



St. JOSEPH'S COLLEGE OF ENGINEERING

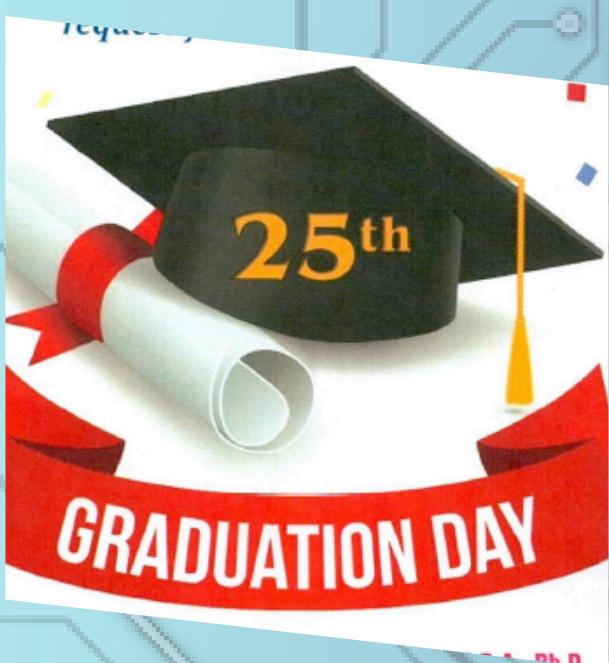
You Choose, We Do It
(AN AUTONOMOUS INSTITUTION)
OMR, CHENNAI - 119



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Newsletter

May 2024

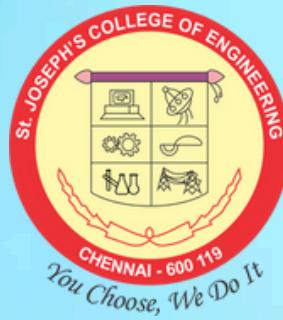


St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



The Choice of
Disciplined Toppers





VISION

To become a world class renowned department where dissemination and application of knowledge in design and analysis of electronic circuits in the field of communication is delivered and to synergistically balance through relentless pursuit of student success towards the economic prosperity of the society and the world at large.

MISSION

Professionalism: Achieve excellence in teaching, learning, and educational activities which ensure that each student has the opportunity to attain his or her fullest potential

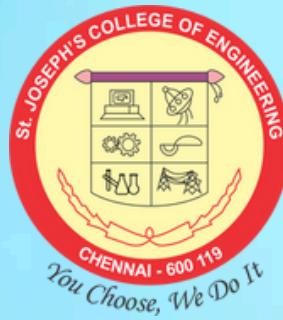
Core Competence: Inculcate innovative skills, research aptitude, team-work, ethical practices in students so as to meet expectations of the industry as well as society.

Research: Provide research and intellectual resources that address problems facing the industry and the world, while advancing the boundaries of disciplinary and multidisciplinary research and its applications.

Industrial Interaction: Provide professional development opportunities for all by creating an open and accessible learning environment and incorporating appropriate technology through collaboration with industry

PROGRAM OUTCOMES

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.



4. 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 proceed valid conclusions.
5. 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.
6. The engineer and 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.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
10. 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, and give and receive clear instructions.
11. Project management and 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.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES

1. To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.
2. To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.
3. To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.



EVENTS OF MAY-2024

- Events Organized
- Placement Activities
- Placement Empowerment Program
- Summer Internship program
- Students Achievements
- Staff Achievements

EVENTS ORGANIZED

Student Employability Enhancement Research Activities



The department of ECE has conducted the following SEERA activities for the students of 2nd year on 25th April,2024.

Placement training

Placement training programs are essential components of preparing students for successful careers. These programs encompass various activities. On this particular day, Vigneshwaran R, CEO & Co-Founder of EMBLOCK TECIH PVT.LTD briefed a few students on artificial intelligence in a smooth manner. It is a necessity in today's world to secure employment.

EVENTS ORGANIZED

Student Employability Enhancement Research Activities



Group discussion

Group discussions simulate real-world scenarios where candidates engage in constructive conversations on specific topics. These sessions help improve communication, critical thinking and interpersonal skills. Participants learn to articulate their thoughts effectively while respecting others' opinions. Additionally, GDs enhance team work and leadership qualities.

Special classes

The weekly SEERA classes conducted by the institution aims to enhance the employability of our fellow mates. It takes several problems bordered by the undergraduates in the process of attaining their goals. During this week, special classes were directed by our faculty members for students with 3 or above arrears in order to provide them assistance. By filling up the gaps that students have in the necessary modules, our staff were able to guide them through the journey of knowledge and wisdom. Along with guiding them in enhancing their performance in the upcoming examinations, they have also boosted up their morals and installed self-confidence.

