

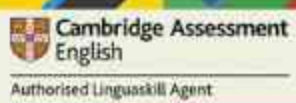


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St. JOSEPH'S COLLEGE OF ENGINEERING
 (An Autonomous Institution)
St. Joseph's Group of Institutions
 OMR, CHENNAI - 119



MAY 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.



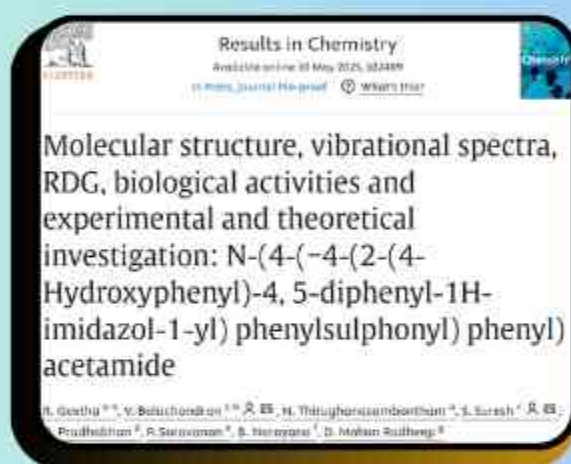
To create awareness of the potential of Science and scope of its applications to the diversified areas of engineering and technology in industries and research. To secure a pass percentage of above 95% results in university examinations

STAFF ACHIEVEMENTS

RESEARCH PUBLICATIONS



Dr. P. Saravanan, Associate Professor and Head of the Department of Science, has published a research article titled "Molecular structure, vibrational spectra, RDG, biological activities and experimental and theoretical investigation: N-(4-(4-(2-(4-Hydroxyphenyl)-4,5-diphenyl-1H-imidazol-1-yl)phenylsulphonyl)phenyl)acetamide" in the journal *Results in Chemistry*. The article can be accessed at <https://doi.org/10.1016/j.rechem.2025.102409>.



Dr. G. Senthil Murugan, Assistant Professor in the Department of Science, published a research article titled "Spin Dynamics and 1/3 Magnetization Plateau in the Coupled Distorted Diamond Chain Compound $K_2Cu_3(MoO_4)_4$ " in the journal *Physical Review (Impact Factor: 3.92)* on April 21, 2025.



STAFF ACHIEVEMENTS

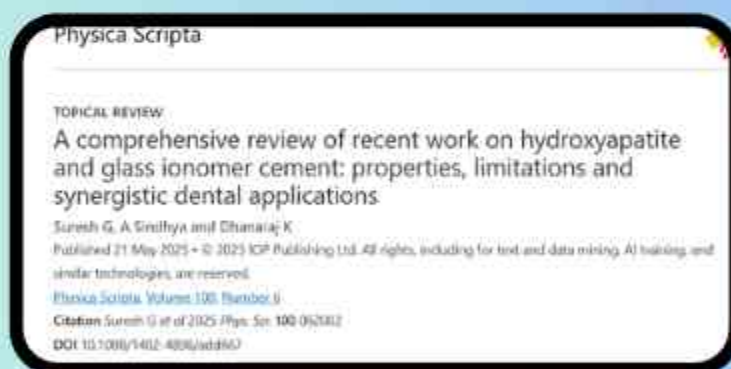
RESEARCH PUBLICATIONS



Dr. K. Jayamoorthy, Associate Professor in the Department of Science, has published a research article titled "Imidazole derivatives synthesis: exploring different methods" in the journal Phosphorus, Sulfur, and Silicon and the Related Elements. The article is accessible via the DOI: [10.1080/10426507.2025.2498440](https://doi.org/10.1080/10426507.2025.2498440).



Dr. K. Dhanraj, Assistant Professor in the Department of Science, has published a research article titled "A Comprehensive Review of Recent Work on Hydroxyapatite and Glass Ionomer Cement: Properties, Limitations, and Synergistic Dental Applications" in the journal Physica Scripta. The article is accessible via the DOI: <https://doi.org/10.1088/1402-4896/add667>



Dr. G. Sasikumar, Assistant Professor in the Department of Science, has recently published a research article titled "Sustainable Epoxy Composites Enhanced by Cellulose Nanocrystals for Structural and Thermal Applications" in the Journal of Polymer and Composites, Volume 13, Issue 03, pages 126–134. The article was published on May 10, 2025, and can be accessed through the DOI link: <https://doi.org/10.37591/JOPC.v13i03.210188>.

STAFF ACHIEVEMENTS

RESEARCH PATENTS



Dr. N. Punitha, Professor in the Department of Science, has published two patents on April 25, 2025. The titles of the patents are: "Role of Soft Skills in Recent Trends of the Technological World" and "Multilayer Nanostructured Titanium Dioxide, Silicon Dioxide, Alumina, and Silicon Nitride Coatings for Enhanced Solar Cell Performance."



