

You Choose, We Do It

St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, CHENNAI - 119



SEPTEMBER 2025

DEPARTMENT OF SCIENCE

NEWSLETTER



Authorized Linguaskill Agent



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





DEPARTMENT ACTIVITIES



CLUB ACTIVITIES



The Department of Science organized a Science and Music Club event on 19th September 2025 exclusively for first-year students. The Science Club provided a platform for students to showcase their curiosity and creativity through interactive experiments, quizzes, and discussions that promoted scientific thinking and innovation. Meanwhile, the Music Club encouraged students to express their artistic talents through singing, instrumental performances, and rhythm-based activities, creating a vibrant and joyful atmosphere.

Students participated enthusiastically in both clubs, engaging in a wide range of activities that nurtured their intellectual and creative skills. The event concluded with the recognition of the best three performers, who were awarded appreciation certificates for their outstanding contributions.



MUSIC CLUB





DEPARTMENT ACTIVITIES



CLUB ACTIVITIES- GLIMPSES



SCIENCE CLUB





DEPARTMENT ACTIVITIES



ALUMNI TALK



The Department of Science hosted an Alumni Talk for first-year ECE, EEE, and Chemical Engineering students on September 26, 2025, from 9:30 AM to 10:50 AM at the AV Hall - Library. The session, titled 'Wired for Success: Bits and Bytes, Career Bright,' was presented by Mr. Andrew David Bhagyam, a Senior Privacy Product Manager at Microsoft and an alumnus from the ECE batch (2012-2016). The talk provided valuable insights into career growth in the tech industry, particularly in privacy and data management, while offering inspiration and guidance for students pursuing careers in engineering and technology. Attendees gained practical knowledge about career pathways and the skills required to succeed in the fast-evolving tech landscape.



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

Dr. P. Saravanan
ASSOCIATE PROFESSOR &
HEAD

Dr. P. Saravanan, Associate Professor & Head, Department of Science, authored the article titled "Nanocatalytic upcycling of plastic waste: Advances in selective conversion technologies for sustainable high-value products recovery" published in the journal Results in Engineering (Impact Factor : 7.9), Volume 28, September 2025, with DOI: <https://doi.org/10.1016/j.rineng.2025.107042>



Dr. P. Saravanan
ASSOCIATE PROFESSOR &
HEAD

Dr. P. Saravanan, Associate Professor and Head, Department of Science, published a critical review article titled "Review on sequential catalysis for higher alcohols: overcoming barriers in direct CO₂ hydrogenation" in the journal Green Chemistry (Impact factor 9.2) in Sep 2025. The article is available online with the DOI: 10.1039/d5gc03160e.



Dr. N. R. Rajagopalan
ASSOCIATE PROFESSOR

Dr. N. R. Rajagopalan, Associate Professor, Department of Science, published a research article titled "Investigation of the Optical, Thermal, Dielectric, Electrical, and Impedance Features of Zinc-Doped Urea-L-Malic Crystals" in the journal Physics of the Solid State in 2025. The article is available online with the DOI: 10.1134/S106378342560195X.



Dr. N. Punitha
PROFESSOR

Dr. N. Punitha, Professor in the Department of Science, co-authored the article titled Investigation of the structural, hirshfeld surface, DFT, spectroscopic, and nonlinear optical properties of (E)-2-(3-Ethoxy-4-hydroxybenzylidene) hydrazinecarboxamide. The paper was published in the Journal of Molecular Structure in August 2025 (Volume 1349, Article 143825) and is available online via the DOI: <https://doi.org/10.1016/j.molstruc.2025.143825>



STAFF ACHIEVEMENTS



RESEARCH PUBLICATIONS



Dr. K. Jayamoorthy
ASSOCIATE PROFESSOR

Dr. K. Jayamoorthy, Associate Professor in the Department of Science, authored the article titled Ni-doped ZnS nanoparticles encapsulated in polypropylene glycol: exploring synthesis, structural integrity, optical behavior and thermal stability. This research paper was published in the Journal of Materials Science: Materials in Electronics in September 2025 (Volume 36, Article 1580) and is available online via the DOI: <https://doi.org/10.1007/s10854-025-15568-3>.