EVENTS ORGANIZED

Student Employability Enhancement Research Activities



Skill rack

Examinations are a mere checkpoint of learning abilities and does not determine true potential. Students with 1 or 2 arrears are people who have missed the checkpoint by a slight margin. With the interest of developing their expertise, sessions were conducted in which students were encouraged to solve problems in the skill rack platform. This enables the scholars to develop their programming knowledge in various programming languages. Doing so would greatly assist them in cracking job interviews in the future. Engaging the students in this skill rack program reinforces the prominent saying, 'practice makes a man perfect'.

PLACEMENT ACTIVITIES

Level Up Your Skills! Machine Learning Placement Training



From April 27th to May 4th, 2024, the Department of ECE hosted an immersive Introduction to Machine Learning training session tailored for 58 enthusiastic students from the 2nd year Electronics and Communication Engineering (ECE) stream. Led by seasoned industry expert, Mr. Jeeva, Trev, the program delved into foundational concepts, algorithms, and practical applications of machine learning, equipping participants with invaluable skills poised to shape the future of technology.

PLACEMENT ACTIVITIES



The training delved into the core principles of machine learning, covering essential topics such as:

- **Foundational Concepts:** Students gained a solid understanding of the core concepts underlying machine learning, including algorithms, data analysis techniques, and model building.
- **Algorithmic Exploration:** The program provided participants with hands-on experience with various machine learning algorithms, enabling them to grasp their functionalities and potential applications.
- **Practical Applications:** The training went beyond theory, incorporating real-world scenarios and practical applications of machine learning in the field of ECE. This practical approach equips students to translate their knowledge into tangible solutions for future industry challenges.

PLACEMENT ACTIVITIES



Through hands-on exercises, real-world case studies, and collaborative projects, students not only gained a comprehensive understanding of ML principles but also honed their problem-solving abilities and critical thinking skills. As they embark on their professional journeys, armed with this newfound knowledge, they are primed to thrive in the ever-evolving landscape of technology and innovation.

By successfully completing this program, the students have gained invaluable skills that will make them highly sought-after candidates in the job market. Their understanding of machine learning positions them to become future leaders in shaping the technological advancements of tomorrow.

PLACEMENT ACTIVITIES

IoT and Low-Cost Hardware Interfacing with MATLAB Workshop



The poster is for a workshop titled "IoT & Low Cost Hardware Interfacing with MATLAB". It features logos for St. Joseph's Group of Institutions, OMR, Chennai, and MathWorks ARK. The event is organized by the 5G/6G Technology Innovation Centre, Embedded Systems and Internet of Things (IoT) VLSI Design Centre. It is jointly organized by Mr. Gowtham Rajmohan and Mr. Afsal S. The workshop is scheduled for 08-05-2024 from 09:40 a.m. to 03:00 p.m. at the VLSI Design Centre, Centre For Innovation Engineering Campus.

Placement Empowerment Program

IoT & Low Cost Hardware Interfacing with MATLAB

Jointly organized by

5G/6G Technology Innovation Centre

Embedded Systems and Internet of Things (IoT)

VLSI Design Centre

Mr. Gowtham Rajmohan
Senior Application Engineer
ARK Infosolutions Pvt Ltd,
Chennai

Mr. Afsal. S
Senior Application Engineer
ARK Infosolutions Pvt Ltd,
Chennai

08-05-2024

VLSI Design Centre, Centre For Innovation Engineering Campus

09:40 a.m - 03:00 p.m

Bridging the Physical and Digital: A Recap of the IoT and Low-Cost Hardware Interfacing with MATLAB Workshop

The gap between the physical world and the computational power of MATLAB narrowed on [08/05/2024] with a successful one-day workshop geared towards Faculties, Researchers, and Students. Led by industry experts Er. Gowtham Rajmohan and Er. Afsal (Sr. Application Engineers-MATLAB, Chennai), the workshop empowered participants to seamlessly integrate low-cost hardware with MATLAB for innovative IoT projects.

PLACEMENT ACTIVITIES

IoT and Low-Cost Hardware Interfacing with MATLAB Workshop



Fostering Collaboration and Innovation

The workshop wasn't just about acquiring technical skills. It also fostered a collaborative environment that encouraged knowledge exchange and networking among participants. This facilitated interaction helped spark new ideas and laid the groundwork for potential future collaborations, further enriching the learning experience.

A Resounding Success: Equipping Participants for the Future

The "IoT and Low-Cost Hardware Interfacing with MATLAB" workshop was a resounding success. Participants left equipped with valuable knowledge and practical skills, allowing them to seamlessly integrate hardware into their MATLAB workflows for innovative IoT projects. This newfound expertise positions them to be at the forefront of the ever-evolving world of connected devices and the powerful computational tools that drive them.

