

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

We Make You Shine
(AN AUTONOMOUS INSTITUTION)
OMR, CHENNAI - 119



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEWSLETTER FEBRUARY - 2024



TO KNOW MORE ABOUT THE DEPARTMENT ACTIVITIES PLEASE VISIT

https://stjosephstechnology.ac.in/web/eee/

Contents

Sl.No	CONTENTS	Page.No
1	Vision & Mission	3
2	Prize Winners	4
3	MOU Activities	8
4	Placement Activites	9
5	5 Guest Lectures	
6	Industrial Visits	19
7	NGO Visits	20
8	Club Activities	22
9	Alumni Talks	24
10	Alumni Tesimonials	28

Vision

To become a well renowned in the field of Electrical and Electronics Engineering by imparting knowledge and inculcating ethical values to serve the global society.

Mission

To inculcate knowledge of fundamental principles and make the students competent in the field of Electrical and Electronics Engineering.

Program Educational Objectives

- To provide foundation in their fields such as circuit theory, Field theory, control theory and computational platforms.
- o To enhance the designing skills for the evolution of new technology in the Electrical and Electronics domain.
- To equip the students to work in interdisciplinary groups for enhancing professional skills.
- To motivate and prepare the students for a successful career in the industry or higher education.
- To create an awareness for lifelong learning and inculcate professional ethics.

Program Specific Outcomes

- Our graduates will be able to understand the basic concepts related to engineering and technology with enhanced problem solving skills.
- Our graduates, with high proficiency in Electrical and Electronics Engineering will be able to exhibit technical knowledge in industrial and entrepreneurial focus.
- Our graduates can translate the effects of professional values and ethics in accordance with Electrical and Electronics Engineering domain, to create sustained environment for social growth.

Prize Winners

The department of EEE takes immense pleasure in congratulating the following students for their outstanding performance in competitions conducted in various Engineering colleges. Their diligence and passion have resulted in this well-deserved success. Let their achievement serve as an inspiration to others. Heartfelt congratulations!

Sl. No	STUDENT NAME	EVENT	ORGANISING COLLEGE	PRIZE WON					
	III YEAR								
01.	AISHWARYA P	TALE RIFT	B S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY	I (TROPHY)					
02.	SENTHIL VELAN R			II (TROPHY)					
	II YEAR								
03.	KARTHIYAYINI P								
04.	HEMATHARSHINI V K	HACK –	St. JOSEPH'S COLLEGE OF ENGINEERING	I RS. 10,000/-					
05.	GAYATHRI K U	AI- THON							
06.	ARVIND V								
07.	AADITHYA S	VISTALK	RMK ENGINEERING	II RS. 500/-					
08.	ABINIVASAN S	VISTALK							
09.	ARAVINTH S		COLLEGE						



St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)

St. Joseph's Group of Institutions



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE WINNERS

HACK-AI-THON'24

COLLEGE NAME SE JOSEPH'S INSTITUTE OF TECHNOLOGY

TEAM NAME ELECTRIC VOGUE

PLACE FIRST

PRIZE AMOUNT TEN THOUSAND ONLY

₹ 10,000

DATE 24.2.2024

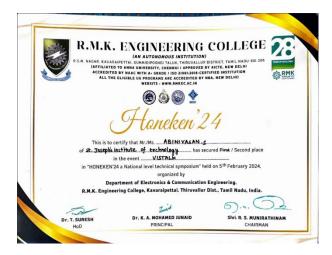
CHAIRMAN
St. Joseph's Group of Institutions























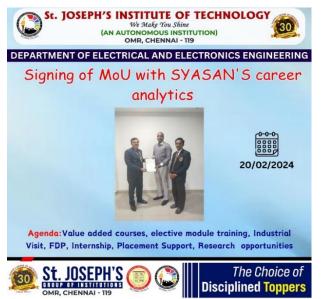


MOU Activities

SIGNING OF MOU WITH SYASANS CAREER ANALYTICS

The signing of a Memorandum of Understanding (MOU) between the Department of Electrical and Electronics Engineering (EEE) and SYASANS Career Analytics marks a significant milestone in fostering collaborative partnerships for academic enrichment and professional development.