Dr. K. Jayamoorthy
ASSOCIATE PROFESSOR

Dr. K. Jayamoorthy, Associate Professor in the Department of Science, co-authored the article titled Improved corrosion resistance of mild steel with poly (vinyl pyridine) incorporated zinc phosphate coating. The paper was published in the Journal of the Taiwan Institute of Chemical Engineers in September 2025 (Volume 178, Article 106363) and is available online via the DOI: <https://doi.org/10.1016/j.jtice.2025.106363>



Dr. S. M. Prakash
ASSISTANT PROFESSOR

Dr. S. M. Prakash, Assistant Professor, Department of Science, authored the article titled "Assessment of Soil and Groundwater Contamination Due to E-Waste Disposal Using Geospatial Technique" published in the International Journal of Environmental Sciences, Vol. 11, No. 8s, 2025. The article is available at <https://www.theaspd.com/ijes.php>.



Dr. K. Satheskumar
ASSISTANT PROFESSOR

Dr. K. Satheskumar, Assistant Professor, Department of Science, authored the article titled "Effect of Pr doping concentration on optical, antibacterial and photocatalytic properties of ZnO Nanoparticles." published in the journal Semiconductor Volume 59, pages 888-899, (SEP 2025). The article is available at <https://link.springer.com/article/10.1134/S1063782625601566>

**STAFF ACHIEVEMENTS****RESEARCH PUBLICATIONS****Dr. C. Chandrasatheesh**

ASSISTANT PROFESSOR

Dr. C. Chandrasatheesh, Assistant Professor in the Department of Science, has published a research article titled "Br-modified nitrogen-rich g-C₃N₅ integrated α -Fe₂O₃ heterostructures for efficient electrocatalytic water splitting and norfloxacin detoxification under LED lighting" in the journal Separation and Purification Technology. The article was published in October 2026 and is available online from September 23, 2025. The publication can be accessed through the DOI: <https://doi.org/10.1016/j.seppur.2025.135332>

**Dr. T. L. Ajeesha**

ASSISTANT PROFESSOR

Dr. T. L. Ajeesha, Assistant Professor, Department of Science, published an Indian Patent titled "Self-Healing Road Surface Using Nano-Chemical Agents And Embedded Sensors" on 26th September 2025.





STAFF ACHIEVEMENTS



NPTEL Courses Accomplished by Faculty



Dr. A. Arulmozhi

ASSISTANT PROFESSOR



Dr. V. Swarnalatha

ASSISTANT PROFESSOR



Dr. A. Mahalakshmi

ASSISTANT PROFESSOR



Dr. J. Sharmila

ASSISTANT PROFESSOR



Mrs. S. Savitha

ASSISTANT PROFESSOR

Dr. A. Arulmozhi, Dr. V. Swarnalatha, Dr. A. Mahalakshmi, Dr. J. Sharmila, and Dr. S. Savitha, Assistant Professors in the Department of Science, successfully completed the NPTEL course on Energy Conversion Technologies (Biomass and Coal) offered by the Indian Institute of Technology Guwahati during the Jul-Sep 2025 session. They achieved consolidated scores of 70%[Elite], 60%[Elite], 65%[Elite], 67%[Elite], and 75%[Elite & Silver] respectively, reflecting their dedication to enhancing knowledge in the field of sustainable energy technologies.



