



*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
 OMR, CHENNAI - 119



**JUNE 2025**

**DEPARTMENT OF  
 SCIENCE  
 NEWSLETTER**



NATIONAL  
 INSTITUTIONAL  
 RANKING  
 FRAMEWORK



## 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

### SCHOOL EVENT PROGRAM

The Department of Science was represented by W.P.A. Soundarapandian Higher Secondary School at the Engineering Excellence event held on 25th June 2025 at St. Joseph's College of Engineering. A total of 98 students from the department participated actively, comprising 70 boys and 28 girls, marking a significant contribution to the event.

The enthusiastic involvement of the students reflected their strong interest in engineering and technology fields. Their participation added substantial value to the event, which saw a total of 390 students from four reputed schools across the Chennai region.

The event was further enriched by the presence of distinguished guest speakers – Mr. Senthil Kumar P., Chief Manager – HR, American Megatrends India Pvt. Ltd. (AMI), and Ms. M.F. Febin, Head – L&T EduTech, Larsen & Toubro Limited. Their insightful sessions inspired and motivated the students, offering valuable perspectives on career opportunities and developments in the engineering and technology sectors.



**STAFF ACHIEVEMENTS****RESEARCH PATENTS****Dr. P. Saravanan**ASSOCIATE PROFESSOR  
& HEAD

Dr. P. Saravanan, Associate Professor and Head of the Department of Science, successfully published an Indian patent on June 6, 2025. The patent, titled "AGRO EYE – AI-Powered Soil Health Assessment Drone," was developed under his mentorship in collaboration with first-year ECE students Mr. Vedhaswaruban S, Ms. Rupika Sri S, and Ms. Swetha S.

**Dr. N. Punitha**

PROFESSOR

Dr. N. Punitha, Professor from the Department of Science, has published an Indian patent titled " Innovative Energy Storage Devices Utilizing; Graphene Nanostructures" on May 16, 2025.

**Dr. P. Krishnan**

ASSOCIATE PROFESSOR

Dr. P. Krishnan, Associate Professor from the Department of Science, has published an Indian patent titled "Enhanced Thermoelectric Performance Of Nanostructured Materials For High-efficiency Energy Conversion " on June 6, 2025.

**Dr. S. M. Prakash**

ASSISTANT PROFESSOR

Dr. S. M. Prakash, Assistant Professor from the Department of Science, has published an Indian patent titled "A Method for Synthesizing Biodegradable Polymers Using Eco-Friendly Catalysts and Renewable Feedstocks" on June 6, 2025.

**Dr. A. Mahalakshmi**

ASSISTANT PROFESSOR

Dr. A. Mahalakshmi, Assistant Professor in the Department of Science, successfully published an Indian patent on June 13, 2025. The patent, titled "AI-Based Submersible Drain Inspection and Neutralization Robot," was developed under her mentorship in collaboration with first-year ECE students: Mr. R. K. Boomesh, Ms. N. Boomiga, Ms. S. Selvapriya, Mr. K. Sathyasilan, Ms. P. Hemalatha, Mr. S. Dharmesh, Ms. T. A. Sreenidhi, Mr. S. Sugakumar, and Mr. V. Roshan.



## STAFF ACHIEVEMENTS



### TOP PERFORMING MENTOR

Faculty members from the Department of Science, including Dr. P. Saravanan (Associate Professor & Head), Dr. N. Punitha, Dr. S. Suresh, Dr. N. R. Rajagopalan, and Dr. P. Krishnan (Associate Professors), along with Dr. V. Swarnalatha, Dr. A. Uma Devi, Dr. T. Sharmila, Dr. S. Rama, Mr. S. Kaleel Mohamed Ibrahim, Ms. S. Savitha, Dr. K. Satheshkumar, Dr. G. Sasikumar, Dr. K. Dhanaraj, and Dr. C. Chandrasatheesh (Assistant Professors), were honored as Top Performing Mentors by NPTEL. This recognition was awarded for their exemplary mentorship of first-year students during the Jan-Apr 2025 certification program, reflecting their dedication and valuable support in enhancing student achievement in NPTEL courses.

**DEPARTMENT OF SCIENCE**  
  
**TOP PERFORMING MENTORS**  
 (For Mentoring I year students in NPTEL certification program during Jan - Apr 2025)

 Dr. P. Saravanan Associate Professor & Head	 Dr. N. Punitha Professor	 Dr. S. Suresh Associate Professor	
 Dr. N. R. Rajagopalan Associate Professor	 Dr. P. Krishnan Associate Professor	 Dr. V. Swarnalatha Assistant Professor	 Dr. A. Uma Devi Assistant Professor
 Dr. T. Sharmila Assistant Professor	 Mr. S. Kaleel Mohamed Ibrahim Assistant Professor	 Ms. S. Savitha Assistant Professor	 Dr. K. Satheshkumar Assistant Professor
 Dr. S. Rama Assistant Professor	 Dr. G. Sasikumar Assistant Professor	 Dr. K. Dhanaraj Assistant Professor	 Dr. C. Chandrasatheesh Assistant Professor