Dr. A. Arulmozhi, Assistant Professor in the Department of Science, published a patent titled "Nano-Engineered Solar Devices for Eco-Friendly Waste Recycling" on April 25, 2025



Dr. P. Krishnan, Associate Professor in the Department of Science, published a patent titled "3D Printed Meta-Materials with AI-Optimized Lattice Structures for Customized Mechanical Properties" on May 9, 2025.



Dr. C. Chandrasatheesh, Assistant Professor in the Department of Science, published a patent titled "Elevating Agriculture: Advanced hops classification for precision crop management and quality harvests" on May 30, 2025





STAFF ACHIEVEMENTS



Dr. G. Senthil Murugan, Assistant Professor in the Department of Science, has successfully completed the NPTEL Online Certification course titled "Experimental Nanobiotechnology", offered by the Indian Institute of Technology Roorkee during the February–March 2025 session. He earned an Elite with Silver certificate, achieving an impressive consolidated score of 75%.



Dr. B. Subash, Associate Professor in the Department of Science, has successfully completed the NPTEL Online Certification course titled "Chemistry of Main Group Elements", offered by the Indian Institute of Technology Bombay during the January–April 2025 session. He earned an Elite with Silver certificate, achieving an impressive consolidated score of 75%.



Dr. G. Sasikumar, Assistant Professor in the Department of Science, has successfully completed the NPTEL Online Certification course "Chemistry of Main Group Elements", offered by the Indian Institute of Technology Bombay during the January–April 2025 session. He was awarded an Elite certificate, securing a commendable consolidated score of 73%.



Dr. C. Chandrasatheesh, Assistant Professor in the Department of Science, has successfully completed the NPTEL Online Certification course titled "Chemistry of Main Group Elements", conducted by the Indian Institute of Technology Bombay during the January–April 2025 session.





STAFF ACHIEVEMENTS



NOTABLE CERTIFICATIONS

Dr. P. Saravanan, Associate Professor and Head of the Department of Science, successfully served as the Conference Chair for the First International Conference on Research Communications in Engineering, Science and Management (ICRCESM) – 2025. Held online on 30th and 31st May 2025, the conference was jointly organized by the Departments of Mechanical, Management, Electrical, Electronics, Civil, and Computer Science at Ramachandra College of Engineering (Autonomous), Eluru, Andhra Pradesh, in collaboration with RSP Research Hub, Coimbatore, Tamil Nadu.

First International Conference on Research Communications in Engineering, Science and Management (ICRCESM)-2025

Jointly Organized by: M2E2C2 (Mechanical, Management, Electrical, Electronics, Civil and Computer Science Engineering Departments), Ramachandra College of Engineering (A), Eluru, Andhra Pradesh, India & RSP Research Hub, Coimbatore, Tamil Nadu, India.

MODE OF DELIVERY: ONLINE

CONFERENCE CHAIR

Conference Dates
30.05.2025 & 31.05.2025

Dr. P. Saravanan
Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.

Scan QR for Register

Registration Link:
tinyurl.com/ICRCESM2025

CERTIFICATE OF RECOGNITION

This Certificate is Proudly Presented to

Dr. P. Saravanan

Associate Professor,
Department of Chemistry, St. Joseph's College of Engineering,
Chennai, Tamil Nadu, India.

For the Valuable Presence & Contribution as a Conference Chair

of the "First International Conference on Research Communications in Engineering, Science and Management (ICRCESM)-2025". Jointly Organized by: M2E2C2 (Mechanical, Management, Electrical, Electronics, Civil and Computer Science Engineering Departments), Ramachandra College of Engineering (A), Eluru, Andhra Pradesh, India & RSP Research Hub, Coimbatore, Tamil Nadu, India on 30.05.2025 & 31.05.2025.

Dr. P. Saravanan
Associate Professor
Department of Chemistry
St. Joseph's College of Engineering
Chennai, Tamil Nadu, India.

Dr. R. Srinivasan
RSP Research Hub
Coimbatore, Tamil Nadu, India.

Dr. Srinivasan
RSP Research Hub
Coimbatore, Tamil Nadu, India.

Dr. M. Srinivasan
RSP Research Hub
Coimbatore, Tamil Nadu, India.

Communications in Engineering, Science and Management (ICRCESM)-2025

Mode of Delivery : Online

Conference Chair

Conference Dates
30.05.2025 & 31.05.2025

Dr. P. Saravanan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. R. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. M. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. P. Saravanan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.
Dr. R. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. M. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. P. Saravanan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. R. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.
Dr. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. M. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. P. Saravanan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. R. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.
Dr. M. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. P. Saravanan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. R. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.	Dr. M. Srinivasan Associate Professor, Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India.