- With a comprehensive agenda encompassing value-added courses, elective module training, industrial visits, Faculty Development Programs (FDPs), internships, placement support, and research opportunities, this MOU sets the stage for a multifaceted engagement aimed at empowering students and faculty members alike.
- Ensuring that students are well-prepared to embark on successful careers upon graduation. Overall, this MOU exemplifies a shared vision of excellence and collaboration between the EEE department and SYASANS Career Analytics, poised to enrich the educational experience and empower future generations of engineers.





Placement Activities

PLACEMENT DETAILS – BATCH (2020-2024)

We are delighted to share the exciting news that the has secured a coveted position with various companies. Their hard work, dedication, and skills have opened doors to new opportunities. The department extends warm congratulations to these students for their significant achievements. May this placement be the first step toward a successful and fulfilling career journey!

Sl. No	REGISTER NUMBER	NAME OF THE STUDENT	COMPANIES PLACED
01.	312420105006	MERIN STEPHA J	KEYENCEPICKYOURTRIAL
02.	312420105007	NIRMAL S	BYJU'SCONSERVESOLUTIONS
03.	312420105001	DANIEL M	o JSE ENGINEERING PVT LTD
04.	312420105009	PAUL ANDREW M	o JSE ENGINEERING PVT LTD
05.	312420105004	JUNISH EZRA	o GK POWER
06.	312420105003	JESSY K	o PICKYOURTRIAL

VALUE-ADDED COURSES FOR FINAL YEARS

From the 5th to the 9th of February 2024, the Department of Electrical and Electronics Engineering (EEE) in collaboration with EMCOG Solutions Pvt Ltd, facilitated a comprehensive Value Added Course focused on "Solar Power Design, Operation, and Installation" exclusively tailored for our final year students. This intensive program aimed to equip students with specialized knowledge and practical skills essential for navigating the rapidly evolving field of solar energy. Emphasizing industry-relevant techniques and emerging technologies, the course provided invaluable insights into optimizing solar energy generation, ensuring system efficiency, and adhering to safety standards.





MOCK INTERVIEW SESSION FOR 3RD YEARS

On February 20, 2024, the Department of Electrical and Electronics Engineering, in collaboration with SYASANS Career Analytics, orchestrated a transformative mock interview session tailored specifically for third-year students. This event was meticulously designed to empower students with the essential skills and confidence vital for navigating real-world job interviews upon graduation.

- Collaboration between the Department of Electrical and Electronics Engineering and SYASANS Career Analytics.
- o Targeted at third-year students.
- o Aimed to enhance communication, problem-solving, and technical skills.
- o Featured simulated interview scenarios guided by industry professionals and career advisors.
- o Provided invaluable feedback for improvement.
- Equipped students with practical experience and insights into employer expectations.
- Served as a pivotal stepping stone in the career development journey of third-year students.





SPOKEN TUTORIAL

We're excited to announce the successful organization of a SPOKEN TUTORIAL workshop by the Department workshop, tailored to enhance practical learning and skill development, attracting enthusiastic participation from students eager to delve into the latest advancements in technology. attendees had the opportunity to deepen their understanding of key concepts and gain hands-on experience in diverse technological domains. The event not only served as a platform for knowledge exchange but also reinforced our department's commitment to fostering innovation and excellence in education. As we reflect on the workshop's success, we look forward to continuing our efforts to empower students and equip them with the tools they need to thrive in an ever-evolving technological landscape.





VALUE-ADDED COURSES FOR 3RD YEARS

The recently conducted Full Stack Development Value Added Course, organized by our department in collaboration with SYASAN'S career analytics, provided participants with essential skills for full-stack development. Immersed in a dynamic learning environment, students explored both front-end and back-end technologies.

The objective of this VAC are as follows:

- o Equip students with essential skills for full-stack development.
- o Offer insights into industry best practices and emerging trends.
- o Empower participants to tackle real-world challenges with confidence.
- o Develop practical skills through hands-on training sessions.
- o Prepare students for successful careers in the dynamic field of full-stack development.





The recently organized Solar Power Design Workshop, hosted by our department in collaboration with EMCOG Solutions Pvt Ltd, equipped participants with fundamental skills in solar power system design. Participants delved into the intricacies of both photovoltaic (PV) panel technology and solar inverter systems, gaining practical knowledge essential for harnessing solar energy efficiently.

