



You Choose, We Do It

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

St. Joseph's Group of Institutions

OMR, CHENNAI - 119



OCTOBER 2025

DEPARTMENT OF SCIENCE

NEWSLETTER



VISION & MISSION



The Department of Science strives to mould the students to the best of their ability to develop their knowledge in basic science required for a budding engineer, to compete and contribute to industry and research. The department hopes to train the young engineers to excel in scientific thinking and logical reasoning.



To create awareness of the potential of Science and scope of its applications to the diversified areas of engineering and technology in industries and research. To secure a pass percentage of above 95% results in university examinations





STUDENT ACHIEVEMENTS



SYMPOSIUM



First-year students **Mithra S. J. Lawrence**, and **Naveen K.** from the Department of Artificial Intelligence and Data Science received a Certificate of Appreciation and a cash prize of ₹500 for securing Third Place in The Stellar Quest event conducted during the National Level Technical Fest "FESTXZ'25" held on 27th October 2025 at Sri Sairam Engineering College, Chennai.

First-year students **Pragadeeswar J.**, **Srivatsan B.**, and **Prasanna A.** from the Department of Artificial Intelligence and Data Science received a Certificate of Appreciation and a cash prize of ₹750 for securing Second Place in The Stellar Quest event conducted during the National Level Technical Fest "FESTXZ'25" held on 27th October 2025 at Sri Sairam Engineering College, Chennai.





DEPARTMENT ACTIVITIES

MAKE-A-THON

An Internal Hackathon titled "MAKE-A-THON 2.0" was organized exclusively for first-year students of St. Joseph's College of Engineering under the inspiring theme "Create. Build. Innovate." on 30th October 2025 at 9:00 AM in the Hackathon & Training Centre, Lab Block-1.

The event aimed to foster creativity, problem-solving, and technical innovation among budding engineers. It featured 17 diverse domains and presented participants with over 50 problem statements designed to challenge their analytical and innovative thinking. A total of 182 enthusiastic teams, comprising more than 1000 students, actively participated and showcased their innovative solutions.

The hackathon provided a dynamic platform for students to transform ideas into prototypes, collaborate effectively, and experience real-world problem-solving, reflecting the spirit of innovation and teamwork promoted by the institution.

St. JOSEPH'S COLLEGE OF ENGINEERING
St. Joseph's College of Engineering
1993-2025

AICTE REAB ISCTE

St. JOSEPH'S COLLEGE OF ENGINEERING
Cordently invites you to the
AN INTERNAL HACKATHON
MAKE-A-THON 2.0
CREATE. BUILD. INNOVATE.

17 DOMAINS
50+ PROBLEM STATEMENTS

DATE & TIME
30th OCTOBER, 2025 - 9.00 A.M

VENUE
HACKATHON & TRAINING CENTRE
St. Joseph's College of Engineering
LAB BLOCK - 1
St. Joseph's College of Engineering



DEPARTMENT ACTIVITIES

MAKE-A-THON 2.0

(Exclusively for First Year Students)
WINNERS LIST

CONGRATULATIONS

SL. NO	DOMAIN DETAILS	TEAM NAME	DEPARTMENT	TEAM MEMBERS
1	MENTAL HEALTH / DIGITAL COUNSELING	CODEGEEKS	ECE	ARSHATH HUSSAIN Z RITHUL RAVEENDRAN AKSHAY R RUBASREE B
2	WEATHER ALERT / IOT	HARDWARE HACKERS	ECE	VISHNU VARMAN V SRIRAM K SHALOM CHARLES V VENKATANATHAN M SAI DARSHINI M
3	AIR QUALITY MONITORING / IOT	HEISENBERG'S UNCERTAIN CANDIDATES	ECE	RITHISH D SHARAVANE PRIYAN SELVA MUKHIL SHARMILA SHAUN S VAIDHYAN SHABARI RAJA
4	EDTECH / KNOWLEDGE SHARING	PROMPT PRODIGIES	ECE	AADITHYA DARSHAN T ANIESS KUMAR M S ANUSHKA ALBERT DEEPIKA J GIRISH R M
5	SMART AGRICULTURE	ACCESS DENIED	ECE	J CHENDHURAN LAKSH KUMAR SINGH KAMESHVARAR V M DARSHAAN DEV V R LORENA IMMACULATE SHREYA SINGH