Congratulations



STAFF ACHIEVEMENTS



NPTEL Courses Accomplished by Faculty



Dr. G. Senthil Murugan

ASSISTANT PROFESSOR

Dr. G. Senthil Murugan, Assistant Professor in the Department of Science, successfully completed the Solar Photovoltaics Fundamentals, Technology, and Applications course through NPTEL (National Programme on Technology Enhanced Learning) with a consolidated score of 65% [ELITE]. The course was conducted during the Jul-Sep 2025 session and was offered by Indian Institute of Technology Roorkee (IIT Roorkee).

CERTIFICATES





STAFF ACHIEVEMENTS



FDP Accomplished by Faculty



Dr. A. Mahalakshmi

ASSISTANT PROFESSOR

Dr. A. Mahalakshmi, Assistant Professor, Department of Science, successfully completed a 6-day Faculty Development Program (FDP) on "Mastering Digital Pedagogy: Tools, Techniques, and Content Creation Strategies" organized by the Department of Research and Development, Indra Ganesan Institutions, in association with the Institution's Innovation Council, held from 15th to 20th September 2025.



Dr. N. R. Rajagopalan

ASSOCIATE PROFESSOR

Dr. N. R. Rajagopalan, Associate Professor, Department of Science, successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on Recent Advances and Applications of Manufacturing in Industry 4.0 organized by V V College of Engineering, held from 22nd to 27th September 2025.



Mr. S. Kaleel Mohamed Ibrahim

ASSISTANT PROFESSOR

Mr. S. Kaleel Mohamed Ibrahim, Assistant Professor, Department of Science, successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Semiconductor Design for Real World AI Applications" organized at Bannari Amman Institute of Technology from 15th to 20th September 2025.



Dr. P. Krishnan

ASSOCIATE PROFESSOR

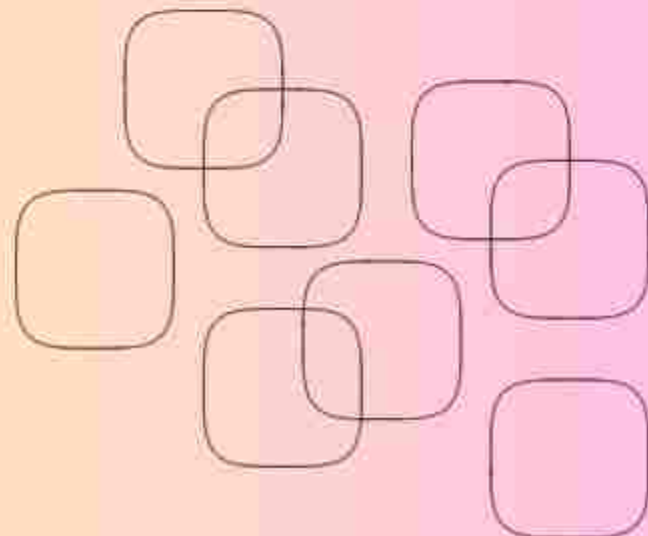
Dr. P. Krishnan, Associate Professor, Department of Science, participated in the National Level Five Days Virtual Faculty Development Programme on "IPR in Academia: Awareness, Application and Advancement" organized by the Research & Development Committee in association with the PG & Research Department of Commerce, Holy Cross Home Science College, Thoothukudi, from 18 August - 22 August 2025.