Outcomes of this Value Added Course:

- Provide comprehensive knowledge and practical skills in solar power systems.
- Facilitate hands-on experience with state-of-the-art equipment and simulation tools.
- Enhance understanding of operational maintenance in solar power systems.
- Equip students with the skills needed to contribute to the rapidly growing renewable energy industry.
- o Blend theoretical lectures with practical training sessions for effective learning.
- Ensure participants are well-prepared to address challenges in solar power design and installation.







SEERA CLASSES

The SEERA classes are a cornerstone for enhancing students' coding skills and technical knowledge.SEERA classes offer a structured curriculum designed to cultivate proficiency in various programming languages, software development methodologies, and problem-solving techniques. Through hands-on coding exercises, students not only strengthen their foundational understanding but also develop critical thinking skills and creativity in software design and implementation. Moreover, SEERA classes provide a nurturing environment for students to explore their interests, experiment with new technologies, and stay abreast of industry trends, thereby empowering them to excel in a rapidly evolving technological landscape.



SKILL RACK ACHIEVERS

We are thrilled to announce the outstanding achievement of the following students on Skill Rack. Their exceptional skills and dedication have catapulted them to success in the coding field. The Department extends heartfelt congratulations to these Students for this remarkable accomplishment. May this be just the beginning of a journey filled with continued skill mastery and success!

		STUDENT	PROGRAMS SOLVED
		IV YEAR	
01.	312420105007	NIRMAL S	810
02.	312420105011	SANJAY KATHIRESAN	582
03.	312420105006	MERIN STEPHA J	565
04.	312420105004	JUNISH EZRA P	555
05.	312420105008	NISHA BHARATHI J	539
		III YEAR	
01.	312421105059	VISHWANATHAN A	2019
02.	312421105058	VISHAL S K	1017
03.	312421105038	RAJA VIKARAMA ASWIN K R S	917
04.	312421105049	SIVAPRAKASH S	853
05.	312421105001	AISHWARYA P	825
		II YEAR	
01.	312422105049	SUBA SRI S S	771
02.	312422105029	KOKILAVANI E	690
03.	312422105014	GAYATHRI K U	658
04.	312422105020	JEEVA K	639
05.	312422105055	VIMALESH V	634

Guest lectures

Our department hosted many dynamic guest lectures, offering students valuable insights from industry experts. Through interactive discussions and presentations, attendees gained practical knowledge and explored emerging trends in electrical engineering. This event exemplified the department's commitment to holistic education and professional development in the rapidly evolving field of EEE.

CONTEMPORARY DEVELOPMENTS IN BATTERY SCIENCE FOR ELECTRIC VEHICLES (EVS)

Dr. V. Vasan Prabhu, a distinguished tech lead at SK Powercon Fabricators, graced the event as our esteemed speaker. With his expertise and firsthand industry experience, He delved into the latest advancements and innovations in battery technology and BMS tailored for EV applications. The lecture provided students with invaluable insights into the rapidly evolving landscape of electric vehicle propulsion systems and underscored the crucial role of battery science in shaping the future of sustainable transportation. This event epitomized the department's commitment to facilitating interdisciplinary learning and fostering a deeper understanding of cutting-edge developments in the field of electrical engineering.



TECHNOLOGY ADVANCEMENTS AND CHALLENGES IN INSTRUMENTATION

On February 8, 2024, our department hosted an enlightening guest lecture focusing on the topic of "Technology Advancements and Challenges in Instrumentation." This captivating event served as a platform for students to delve into the intricacies of instrumentation technology, exploring both its recent advancements and the accompanying challenges. Renowned expert Dr. A. Robert Sam, Head Scientist at CSIR-CSIO, shared his invaluable insights and experiences, shedding light on emerging trends, innovative methodologies, and the evolving landscape of instrumentation across various industries. Through this lecture, attendees gained a deeper understanding of the complexities and opportunities within the realm of instrumentation, further solidifying the department's commitment to providing holistic education and fostering intellectual curiosity among its students.