DEPARTMENT ACTIVITIES

MAKE-A-THON 2.0

(Exclusively for First Year Students)
WINNERS LIST

CONGRATULATIONS

SL. NO	DOMAIN DETAILS	TEAM NAME	DEPARTMENT	TEAM MEMBERS
6	MINING SAFETY / WEARABLE SENSORS	DIGITAL DREAMERS	EEE	JAYA PRATHIBA PRABAKARAN AMIRTHA GOWRI K ANUSHCA VIJIL APARNA DHARUMAN APARNA ANIL KUMAR MONIKA V
7	WATER MANAGEMENT / IOT	SOLUTION SQUAD	EEE	K R SAI POOJA NIKITHA S SMITHA NITHIYASRI B THEEKSHA GLORIYA D THANNEERMALAI S
8	RURAL WATER FILTRATION / HEALTH	MIND SPEAKERS	EEE	VISHNU S VETRIVEL SRINITHISH A NIVASH S PAUL RISHON S ROSELINE SERENA
9	SMART CAMPUS / NAVIGATION	PENTAVERSE	ADS	MARIA ESKLINE NITHISH R NARESH KUMAR N RITHIK K B MEGA J SADHANA S
10	SOLAR ENERGY / PORTABLE POWER	SOLARIZE	ADS	JENNIFER SANJANA INNOCENT JOSHUA PROSPER HARICHARAN K JERISHA KANISHKA L SAI SREENIVASAN



DEPARTMENT ACTIVITIES

MAKE-A-THON 2.0

(Exclusively for First Year Students)
WINNERS LIST

CONGRATULATIONS

SL. NO	DOMAIN DETAILS	TEAM NAME	DEPARTMENT	TEAM MEMBERS
11	SMART CAMPUS / NAVIGATION	CYBERNETIC CODERS	CYBERSECURITY	SUSHANTH MURALIKRISHNAN VISHVATH MANIKANTAN CLEMENT CALEB C RENEE SHARON JAYASHREE S NISMA M
12	WEATHER ALERT / DISASTER WARNING	GREEN GENIUS	CYBERSECURITY	NIVETHASREE P RAJA HARSHINI R A D LAYA STENIKA M SAGAYA BRITTO P VIJITH VEERAN R YASHWANT V
13	FINANCE / BUDGETING	NEURAL NETWORKERZZ	AML	SURYA S THEOLA CAROLINE R SHREYA S VINOTH SERVIN S VISHAL A



DEPARTMENT ACTIVITIES



NGO VISIT



The Department of Science organized an NGO visit on 16.10.2025 for first-year students from various branches to promote social awareness and community engagement. Students visited several organizations, including old age homes, orphanages, and centers for children with special needs (CP children). The visits were organized as follows:

- AML A - Saastha Charitable Trust-Old Age Home, Kundrathur
- AML B - Mission to Blind, Madhavaram
- Cyber - Paradise Home for CP Children, Muttukadu
- Chemical / Mechatronics - Hope Residential Home & Vocational Training Centre, Pattabiram
- MTCS - Ashirwadh Care Home, Injambakkam
- ECE A - Mahimai Illam for CP Children, Chengalpattu
- ECE B - John D Britto Old Age Home, Kovalam
- ECE C - St. Vincent Anbu Illam, Oragadam

The initiative provided students with valuable exposure to social service activities, fostering empathy, responsibility, and a sense of community service.





DEPARTMENT ACTIVITIES

NGO VISIT GLIMPSES





DEPARTMENT ACTIVITIES



NGO



The Department of Science organized an NGO visit on 25.10.2025 for first-year students from various branches to promote social awareness and community engagement. Students visited different organizations, including old age homes, orphanages, and centers for children with special needs (CP children).

