year	Event Name	Prize Details
1.	ADITYA RAM N	II Year EIE	ZAPSPEAK (NEXUS 2k24)	2 nd Prize

PLACEMENTS:

With a rich history of innovation and excellence, Siliconz Embedded offers a dynamic environment for professionals seeking to excel in the field of embedded systems and IoT and we are proud to announce that one of our students got placed in Siliconz embedded and an another student got placed in Ediglobe.

S. No	Name of the Students	Name of the company
1.	Manoj kumar	Siliconz Embedded 
2.	Kaviya Dharshini	Ediglobe 





NPTEL ONLINE CERTIFICATIONS

We are delighted to announce that the following students of III YR EIE have successfully completed various NPTEL certification courses in this academic year 2023-2024. Among 8 students, 6 of them are Elite Certified. We are happy to announce our II Yr students have also written NPTEL. However the results are yet to get published.

S.No	Name of the Student	Year	Name of the Subject
1	Surya Kumar R	III EIE	Introduction to Industry 4.0 and Industrial Internet of Things
2	Pradeep Kumar R	III EIE	Fundamental Algorithms Design and Analysis
3	Jayasruthi S	III EIE	Introduction to Internet of Things
4	Balamanikandan B	III EIE	Automation in Manufacturing
5	Pooja Sri A	III EIE	Introduction to Internet of Things
6	Sudharshan	III EIE	Internet of Things
7	Sakthivijayan	III EIE	Internet of Things
8	Sangeetha	III EIE	Internet of Things

One of our students, Surya Kumar R has been selected for internship at IIT Kharagpur. The internship period is for 2 months from May 22 to July 22, 2024. The student is also entitled to receive a salary of 6 K per month.



NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING

A JOINT VENTURE BY INDIAN INSTITUTES OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE

Coordinators

Prof. Andrew Thangaraj
Dept. of Electrical Engg,
IIT Madras

Prof. Vignesh Muthuvijayan
Dept. of Biotechnology,
IIT Madras

Prof. Ramkrishna Pasumarthy
Dept. of Electrical Engg,
IIT Madras

Prof. Niket Kaisare
Dept. of Chemical Engg,
IIT Madras

Date: 03-Apr-2024

Dear SURYA KUMAR R

We are pleased to inform you that you have been selected for the NPTEL Summer Internship 2024 as per the following details:

1. Name of the Professor(s) : Sudip Misra
2. Course offering Institute : IIT Kharagpur
3. Mode of internship : In-person
4. Place of internship : IIT Kharagpur
5. Duration of internship : 8 Weeks
6. Start date : 01-May-2024
7. End date : 26-Jun-2024

Kindly get in touch with the Professor for necessary guidance.

STAFF SPORTS DAY

The Department of Electronics and Instrumentation Engineering (EIE) along with the Department of EEE & CSE has participated under RED ROCKERS in the Staff Sports event held from April 12 to April 17, 2024. Basketball, Football, Kabaddi, Volleyball, Ball badminton, Badminton(doubles), Chess (Singles), Table tennis (Singles) were held for men and Basketball, Throwball, Ball badminton, Badminton(doubles), Chess (Singles), Table tennis (Singles) were held for women. The RED team were emerged as winners under the following categories.

S.No.	EVENT	PLACE
1.	CHESS	I PLACE
2.	KABBADI (MEN)	I PLACE
3.	THROWBALL(WOMEN)	III Place

It is a day dedicated to promoting physical fitness, teamwork, and friendly competition among participants and a great way to encourage a healthy and active lifestyle while fostering camaraderie and sportsmanship among participants.

STAFF ACHIEVEMENTS

STAFF PUBLICATIONS:

S.No	Authors	Title of the paper	Name of the Journal
1	Thendral Natarajan, Lakshmi Devan, Ramaprabha Palayanoor Seethapathy, Senthil Kumar Balakrishnan	A customized ConvNeXt- XL network with fusion of deep and handcrafted features for colposcopy image classification	International Journal of Imaging Systems and Technology

CONSULTANCY WORK:

S.No	Name of the Staff Member	Nature of the Work	Remarks
1	Dr. S Meena	NPTEL TRANSLATION	The transcripts for the video contents that lasts for 5.25 hrs for the subject Digital Logic Circuits has been transliterated into our native language, Tamil.

- **All of our staff members are NPTEL Certified professionals.**
- **Other than NPTEL, 2 among 8 staff members got certifications from the premier Institute, IITM.**

STAFF REWARDS



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Rs. 3 CRORE
STAFF REWARDS

Rs. 1.23 CRORE
(Rs. 71 Lakh + Rs. 52 Lakh)

rewarded to 482 Staff Members for their academic and research accomplishments

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Rewards are like little boosts of motivation that keep us going through life's challenges. Whether big or small, tangible or intangible, they serve as reminders of our achievements and progress.

Every year the staff members are rewarded with cash for their accomplishments in research. This year the staff members are rewarded with 1.23 crores (71 lakhs for the year 2023 and 52 lakhs for 2024). The staff members of the Department of EIE has received Rs. 1, 14,100 rupees as reward for their various academic, research and placement activities such as NPTEL Certifications, Journals and Conferences Publications, Patents Published and Granted , Financial assistance from Professional bodies etc.

TOPPERS

It is beyond doubt that Academic excellence leads to career opportunities and opportunities in higher education that indirectly leads to one's personality development. We take pride in stating that the following II YR EIE students have secured the CGPA of 8.5 and more than 8.5.



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION

STUDENT TOPPERS SECURED 8.5 CGPA AND ABOVE (UP TO III SEMESTER)

BATCH : 2022-26



JAYA PRIYA T
312322107015
CGPA : 9.54



SRINIDHI A S
312322107052
CGPA : 9.08



DHARSHINI SHIVANI B
312322107006
CGPA : 8.83



SRIDHARSHINI M
312322107051
CGPA : 8.81



HANATHIKA T
312322107011
CGPA : 8.78



PAVITHRA V
312322107031
CGPA : 8.74



SIJO DEVASSY V J
312322107047
CGPA : 8.72



PRAVEEN KUMAR S
312322107033
CGPA : 8.68



KAUSHIK B
312322107021
CGPA : 8.65



KALAIARASAI C M
312322107018
CPGA : 8.61



DHEEPIGHA G
312322107007
CGPA : 8.61



GAYATRI K
312322107010
CGPA : 8.51



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
STUDENT TOPPERS SECURED 8.5 CGPA AND ABOVE (UP TO V SEMESTER)
BATCH : 2021 - 2025

 PRADEEP KUMAR R 312321107035 CGPA : 9.15	 POOJA SRI A 312321107034 CGPA : 9.07	 SANGEETHA D 312321107040 CGPA : 8.91
 JAYASRUTHI S 312321107020 CGPA : 8.78	 AKILA S 312321107004 CGPA : 8.79	 ARUN KUMAR K 312321107008 CGPA : 8.78
 KARTHICK RAJA B 312321107024 CGPA : 8.63	 SURYA KUMAR R 312321107049 CGPA : 8.58	

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