PLACEMENT EMPOWERMENT PROGRAM

Microscopic Marvels: Unveiling the Design Secrets of VLSI

PLACEMENT
EMPOWERMENT
PROGRAM

VLSI DESIGN CENTRE

AROKIA RINALDO ANDREW
(ALUMNI: BATCH 2009-2013)
PRINCIPAL ASIC VERIFICATION ENGINEER,
PALO ALTO NETWORKS, San Francisco
Bay Area United States

TECH TALK : SKILLS AND QUALIFICATIONS
FOR A CAREER IN VLSI

AGENDA

1. Role of VLSI Engineers in the semiconductor industry
2. Technical skills required for VLSI engineers
3. Career paths and job opportunities
4. Trends and Innovation in VLSI

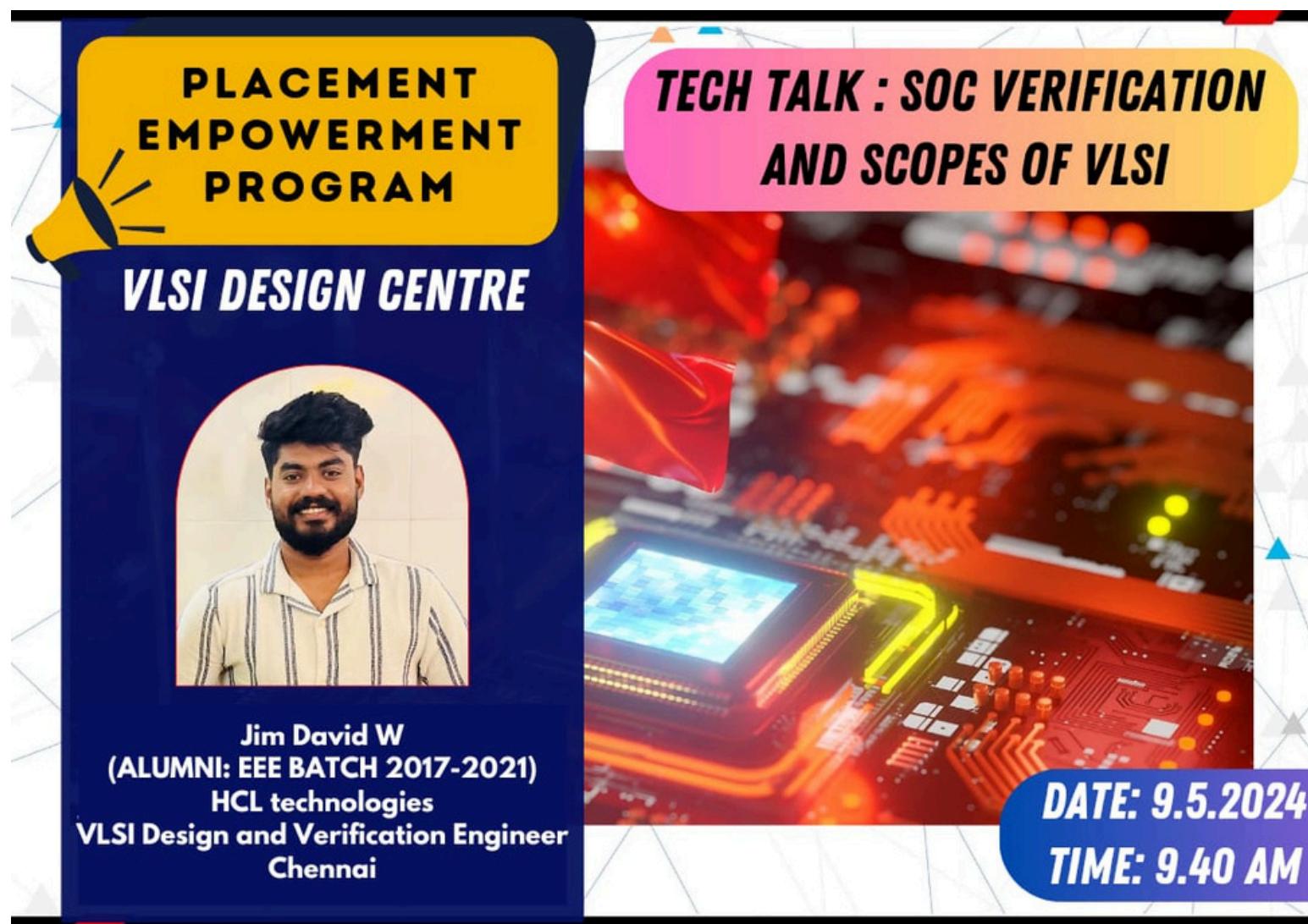
DATE: 6 / 5 / 2024
TIME: 9.40 AM [VIRTUAL MODE]

Tech talk aims to know the Skills and Qualifications for a Career in VLSI.