The visits were organized as follows:

- EEE A - Natchathira Old Age Home, Noombal
- EEE B - Annai Fathima Child Welfare Centre & Annai Illam Old Age Home, Karapakkam
- ADS A - Mahimai Illam for CP Children, Chengalpattu
- ADS B - Hope Residential Home & Vocational Training Centre, Pattabiram
- ADS C - Manasu CP Children's Home, Tirusulam
- ADS D - Paradise Home for CP Children, Muttukadu

The initiative helped students interact with the inmates, offering them valuable insights into community service and fostering a spirit of empathy, social responsibility, and compassion.



**DEPARTMENT ACTIVITIES****NGO GLIMPSES**



DEPARTMENT ACTIVITIES

ALUMNI TALK

The Department of Science organized an Alumni Career Empowerment Program on 17.10.2025 at Hazel Hall, Placement Block, for first-year students of ECE, EEE, and M.Tech-CSE. The session was conducted by Lt. Col. Diwakar D, an NSG Commando in the Indian Army and EEE alumnus (2006-2010), who shared his remarkable journey and offered valuable guidance on preparing for civil and defence services examinations. The program inspired students to pursue their aspirations with commitment, discipline, and determination.

DEPARTMENT OF SCIENCE
FOR CIVIL AND DEFENCE SERVICES EXAM ASPIRANTS
FOR ECE, EEE AND M.TECH - CSE STUDENTS

ORGANIZES

ALUMNI 

CAREER EMPOWERMENT PROGRAM

ON

**“CAREER FOR ENGINEERS
IN INDIAN ARMY”**

 **October 17, 2025**
10.00 to 11.00 AM

 **PLACEMENT BLOCK**
HAZEL




Lt. Col. DIWAKAR D
**Electronics and Mechanical
Engineering**
Indian Army
EEE ALUMNUS (2006-2010)


**DEPARTMENT ACTIVITIES****GLIMPSES OF ALUMNI TALK**

**DEPARTMENT ACTIVITIES****ALUMNI TALK**


The Department of Science organized an Alumni Career Empowerment Program exclusively for first-year EEE and AML students on October 24, 2025, at the MBA Block Conference Hall. Ms. Sarannya Dayanandan, an alumna of the 2015-2019 EEE batch and Lead Engineer at Bosch Global Software Technologies, delivered a talk on "Designing Your Future with AI." The session provided valuable insights on career development and opportunities in the field of Artificial Intelligence.


DEPARTMENT OF SCIENCE
EXCLUSIVELY FOR FIRST YEAR EEE & AML STUDENTS
ORGANIZED


ALUMNI 
CAREER EMPOWERMENT PROGRAM



Sarannya Dayanandan
Batch : 2015-2019, EEE
Lead Engineer, Bosch
Global software
Technologies

 October 24, 2025
10.00 to 11.00 AM


 MBA BLOCK
CONFERENCE HALL





**DEPARTMENT ACTIVITIES****ALUMNI TALK**


The Department of Science organized an Alumni Career Empowerment Program exclusively for AML and Cybersecurity students on October 25, 2025, from 10:00 to 11:00 AM at the MBA Block Conference Hall. The session, titled "Journey, Insights, and Opportunities," was delivered by Mr. Prem Dakshin, Mechanical Alumnus (2014-2018) and Senior HRBP at ESDS Software Solutions, Chennai. He shared valuable insights on career growth, industry expectations, and opportunities, inspiring students to plan their professional journeys effectively.

DEPARTMENT OF SCIENCE
EXCLUSIVELY FOR AML AND CYBERSECURITY STUDENTS
ORGANIZED

ALUMNI 
CAREER EMPOWERMENT PROGRAM

 **October 25, 2025**
10.00 to 11.00 AM

 **CONFERENCE HALL**
12th BLOCK



**STAFF ACHIEVEMENTS****RESEARCH PUBLICATIONS**

Dr. P. Saravanan
ASSOCIATE PROFESSOR &
HEAD

Dr. P. Saravanan, Associate Professor and Head, Department of Science, has published a review article titled "Toxic threats from plastic waste: human health impacts, challenges, and policy solutions" in the prestigious journal RSC Advances (Royal Society of Chemistry). The article was published in Volume 15, October 2025, and is accessible online at DOI: <https://doi.org/10.1039/d5ra05845g>.