*Congratulations*



## STAFF ACHIEVEMENTS



### NOTABLE CERTIFICATIONS



**Dr. N. R. Rajagopalan**  
ASSOCIATE PROFESSOR

**Dr. N. R. R. Rajagopalan, Associate Professor in the Department of Science, delivered an Invited Talk at the International Conference on Engineering, Medicine, Management, Arts and Sciences (ICEMMA-2025). The conference was organized by the Chendur Research Foundation and held from May 30 to June 1, 2025.**



**Dr. P. Krishnan, Associate Professor in the Department of Science, was awarded a Certificate of Recognition by SRM Institute of Science and Technology, Vadapalani, Chennai, for his significant contribution as a Review Committee Member at the International Conference on Computing and Emerging Technologies for Sustainable Planet (ICETSP'25), held on April 16–17, 2025.**



**Dr. P. Krishnan**  
ASSOCIATE PROFESSOR

**Dr. P. Krishnan and Mrs. Savitha from the Department of Science participated in the NEP 2020 Orientation and Sensitization Programme held from May 5 to 16, 2025. The programme was conducted as part of the Malaviya Mission Teacher Training Programme (MM-TTP), an initiative by the University Grants Commission (UGC), and was organized by the Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kancheepuram, Chennai**





## STAFF ACHIEVEMENTS



### NOTABLE CERTIFICATIONS



**Dr. A. Uma Devi**

ASSISTANT PROFESSOR

Dr. Uma Devi A Assistant professor from from the Department of Science, successfully completed the NEP 2020 Orientation & Sensitization Programme (Batch 13) under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC). The training was conducted by the Malaviya Mission Teacher Training Centre, Saurashtra University, Rajkot, from 5th May 2025 to 14th May 2025, and she was awarded a commendable Grade "A++".



**Dr. K. Dhanaraj**

ASSISTANT PROFESSOR

Dr. K. Dhanaraj, from the Department of Science participated in the NEP 2020 Orientation and Sensitization Programme held from May 5 to 16, 2025. The programme was conducted as part of the Malaviya Mission Teacher Training Programme (MM-TTP), an initiative by the University Grants Commission (UGC), and was organized by the Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kancheepuram, Chennai.





## STAFF ACHIEVEMENTS



### NOTABLE CERTIFICATIONS



**Dr. N. Punitha**

PROFESSOR

Dr. N. Punitha, Professor from the Department of Science, actively participated in a One-Week Faculty Development Programme on the topic "Research Methodology and Effective Teaching Learning Process". The FDP was jointly organized by the Department of Basic Science & Humanities and the R&D Cell of Greater Kolkata College of Engineering & Management. Held from 9th to 13th June 2025, her involvement and contribution were highly appreciated by the organizing committee.

Dr. N. Punitha, Professor from the Department of Science, participated as a presenter and co-author of the paper titled "A Cryptographic Revolution Using Quantum Networking for Secure Communication" at the 6th International Conference on Data Analytics and Management (ICDAM-2025). The conference took place from 13th to 15th June 2025 and was jointly organized by London Metropolitan University (UK), WSG University (Poland), Portalegre Polytechnic University (Portugal), and SGGW Management Institute (Poland).



**Dr. K. Sathesh Kumar**

ASSISTANT PROFESSOR

Dr. K. Sathesh Kumar, Assistant Professor from the Department of Science, successfully completed the Faculty Development Program titled "AI Mastery for Educators" organized by Vishlesan i-HUB IIT Patna. The program was conducted from 15th May 2025 to 7th June 2025, and he was awarded a Certificate of Participation for his involvement.



## STAFF ACHIEVEMENTS



### NOTABLE CERTIFICATIONS



**Dr. S. Suresh**

ASSOCIATE PROFESSOR

Dr. Suresh S., Associate Professor from the Department of Science, received a Certificate of Appreciation for his role as a Faculty/Industry Peer Evaluator at the Tech Star Summit 2025, conducted by SIMATS Engineering under the Saveetha Transdisciplinary Annual Research Summit, held on 20th June 2025.



Dr. S. Suresh, Associate Professor in the Department of Science, successfully completed the translation editing task using the Machine Learning Tool – Chitralkha for the Tamil language. This was part of the NPTEL course "Applied Ergonomics" (Course Code: 112104222), and the task was accomplished on June 11, 2025, with a total of 4.75 edited hours.