Registration Link:
tinyurl.com/ICRCESM2025



STAFF ACHIEVEMENTS

NOTABLE CERTIFICATIONS



Dr. A. Mahalakshmi, Assistant Professor in the Department of Science, has successfully completed a Faculty Development Programme titled "QT-02 Foundations of Quantum Technologies", held from April 11 to May 03, 2025. The programme consisted of 40 hours (equivalent to 3 academic credits) and was organized by the Electronics & ICT Academies of MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, and NIT Warangal.

Dr. A. Uma Devi, Assistant Professor in the Department of Science, successfully completed an internship training program at Tamilnadu Petroproducts Limited, Manali, from 19th to 24th May 2025. During the six-day program, she was assigned to the Production and Quality Assurance Departments.





STAFF ACHIEVEMENTS



NOTABLE CERTIFICATIONS

Dr. A. Arulmozhi (Assistant Professor), Dr. N. Punitha (Professor), and Dr. A. Mahalakshmi (Assistant Professor) from the Department of Science successfully participated in the Professional Development Programme titled "Crafting COs, POs, and PEOs," organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chennai. The programme was held in offline mode from May 19 to 23, 2025, and comprised 30 notional learning hours.



Dr. S. M. Prakash, Assistant Professor in the Department of Science, successfully completed two transcription editing tasks using the Machine Learning Tool – Chitralekha for NPTEL courses offered by IIT Madras. He contributed 9.25 hours of edited content to the course "Computational Fluid Dynamics" (Course Code: 103106119) and 7.75 hours to the course "Waste to Energy Conversion" (Course Code: 103107125).





STAFF ACHIEVEMENTS



PROFESSIONAL BODIES CERTIFICATIONS

The faculty members Dr. S. Suresh, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Dr. G. Senthilmurugan, Dr. K. Jayamoorthy and Dr. Chandrasatheesh C from the Department of Science were awarded Life Membership in the International Association of Engineers (IAENG) in May 2025. This esteemed recognition underscores their commitment to fostering collaboration among engineers and advancing the practical application of engineering knowledge from academia to industry.



STAFF ACHIEVEMENTS



Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. P. Saravanan (Associate Professor & Head)	Discover Chemistry (Springer)	1	MAY
2	Dr. N. R. Rajagopalan (Associate Professor)	American Journal of Applied and Industrial Chemistry (AJAIC)	1	MAY
3	Dr. P. Krishnan (Associate Professor)	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2	MAY
4	Dr. S. Suresh (Associate Professor)	Current Organic Chemistry	1	MAY



STAFF ACHIEVEMENTS



Journal Reviewing certifications

S.No	Name of the staff	Journal reviewed	No. of Article	Month
1	Dr. K. Jayamoorthy (Associate Professor)	Nuclear Inst. and Methods in Physics Research, B	1	MAY
2		Mini-Reviews in Organic Chemistry	2	MAY
3		Current Organic Chemistry	5	MAY
4		Desalination	1	MAY
5		Journal of Molecular Structure	2	MAY
6		International Journal of Biological Macromolecules	1	MAY
7		Journal of Photochemistry & Photobiology, B: Biology	1	MAY
8		Chemical Physics Impact	2	MAY
9		Measurement	1	MAY
10		Materials Science in Semiconductor Processing	1	MAY
11		Separation and Purification Technology	2	MAY

STAFF ACHIEVEMENTS



Academic Professionals Award



Dr. P. Saravanan (Head) and Dr. P. Krishnan, Associate Professors in the Department of Science, have been honored with the IGEN EnerGathon Award 2024 in the Academic Professionals Award for Research Publication category. This prestigious recognition celebrates their outstanding contributions to academic research in their respective fields.

Congratulations



Anouncement of

IGEN ENERGATHON AWARDS 2024

3. Industry Professional Award

- Dr. P.S.Kumar-Prithvi glow and health care Pvt Ltd
- Dr. J.Aran Glenn- OLA Electric Mobility Ltd., Bengaluru

4. Academic Professionals Award for Research publication

- Dr. P. Jayaprakash-St. Joseph's Institute of Technology
- Dr. P. KRISHNAN-St. Joseph's College of Engineering
- Dr. L.SaiRamesh-St. Joseph's Institute of Technology
- Dr. P. Saravanan-St. Joseph's College of Engineering

CELEBRATE WITH US!

Dr. P. Saravanan-St. Joseph's College of Engineering

Electric Mobility Limited, Bangalore. So, congratulatio