STAFF ACHIEVEMENTS



FDP Certificates





STAFF ACHIEVEMENTS



Notable Awards & Certification received by Faculty



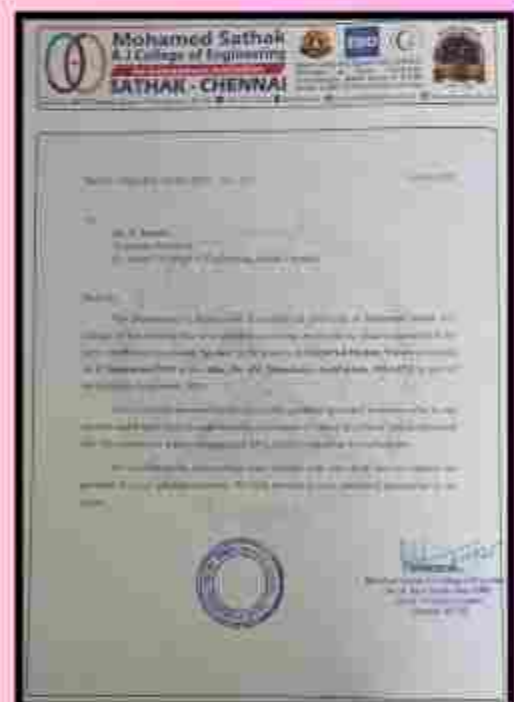
Dr. S. SURESH

ASSOCIATE PROFESSOR

Dr. S. Suresh, Associate Professor, Department of Science, received an NPTEL honorarium of ₹13,125 for his contribution as a translator for the course "Applied Ergonomics" offered by IIT Madras



Dr. S. Suresh, Associate Professor, Department of Science, served as a Guest Speaker in a session on Universal Human Values organized by the Department of Science and Humanities & NSS Cell of Mohamed Sathak A.J. College of Engineering on 1st September 2025. His insightful presentation and guidance greatly benefited students during the Induction Programme 2025, leaving a positive impact on the participants.





STAFF ACHIEVEMENTS



Notable Awards & Certification received by Faculty



Dr. P. Krishnan
ASSOCIATE PROFESSOR

Dr. P. Krishnan, Associate Professor, Department of Science, received a Certificate of Appreciation from the Australian Awards in recognition of his ongoing contributions and dedicated efforts in the field of Excellence in Nanoscience Innovation.



Dr. P. Krishnan, Associate Professor, Department of Science, assessed oral presentations and served as a judge at the International Conference on Modern Functional Materials (ICMFM-2025) organized by the Functional Materials Research Laboratory, Department of Humanities and Sciences (Physics), Sri Sairam Engineering College, Chennai, held on 11 and 12 September 2025.



CONGRATULATIONS



STAFF ACHIEVEMENTS



Notable Awards & Certification received by Faculty



Dr. P. Krishnan

ASSOCIATE PROFESSOR

Dr. P. Krishnan, Associate Professor, Department of Science, attended the editorial workshop "Editorial Integrity and Innovation: Navigating Medical Publishing in the Indian Context" organized by Scientific Scholar on 20th September 2025. The workshop focused on best practices, editorial ethics, and innovations in Indian medical publishing.

Dr. P. Krishnan, Associate Professor, Department of Science, was appointed as a member of the doctoral committee for PhD scholar Ms. Amritha Charu V at the Centre for Research, Anna University, Chennai.





STAFF ACHIEVEMENTS



Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. S. Suresh (Associate Professor)	Current Organic Chemistry	1	SEP
2	Dr. N. R. Rajagopalan (Associate Professor)	Review History Report	1	SEP
3	Dr. K. Jayamoorthy (Associate Professor)	Current Organic Chemistry	1	SEP
		Measurement	2	
		Journal of Molecular Structure	2	
4	Dr. B. Subash (Associate Professor)	Current Analytical Chemistry	1	SEP
5	Dr. K. Dhanaraj (Assistant Professor)	ChemPhysMater	1	SEP



THANK
YOU



STAFF ACHIEVEMENTS

Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. S. Suresh (Associate Professor)	Physica Status Solidi (A)	1	AUG
2	Dr. N. R. Rajagopalan (Associate Professor)	Journal of Cardiovascular Electrophysiology	1	AUG
3	Dr. K. Jayamoorthy (Associate Professor)	Journal of Photochemistry & Photobiology, B_ Biology	3	AUG
		Current Organic Chemistry	1	
		Chemistry and Biodiversity	1	
		Mini-Reviews in Organic Chemistry	3	
		Journal of Molecular Structure	2	
4	Dr. P. Krishnan (Associate Professor)	Current Nanoscience	1	AUG