# STAFF ACHIEVEMENTS



## Faculty Internship



**Dr. S. M. Prakash**

ASSISTANT PROFESSOR



**Dr. V. Swarnalatha**

ASSISTANT PROFESSOR



**Mrs. S. Savitha**

ASSISTANT PROFESSOR



**Dr. J. Sharmila**

ASSISTANT PROFESSOR

Four faculty members from the Department of Science Dr. Swarnalatha V, Mrs. S. Savitha, Dr. J. Sharmila, and Dr. Prakash S. M. successfully completed a 6-day internship program at Micro Therapeutic Research Labs Pvt. Ltd., Chennai, from 16th to 21st June 2025. During the internship, they gained exposure to various processes in Analytical and Clinical Research and were commended for their diligence, hard work, and inquisitiveness.



## STAFF ACHIEVEMENTS

### Faculty Internship

#### CENTRE OF ENGINEERING EDUCATION EXCELLENCE (CEEE)



Dr. S. Kiruba, Dr. N. R. Rajagopalan, Dr. B. Subash, Dr. K. Jayamoorthy, Dr. S. Manikandan, Dr. S. Rama, and Dr. G. Sasikumar from the Department of Science have been selected to attend the Centre of Engineering Education Excellence (CEEE) Program 2025 at IIT Madras, under the domain of Civil and Environmental Engineering. Additionally, Dr. P. Krishnan, Dr. K. Dhanaraj, and Dr. A. Dhivya will participate in the same program at IIT Delhi, focusing on Materials, Chemical, and Biomedical Engineering. The AICTE-initiated program, scheduled from 23rd June to 4th July 2025, aims to promote educational excellence in engineering. Each faculty member will receive a stipend of ₹50,000 in recognition of their participation.



## STAFF ACHIEVEMENTS

### Faculty Internship

#### CENTRE OF ENGINEERING EDUCATION EXCELLENCE (CEEE)



**DEPARTMENT OF SCIENCE**

*Congratulations*

**CENTRE FOR ENGINEERING EDUCATION EXCELLENCE (CEEE)**

*DOMAIN: MATERIALS, CHEMICAL AND BIOMEDICAL ENGINEERING*



**Venue: IIT – Kharagpur**

**Date: 30.06.2025 – 11.07.2025**



**Dr. P. Saravanan**  
Associate Professor and Head







**Mrs. S. Savitha**  
Assistant Professor

*DOMAIN: CIVIL AND ENVIRONMENTAL ENGINEERING*

 <b>Dr. N. Punitha</b> Professor	 <b>Dr. S. Suresh</b> Associate Professor	 <b>Dr. A. Arulmozhi</b> Assistant Professor	 <b>Dr. A. Mahalakshmi</b> Assistant Professor	 <b>Dr. K. Sathesh Kumar</b> Assistant Professor
 <b>Dr. V. Swarnalatha</b> Assistant Professor	 <b>Dr. A. Uma Devi</b> Assistant Professor	 <b>Dr. J. Sharmila</b> Assistant Professor	 <b>Dr. S. M. Prakash</b> Assistant Professor	 <b>Dr. C. Chandrasatheesh</b> Assistant Professor

**Venue: IIT – Kanpur**

**Date: 07.07.2025 – 18.07.2025**



**Stipend**  
Rs.50,000/-

Dr. P. Saravanan, Associate Professor and Head, and Mrs. S. Savitha, Assistant Professor from the Department of Science, have been selected for the AICTE-sponsored Centre for Engineering Education Excellence (CEEE) Program 2025. They will attend the training at IIT Kharagpur from 30th June to 11th July 2025 under the domain of Materials, Chemical, and Biomedical Engineering and will each receive a stipend of ₹50,000.

Additionally, Dr. S. M. Prakash, Dr. J. Sharmila, Dr. A. Uma Devi, Dr. N. Punitha, Dr. S. Suresh, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Dr. V. Swarnalatha, Dr. K. Sathesh Kumar and Dr. C. Chandrasatheesh have been selected to attend the same program at IIT Kanpur from 7th July to 18th July 2025 under the domain of Civil and Environmental Engineering. Each faculty member will receive a stipend of ₹50,000 in recognition of their participation.

# STAFF ACHIEVEMENTS



## Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. N. R. Rajagopalan (Associate Professor)	Physics and Chemistry of the Earth, Parts A/B/C	1	JUNE
2	Dr. S. Suresh (Associate Professor)	Current Organic Chemistry	1	JUNE
3	Dr. P. Krishnan (Associate Professor)	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	1	JUNE
		Material Physics	1	JUNE
4	Dr. K. Dhanaraj	Spectrochimica Acta Part A: Molecular and	1	JUNE



**STAFF ACHIEVEMENTS****Journal Reviewing certifications**

S.No	Name of the staff	Journal reviewed	No. of Article	Month
5	Dr. K. Jayamoorthy (Associate Professor)	Current Organic Chemistry	2	JUNE
6		Journal of Photochemistry & Photobiology, B: Biology	2	JUNE
7		Current Organic Chemistry (Bentham Science Publishers)	1	JUNE
8		scholarly book proposal for Taylor & Francis	1	JUNE