The students understood the role of VLSI Engineers in the Semiconductor industry, Technical Skills required for VLSI Engineers, Career paths & job opportunities and Trends & Innovation in VLSI.

PLACEMENT EMPOWERMENT PROGRAM

Demystifying SOC - A Tech Talk



Techtalk aims to give brief overview of SoC Verification and Scopes in VLSI.

The students gained a wealth of knowledge about VLSI technology and a deep dive into the myriad opportunities and cutting-edge advancements within the VLSI field. From this session, Students were able to learn about the dynamic career paths available and the significant impact VLSI technology has on various industries. The session not only broadened Students understanding of VLSI but also sparked a renewed sense of motivation and curiosity. It's amazing to see how much potential there is in this field and the exciting prospects it holds for the future. Students were able to learn front end process in VLSI Design flow completely.

SUMMER INTERNSHIP PROGRAM

Machines with a Mission: Unveiling the Future of Robotics



The Department of Electronics and Communication Engineering organized a Summer Internship Program tailored exclusively for students completing Class 11 and 12. The focus of the first day was on Robotics, aimed at providing participants with comprehensive insights into this field.

The inaugural day of the internship witnessed enthusiastic participation from both students and faculty members. Under the esteemed guidance of Professors Dr. R. Niruban and Dr. J. Sivagurunathan, the event was a resounding success. The active involvement of student coordinators Prasanth, Lithin, and Madhan ensured smooth execution throughout the day.

SUMMER INTERNSHIP PROGRAM

Machines with a Mission: Unveiling the Future of Robotics



- The first day of the internship program was met with overwhelming positivity and enthusiasm from the participants. It served as a platform for students to expand their understanding of Robotics and its interdisciplinary applications. Through engaging activities and expert guidance, students gained valuable insights, nurturing their interest and curiosity in the field.
- The success of the Day 1 Summer Internship Program underscores the commitment of the Department of Electronics and Communication Engineering to fostering academic excellence and nurturing the next generation of technologists. We are optimistic that the knowledge imparted during this program will empower students to explore further and excel in their academic and professional pursuits.

SUMMER INTERNSHIP PROGRAM

From Appliances to Cities: Exploring the Expanding World of IoT



- The Department of Electronics and communication Engineering conducted Expertise Sharing for the student of XI and XII . State of the art of demonstration in Internet of Things
- Continuing the momentum from the previous day, the Department of Electronics and Communication Engineering organized Day 2 of the Summer Internship Program. The focus shifted to Internet of Things (IoT), offering students a comprehensive understanding of this emerging technology.
- Day 2 witnessed active participation from students and faculty members alike. Professors Dr. J. Sivakumar, Dr. J. Sivagurunathan, and Professor G.D. Vignesh led the proceedings, providing valuable insights into IoT and its applications. The engagement of student volunteers, Mohan Raj and Madhan, ensured the smooth coordination of activities throughout the day.

SUMMER INTERNSHIP PROGRAM

From Appliances to Cities: Exploring the Expanding World of IoT



- *Presentation on IoT:* Professor G.D. Vignesh delivered an informative presentation, elucidating the concepts and applications of Internet of Things, providing students with valuable insights into this rapidly evolving field.
- *Interactive Quiz:* Following the presentation, students Uma, Yuthika, and Sakthi Kumar organized an engaging online quiz, capturing the interest and enthusiasm of all participants, further deepening their understanding of IoT concepts.
- *Demonstration:* After the interactive quiz, student coordinators Lithin and Prasanth conducted a hands-on demonstration using Arduino UNO, showcasing practical applications of IoT technology and its implementation.
- Day 2 of the internship program proved to be both informative and engaging, with students gaining valuable exposure to IoT technology. The interactive sessions and practical demonstrations facilitated a deeper understanding of IoT concepts, inspiring students to explore further and pursue avenues in this burgeoning field.

SUMMER INTERNSHIP PROGRAM

Beyond the Firewall: Unveiling the Art of Cyber Security



- On the third day of the Summer Internship Program, the focus shifted to cybersecurity and ethical hacking, offering students a profound insight into these critical domains. Mr. Pradhan Vijayakumar, Founder of ZERO2INFYNITE, a leading cybersecurity service and training company in India, graced the session as a guest speaker, enriching students with his expertise and experience.
- The session commenced with an enlightening presentation by Mr. Pradhan Vijayakumar, who passionately shared insights into cybersecurity, emphasizing its significance in today's digital landscape. The guidance provided by Dr. J. Sivagurunathan and Mrs. S. Devi Priya further enriched the learning experience for the students. Student coordinators Mohan Raj, Madhan, and Uma ensured the seamless execution of the event, contributing to its success.