Industrial Visits

NEYVELI LIGNITE CORPORATION (NLC)

On February 5, 2024, the Department organized an insightful industrial visit for third-year students to the Neyveli Lignite Corporation (NLC), offering them the experience of real-world applications in the energy sector. This visit provided students with a unique opportunity to witness the operations of one of India's leading power generation and mining companies. During the visit, students were able to tour various facilities, including power plants, lignite mines, and renewable energy installations, gaining practical insights into the entire energy production process. The industrial visit to NLC served as a bridge between theoretical knowledge and practical implementation, allowing students to witness the application of concepts learned in the classroom in a real industrial setting. The visit also underscored the importance of sustainable energy practices, as students learned about NLC's efforts in incorporating renewable energy sources and implementing eco-friendly initiatives. By witnessing the operations, students gained a deeper appreciation for the complexities and dynamics of the sector, while also recognizing the crucial role of electrical engineering in driving innovation and progress in the field. Overall, the industrial visit to Neyveli Lignite Corporation was a valuable learning experience that enriched students understanding of the practical applications of electrical engineering in the real world.



NGO Visits

MARIA'S HOME

On the 3rd of February 2024, the 3rd-year students undertook a meaningful journey to Maria's Home situated at 5/8B, St. Patrick Church 7 Wells, St. Butt Road, St. Thomas Mount, Chennai-16. Actively participating in the visit, the students engaged in providing food to the residents of Maria's Home, creating a direct and positive impact on the lives of the elderly individuals in the community. As the students interacted with the residents, the experience became a lens through which they gained deeper insights into the diverse challenges faced by this demographic. The act of providing sustenance transcended the physical realm, symbolizing a broader dedication to addressing the holistic well-being of those often overlooked or marginalized in society. This visit served as a poignant reminder of the significance of empathy and the transformative potential of collective efforts in effecting meaningful change in the lives of others.





MAHIMAI ILLAM

On February 17, 2024, the 2nd-year students embarked on a visit to Mahimai Illam, located opposite CMC in Chengalpattu. This visit reflected our commitment to community engagement and social welfare initiatives, taking on a special significance as we focused on supporting mentally disabled children. Recognizing the unique challenges faced by this community, we sought to bring joy and assistance to the residents of Mahimai Illam. Through meaningful interactions, companionship, and endeavors to enhance their well-being, our goal was to create a positive impact on the lives of these children. This experience not only broadened our understanding of the complexities surrounding mental health but also emphasized the importance of empathy, compassion, and collective support in fostering an environment of care and inclusivity for these special individuals.





Club Activities

Green Energy Club

The Green Energy Club, in collaboration with the Department of Electrical and Electronics Engineering (EEE), organized an event to promote sustainable energy practices.

The objectives of this event are

- o Delve deeper into the complexities of renewable energy technologies and their integration into modern power systems.
- o Encourage critical thinking and innovation in devising sustainable energy solutions.
- o Gain invaluable insights into the latest developments and trends shaping the renewable energy sector.
- Empower students with a holistic understanding of green energy principles and practices.
- o Drive meaningful change towards a more sustainable and resilient energy future





ENSAV Club

The Department of Electrical and Electronics Engineering (EEE) spearheaded initiatives to foster energy conservation and sustainability awareness among its students through two impactful activities. These events, "Sparkling Green" and "Green Trailblazers," engaged students at different academic levels, providing them with practical experiences and skills to promote energy efficiency within their academic and personal lives.

The objectives of this event are

- The EEE Department organized two activities to cultivate energy conservation and sustainability awareness among students.
- o "Sparkling Green" was held at the ENSAV Club and targeted third-year classes, offering captivating games and activities.
- o Interactive challenges and lively competition in "Sparkling Green" encouraged participants to explore energy-saving practices.
- o "Green Trailblazers" involved second-year students in interactive activities focused on practical approaches to reducing energy consumption.
- o Participants in "Green Trailblazers" gained real-life skills necessary for promoting energy efficiency through challenging games and hands-on exercises.





Alumni Talks

The alumni talks provided an invaluable opportunity for current students to gain insights and inspiration from esteemed graduates who have excelled in their respective fields. These talks served as a bridge between academia and the professional world, allowing alumni to share their journeys, experiences, and valuable advice with younger minds.