Dr. A. Uma Devi
ASSISTANT PROFESSOR

Dr. A. Umadevi, Assistant Professor, Department of Science, has published a research article titled "Experimental study on mechanical performance and microstructural characterization of optimized sisal fiber reinforced polyester composites" in the prestigious journal Scientific Reports (Nature Portfolio), which carries an impact factor of 3.9. The article was published in October 2025 and is available at DOI: <https://doi.org/10.1038/s41598-025-20317-5>.



Dr. J. Sharmila
ASSISTANT PROFESSOR

Dr. J. Sharmila, Assistant Professor, Department of Science, has published a research article titled "Development of Polymer-Micro-Aluminum Composites for Lightweight Engineering Applications" in the Journal of Polymer & Composites (STM Journals). The article appeared in Volume 13, Issue 6, October 2025, and is accessible online at DOI: <https://doi.org/10.37591/JoPC>.



STAFF ACHIEVEMENTS



RESEARCH PUBLICATIONS



Dr. N. Punitha
PROFESSOR

Dr. N. Punitha, Professor in the Department of Science, co-authored the article titled "Performance and emission characteristics of waste cooking oil biodiesel blends in sustainable fuel applications", published in Scientific Reports, Volume 13, in 2025. The DOI for the publication is <https://doi.org/10.1038/s41598-025-19130-3>.



Dr. K. Jayamoorthy
ASSOCIATE PROFESSOR

Dr. K. Jayamoorthy, Associate Professor, Department of Science, published a research article titled "Functionalization of Halo-Hydroxy Benzimidazole onto SiO₂ Nanoparticles: Catalytic, Photophysical, and Biological Investigations for Sustainable Applications" in the journal Silicon (Springer). The paper was published online in October 2025.

DOI: <https://doi.org/10.1007/s12633-025-03449-7>



Dr. P. Krishnan
ASSOCIATE PROFESSOR

Dr. P. Krishnan, Associate Professor, Department of Science, published a research paper titled "Effect of pH, optical properties, etching and piezoelectric analysis of boric acid mediated organo-metallic crystal: lithium boro dilactate" in the journal Applied Physics A (Springer, Oct 2025), DOI: <https://doi.org/10.1007/s00339-025-08955-4>



Dr. B. Subash
ASSOCIATE PROFESSOR

Dr. B. Subash, Associate Professor, Department of Science, has published a research article titled "SyzygiumCumini-assisted green synthesis of lead oxide nanoparticles (PbO-NPs): investigating the practical use of the PbO-SyzygiumCumini composite as corrosion inhibitor on mild steel in highly aggressive environment" in the Chemical Papers (Springer) journal. The article was published online on 6th September 2025, and is accessible online at DOI: <https://doi.org/10.1007/s11696-025-04327-7>.



STAFF ACHIEVEMENTS



RESEARCH PUBLICATIONS



Dr. T. L. Ajeesha

ASSISTANT PROFESSOR

Dr. T. L. Ajeesha, Assistant Professor, Department of Science, has published a research patent titled "Self-Healing Road Surface Using Nano-Chemical Agents and Embedded Sensors", which was published on 26th September 2025.



Dr. A. Mahalakshmi

ASSISTANT PROFESSOR

Dr. A. Mahalakshmi, Assistant Professor, Department of Science has published a research patent titled "Advanced Nanostructured Filters for Targeted Pollutant Removal in Water Treatment", which was published on 26th September 2025.



BOOK CHAPTER



Dr. N. Punitha

PROFESSOR

Dr. N. Punitha, Professor, Department of Science, has contributed a book chapter titled "Enhancing Real-Time Communication With Brain-Computer Interface Technologies", published by IGI Global Scientific Publishing in October 2025. The chapter is available online at DOI: 10.4018/979-8-3693-7427-6.ch009.