SUMMER INTERNSHIP PROGRAM

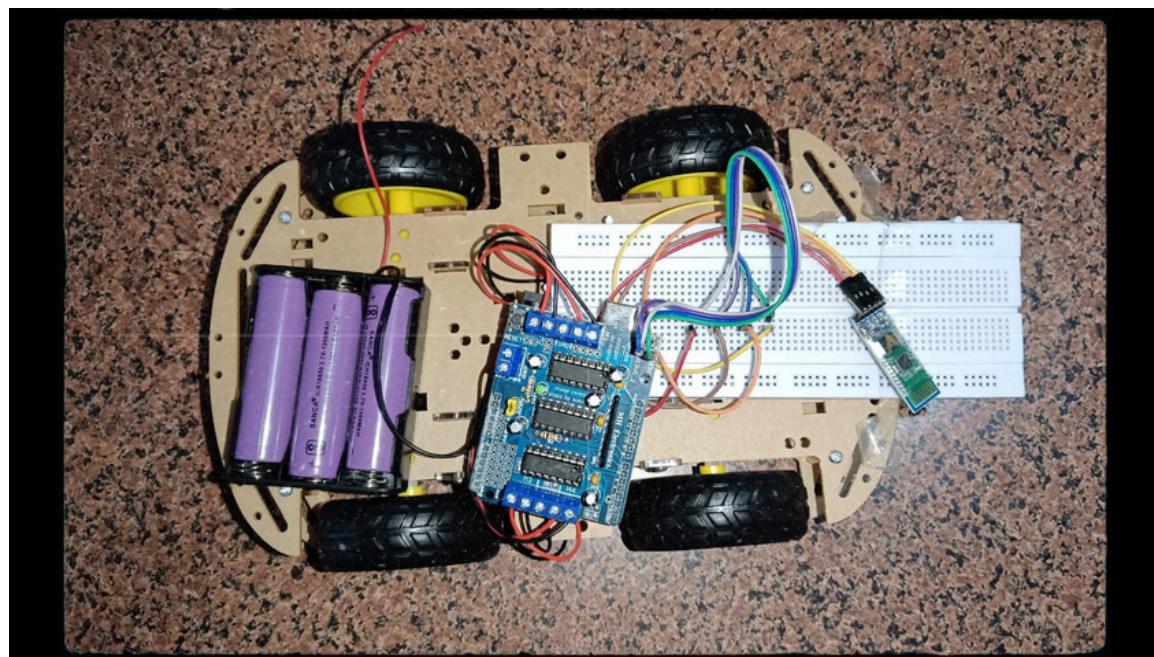
Beyond the Firewall: Unveiling the Art of Cyber Security



- *Guest Speaker Session:* Mr. Pradhan Vijayakumar's session on cybersecurity was highly informative and engaging, providing students with practical knowledge and insights into this crucial field.
- *Interactive Group Discussion:* Students Yuthika and Sakthi Kumar facilitated an interactive group discussion, allowing participants to exchange ideas, share perspectives, and delve deeper into cybersecurity and ethical hacking concepts.
- Day 3 of the internship program proved to be a valuable learning experience for the students, as they gained a deeper understanding of cybersecurity and ethical hacking. The session, enriched by the guest speaker's expertise and the engaging group discussion, inspired students to explore career opportunities in these domains and equipped them with essential knowledge to navigate the digital world safely and responsibly.