M. ESHWAR (2019-2023)

M. Eshwar is a distinguished graduate from the 2019-2023 batch who currently serves as a Programmer Analyst at Cognizant Technology Solutions. Eshwar's insightful discussion on career path growth in the field offered invaluable insights and inspiration to current students aspiring to excel in the technology industry. Through personal anecdotes, practical advice, and reflections on his professional journey, Eshwar shed light on the skills, challenges, and opportunities that lie ahead for aspiring programmer analysts. The alumni talk not only offered a roadmap for career advancement but also underscored the institute's commitment to empowering students with the knowledge and guidance needed to thrive in their chosen fields.



P.I. GOVARTHANAN (2018-2022)

P.I. Govarthanan, a distinguished graduate from the 2018-2022 batch currently works as a Member Technical Staff at HCL Tech provided invaluable insights into strategic steps to crack HCL placement. Govarthanan's expertise and firsthand experience provided an illuminating roadmap for current students aspiring to secure placements at HCL. Through practical advice, personalized strategies, and insider tips, Govarthanan shared invaluable insights into the recruitment process, technical skills sought by HCL, and effective interview preparation techniques. The alumni talk not only served as a guide for cracking HCL placements but also highlighted the commitment to equipping students with the knowledge and resources needed to succeed in competitive professional environments.







M. SARASWATHI

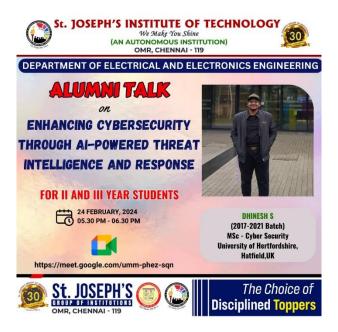
M. Saraswathi is a distinguished alumna currently working as a Technology Services Engineer at Walmart providing a fascinating talk on the future of software and development technologies. Saraswathi's insights offered a compelling overview of emerging trends, innovations, and challenges shaping the landscape of software development. Through a blend of industry expertise and personal experiences, she provided valuable perspectives on the evolution of technology and its implications for future career opportunities. The alumni talk not only served to enlighten students about the dynamic nature of the software industry but also underscored the institute's commitment to preparing its graduates for success in a rapidly evolving digital world.



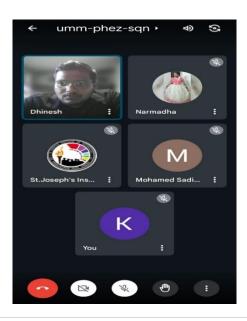


DHINESH S (2017-2021)

We are thrilled to highlight the recent Alumni Talk organized by the Department featuring our esteemed alumnus, Dhinesh S (2017-2021). The session, titled "Enhancing Cybersecurity Through AI-Powered Threat Intelligence and Response," held on 24th February 2024 via Google Meet, provided invaluable insights into the intersection of cybersecurity and artificial intelligence. Dhinesh, an accomplished professional in the field, shared his expertise and experiences, shedding light on the latest advancements in AI-driven threat intelligence and response mechanisms. Through engaging discussions and real-world examples, attendees gained a deeper understanding of the evolving cybersecurity landscape and learned practical strategies to safeguard digital assets against sophisticated cyber threats.







Alumni Testimonials

Alumni testimonials regarding the Department of Electrical and Electronics Engineering (EEE) consistently echo themes of gratitude, accomplishment, and lifelong impact. Former students fondly recall the academic curriculum, enriched by hands-on projects and innovative research opportunities, Many alumni credit the department's distinguished faculty members for their mentorship and guidance, shaping not only their technical expertise but also their ethical and leadership qualities. Beyond academics, alumni often highlight the vibrant community and collaborative spirit fostered within the department, where friendships and networks continue to thrive long after graduation.

The Choice of

Disciplined Toppers



St. JOSEPH'S







Acknowledgment

We express sincere thanks to our beloved Chairman Dr.B.Babu Manoharan, Managing Director Mr.B.Shashi Sekar, Executive Director Mrs.S.Jessie Priya, and Principal Dr.P.Ravichandran for their motivation, guidance, and support.

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