STAFF ACHIEVEMENTS



Notable Certifications Awareness Meeting



Dr. A. Mahalakshmi
ASSISTANT PROFESSOR



Dr. P. Krishnan
ASSOCIATE PROFESSOR



Dr. T. L. Ajeesha
ASSISTANT PROFESSOR

Dr. A. Mahalakshmi, Assistant Professor, **Dr. P. Krishnan** Associate Professor & **Dr. T. L. Ajeesha**, Assistant Professor, from the Department of Science, participated in the Awareness Meeting of UGC-DAE CSR on "Utilization of In-house and Large-Scale DAE Facilities" held on 23rd September 2025. The event was organized by the UGC-DAE Consortium for Scientific Research, Kalpakkam Centre, in collaboration with the Department of Nanoscience & Technology, Alagappa University, Karaikudi, and the Department of Physics, Madras Christian College, Chennai.





STAFF ACHIEVEMENTS



FDP Accomplished by Faculty



Dr. S. Kiruba
ASSOCIATE PROFESSOR



Dr. S. Suresh
ASSOCIATE PROFESSOR



Dr. N. Punitha
PROFESSOR



Dr. S. Rama
ASSISTANT PROFESSOR

Dr. S. Kiruba and Dr. S. Suresh, Associate Professors, Dr. N. Punitha, Professor, and Dr. S. Rama, Assistant Professor, from the Department of Science, participated in a National Level Online Faculty Development Programme on "Experimental and Computational Physics" organized by the Department of Physics, Bon Secours College for Women (Autonomous), Thanjavur, under the DBT Star Status Scheme, conducted from 6th to 10th October 2025.





STAFF ACHIEVEMENTS



FDP Accomplished by Faculty



Dr. K. Dhanaraj

ASSISTANT PROFESSOR

Dr. K. Dhanaraj, Assistant Professor, Department of Science, took part in a three-day International Faculty Development Programme (Online) on "Advanced Functional Materials", organized by the Department of Physics, Faculty of Engineering and Technology, Dr. M.G.R. Educational and Research Institute, Off Campus - Arni, conducted from 15th to 17th October 2025.





STAFF ACHIEVEMENTS



Notable Awards & Certification received by Faculty.



Dr. A. Uma Devi

ASSISTANT PROFESSOR

Dr. A. Uma Devi, Assistant Professor in the Department of Science, received the Academic Excellence Award 2025 from Scientific Research Reports (SRR Books), Chennai, in recognition of her exemplary service and valuable contributions towards the betterment of society.



Congratulations



STAFF ACHIEVEMENTS



NPTEL Course Accomplished by Faculty



Dr. A. Uma Devi

ASSISTANT PROFESSOR

Dr. A. Umadevi, Assistant Professor in the Department of Science, successfully completed the Python for Data Science course through NPTEL (National Programme on Technology Enhanced Learning) with a consolidated score of 72% [ELITE]. The course was conducted during the Jul-Aug 2025 session and was offered by Indian Institute of Technology Madras (IIT Madras).





STAFF ACHIEVEMENTS



Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. P. Saravanan (Associate Professor & Head)	European Food research and Technology	1	OCT
2	Dr. S. Suresh (Associate Professor)	Iranian Polymer journal	1	OCT
		Current Organic Chemistry	1	OCT
3	Dr. N. R. Rajagopalan (Associate Professor)	Optik	1	OCT
4	Dr. P. Krishnan (Associate Professor)	Chemical data collections	1	OCT
5	Dr. B. Subash (Associate Professor)	Chemical Physics Impact	1	OCT
		Current Analytical Chemistry	1	OCT





STAFF ACHIEVEMENTS



Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
6	Dr. K. Jayamoorthy (Associate Professor)	Mini Revives in Organic Chemistry	5	OCT
		International Journal of Clinical Microbiology	1	
		Materials Science in Semiconductor	2	
		Measurement	5	
		Chemistry Select	1	
		Microchemical Journal	1	
		Chemistry and Biodiversity	2	
		Journal of Molecular Structure	1	



THANK
YOU