SUMMER INTERNSHIP PROGRAM

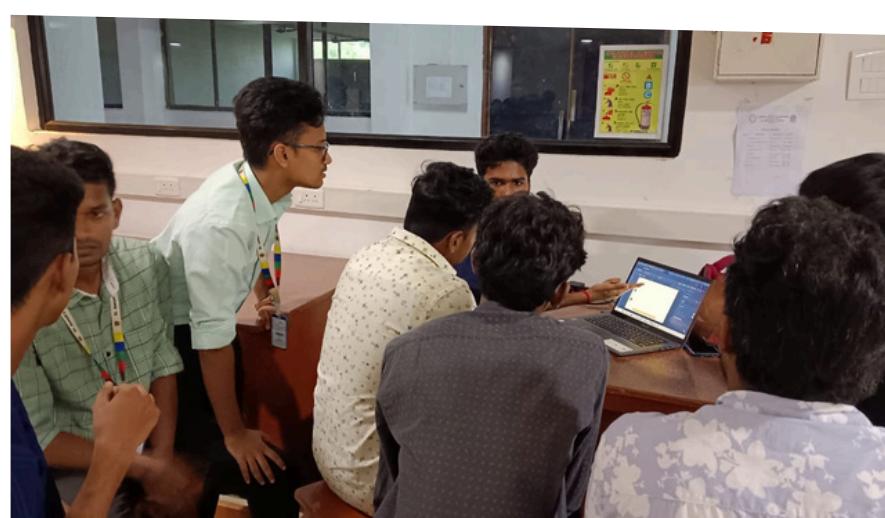
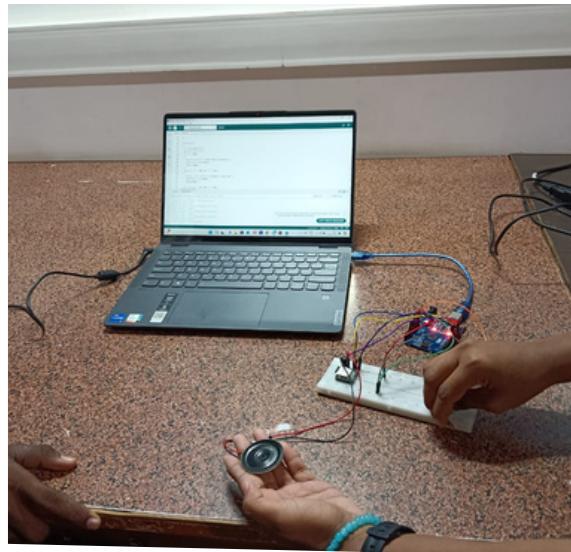
Next- Generation Technologies



- Day 4 of the Summer Internship Program delved into the fascinating realm of AI and machine vision, providing students with valuable insights into these cutting-edge technologies. Under the guidance of Mrs. Elaveni, students embarked on a journey to explore the lenses of AI and machine vision, uncovering their applications and potential impact on various industries.
- The day commenced with an illuminating session led by Mrs. Elaveni, who provided expert guidance on AI and machine vision, highlighting their significance in today's technological landscape. Student coordinators Mohan Raj and Madhan ensured the seamless organization of the event, contributing to its success.
- *Interactive Quiz:* Students Yuthika, Sakthi Kumar, and Uma conducted an engaging quiz, challenging participants to test their knowledge and understanding of AI and machine vision concepts.
- *Super Duper Group Discussion:* Led by Yuthika and Sakthi Kumar, a dynamic group discussion ensued, allowing students to delve deeper into the intricacies of AI and machine vision. The lively exchange of ideas and perspectives made the session truly remarkable.

SUMMER INTERNSHIP PROGRAM

Next- Generation Technologies



- Day 4 of the internship program proved to be an enriching experience for the students, as they gained a deeper understanding of AI and machine vision. The interactive quiz and group discussion facilitated active participation and knowledge sharing, fostering a collaborative learning environment.
- The success of Day 4 of the Summer Internship Program underscores the department's commitment to providing students with comprehensive insights into emerging technologies. The knowledge and experiences gained during this program will empower students to embrace the opportunities presented by AI and machine vision, contributing to innovation and progress in their respective fields.

SUMMER INTERNSHIP PROGRAM

Beyond the Blueprint: Experiencing Projects in Action



- On Day 5 of the Summer Internship Program, the focus was on the demonstration of IoT projects, showcasing the culmination of students' hard work and creativity. With the guidance of our ECE Department, students had the opportunity to witness firsthand the practical applications of IoT technology. Additionally, various competitions were organized, highlighting the diverse talents and skills nurtured during the program.
- The day commenced with the demonstration of over 10 innovative IoT projects developed by our talented ECE students. Each project showcased the potential of IoT technology to revolutionize various industries and sectors. The engaging presentations captivated the audience and provided valuable insights into the possibilities offered by IoT.
- *IoT Project Demonstrations:* Led by our ECE students, the demonstration of IoT projects highlighted the practical applications and innovative solutions developed during the program. The projects showcased the students' technical prowess and creativity in leveraging IoT technology.

SUMMER INTERNSHIP PROGRAM

Beyond the Blueprint: Experiencing Projects in Action



- *Competitions:* Various competitions were conducted throughout the day to foster healthy competition and showcase the diverse talents of the participants. Notably, in the short film contest, a student who received training under our guidance secured the 1st prize, earning a prestigious award worth rupees 19,000.
- Day 5 of the internship program was a testament to the students' dedication, creativity, and technical expertise. The demonstration of IoT projects provided valuable hands-on experience and practical insights into the implementation of IoT technology. Additionally, the success of the competitions underscored the effectiveness of the program in nurturing and showcasing the talents of the participants.
- As we conclude the Summer Internship Program, we celebrate the achievements and successes of the participants. Through hands-on projects, competitions, and mentorship, the program has empowered students to explore new technologies, develop practical skills, and unleash their creative potential. The knowledge and experiences gained during this program will serve as a foundation for future endeavors and inspire the next generation of innovators.

STUDENTS ACHIEVEMENTS

NPTEL Exam Success! Students Achieve Top Grades

S. No	Name	Course Title	Position
1.	HARINI P	Introduction To Internet of Things	ELITE
2.	AYYANAR PRASANNA B	Introduction To Internet of Things	ELITE
3.	PRASANNA J S	Introduction To Internet of Things	ELITE
4.	SUBISAN R	Introduction To Internet of Things	ELITE
5.	LAKSHMAN P	Principles of Signals and Systems	COMPLETED
6.	HARIHARASUDHAN K	Introduction To Programming in C	COMPLETED
7.	ARUN KRISHNA B V	Introduction To Internet of Things	ELITE_SILVER
8.	AJITHA M	Introduction To Internet of Things	ELITE
9.	JAYAPREETHA S	Introduction To Internet of Things	ELITE_SILVER
10.	LAVANYA V	Problem Solving Through Programming In C	ELITE
		The Joy of Computing Using Python	ELITE

STUDENTS ACHIEVEMENTS

NPTEL Exam Success! Students Achieve Top Grades

S. No	Name	Course Title	Position
11.	RAGAVI R	Introduction To Internet of Things	ELITE
12.	JAISHREE J	Introduction To Internet of Things	ELITE_SILVER
13.	KALAI SELVIE	Introduction To Internet of Things	ELITE_SILVER
14.	MOHANRAJ P	Introduction To Internet of Things	ELITE
15.	KEERTHANA V	Introduction To Internet of Things	ELITE
16.	NITHYA E	Introduction To Internet of Things	ELITE
17.	AVILA ROSHINI	Introduction To Internet of Things	ELITE_SILVER

STUDENTS ACHIEVEMENTS

Graduation Day Ceremony



St. Joseph's College of Engineering Celebrates 25th Graduation Ceremony!

A Memorable Milestone Achieved

St. Joseph's College of Engineering successfully hosted its landmark 25th graduation ceremony on May 18th, 2024, at the college auditorium. The ceremony marked a momentous occasion for the entire college community, celebrating the accomplishments of our graduating students.

Prestigious Presence

The ceremony was presided over by the esteemed Dr. B. Babu Manoharan, Chairman of St. Joseph's Group of Institutions. The esteemed Dr. M. Ravichandran, Secretary of the Ministry of Earth Sciences (MOES) of the Government of India, graced the occasion as the Guest of Honor.

Dr. Ravichandran delivered an inspiring graduation address and presented the degree certificates to the graduating class.

STUDENTS ACHIEVEMENTS

Shining Stars: Our Gold and Silver Champions!

BRANCH TOPPER - GOLD MEDAL

► BATCH : 2018 - 2022 ◄



Ms. CATHERINE AURELIA C A

D/o. Mr. CHRISTIE ALEXANDER F. X
Mrs. ROSARY ALEXANDER

BRANCH TOPPER - SILVER MEDAL

► BATCH : 2018 - 2022 ◄



Ms. VADDI LAKSHMI SATYA SAI SAROJINI

D/o. Dr. VADDI SESHAGIRI RAO
Mrs. VADDI PADMAJA

STUDENTS ACHIEVEMENTS

A Milestone Reached: Celebrating the Graduation of 2022 Class

The following students have secured **TOP RANKS** among 175 candidates graduated in the **DEGREE OF BACHELOR OF ENGINEERING** in **ELECTRONICS AND COMMUNICATION ENGINEERING** programme under the **Faculty of Information and Communication Engineering** in **April 2022** on the basis of performance in all the examinations held during **2018-2022**.

S. No	Name	Rank
1.	Catherine Aurelia C A	First (Gold Medal)
2.	Vaddi Lakshmi Satya Sai Sarojini	Second (Silver Medal)
3.	Sneha Rajan	Third
4.	Adeshwar	Fourth
5.	Hemanth Sri Vignesh S	Fifth
6.	Shwetha Bertilla A	Sixth
7.	Sindhuja R	Seventh
8.	Meera Jose	Eighth
9.	Keerthi Varsha B	

STAFF ACHIEVEMENTS



Dr. R. Niruban Successfully Completes My Bharath Portal Training Program

We are proud to announce that Dr. G. Niruban, Associate Professor from the Department of Electronics and Communication Engineering, successfully completed the My Bharath Portal training program on April 26, 2024.

The program, conducted by the Ministry of Youth Affairs and Sports (Government of India) in New Delhi, equipped participants with the knowledge and skills to effectively utilize the My Bharath Portal. This portal is a valuable resource that provides information and opportunities for young people in India.

Dr.R.Niruban's successful completion of this program reflects his commitment to staying informed about initiatives that benefit our youth. We are confident that he will leverage this knowledge to empower and inspire students.

STAFF ACHIEVEMENTS

SCI Publications (Calendar Year – 2024)

S. No	Author(s)	Title	Journal name	Impact Factor
1.	Dr. G. Sivagurunathan	Implementation of unidirectional control mechanism for DC-DC converters	Journal of Information & Optimization Sciences	ESCI
2.	Dr. J. Sivakumar	The Optimization of PEM Fuel-Cell Operating Parameters with the Design of a Multiport High-Gain DC-DC Converter for Hybrid Electric Vehicle Application	Sustainability	3.9
3.	Mrs. K. Jasmine Mystica	Learning to allocate: a delay and temperature-aware slot allocation framework for WBAN with TDMA-MAC	Wireless Networks	SCI

STAFF ACHIEVEMENTS

Scopus and Conference Publications

S. No	Author(s)	Title	Journal/Conference Name
1.	Dr. Avudaiammal R	Multi-Objective Spider Monkey Optimization for Energy Efficient Clustering and Routing in Wireless Sensor Networks	Ad-Hoc and Sensor Wireless Networks
2.	Dr. Shirley Selvan	Smart Shopping Trolley based on IoT and AI for the Visually Impaired	IEEE XPLORER
3.	Mrs. G. Anitha	A novel ensemble pruning framework based on accuracy margin metric ordering	7th International Conference on Intelligent Computing (IConIC)
		Cyber Cognizance: A novel machine learning based ensemble framework for malware detection	
4.	Mrs. M. Angelin Ponrani	IOT-Based Instruction detection system to serve electric vehicle charging station	International conference of Embracing the digital Horizon: Pioneering Commerce and Management Strategies for a Transformative Future (EDH 2024)

STAFF ACHIEVEMENTS

NPTEL Certification Fuels Faculty Success!

The following faculties have done certification on various courses in NPTEL.

S. No	Name of the Faculty	Title	Position
1.	Dr. P. Ezhilarasi	Communication Networks	ELITE
2.	Dr. S. Rajeshkannan	Communication Networks	ELITE
3.	Mr. G D Vignesh	Communication Networks	ELITE
4.	Dr. G. Sivagurunathan	Communication Networks	ELITE
5.	Mrs. P. Elaveni	Deep Learning	ELITE
6.	Mrs. G. Anitha	Research Methodology	ELITE_SILVER
7.	Mrs. M. Angelin Ponrani	Deep Learning	COMPLETED
8.	Mrs. R. Madhumitha	Research Methodology	ELITE_SILVER
9.	Mr. M. Lingeswaran	Evolution of air interface towards 5G	8 weeks
10.	Dr. M. Suresh	Modelling and Simulation of Dynamic Systems	COMPLETED
		Industrial Automation and Control	COMPLETED
		Deep learning	COMPLETED

STAFF ACHIEVEMENTS

Patent (Intellectual Property Rights)

The following faculty members have **published Patent** in the month of **May 2024**

S. No	Name of the Faculty	Title
1.	Mr. GD VIGNESH	AI-Driven Statistical Analysis of Social Media Data for Enhanced Event Promotion and Audience Interaction
2.	Dr. D. LAKSHMI	Automatic Medical Dispenser with Dynamic Telemonitoring in Rural Areas
3.	Mr. M. LINGESHWARAN	Next Generation Telecommunication Network Infrastructure for Low Latency Data Transmission
4.	Dr. J. SIVAKUMAR	Intelligent Image Processing System for Adaptive Traffic Light Control
5.	Mrs. JASMINE MYSTICA K	Predictive Analysis of Stock Market Trends Using AI And Machine Learning Techniques

TO KNOW MORE ABOUT DEPARTMENT ACTIVITIES

Visit our Department Website:

Click Here

[**ECE Department St. Joseph's College of Engineering**](#)

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[**ECE St. Joseph's Linkedin**](#)

Instagram:

[**ECE St. Joseph's Instagram**](#)

Editorial: *Mrs. M. Angelin Ponrani (AP/ECE)*

Student Editorial: *N.Shriramkrishna, S.Thavaprakash*

Reviewed by: *Dr. S. Rajeshkannan (HOD/ECE)*

***For Admissions:** Visit www.stjosephs.ac.in or Contact +91 9940104881/+91 9940104882