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



FEBRUARY 2026

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.No.	Title of the Events and Photographs	Details of the Event
1.	GUEST LECTURE	The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering successfully organized a Guest Lecture on "Next Generation AI Technologies and their Real World Applications" for the Third Year ADS students on 24th February 2026 from 08:20 AM to 10:20 AM at the AV Hall (Library). The session was delivered by Ms. Poongodi N, Software Developer at Approtech R&D Solutions Private Limited, an ISO 9001:2015 certified company.

ADS CLUB ACTIVITY

2.



St. Joseph's College of Engineering proudly presents IMPACT-AI-THON '26, a 24-hour National Level Hackathon organized by the Department of Artificial Intelligence and Data Science in collaboration with the Data Analytics Club. Scheduled for 23rd & 24th February 2026, this exciting event brings together innovators and tech enthusiasts to solve real-world challenges across 3 tracks featuring 24 problem statements. With an impressive prize pool of ₹1,20,000, participants will compete in teams of three, and registration is completely free. The hackathon also offers exciting gifts, vouchers, and special coupons for participants. Sponsored by Wareef and CPLC Codework Pro Learning Centre, the event aims to foster innovation, collaboration, and impactful AI-driven solutions. Students passionate about Artificial Intelligence and Data Science are invited to take part, showcase their skills, network with peers, and be a part of a transformative technological experience. Register now and step into the future of AI innovation.

		The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized Query Quest under the banner of the Data Analytics Club on 2nd February 2026 at the Library AV Hall from 8:30 AM to 11:00 AM. The event featured an interactive workshop on DBMS and SQL followed by an exciting quiz competition with exclusive prizes, aimed at enhancing students' conceptual understanding and practical knowledge of database management systems.
3.	FDP/WORKSHOP/CONFERENCE/HACKATHON (ATTENDED /ORGANIZED)	Ancy SK Sithany, a III year student from the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, served as a resource person at the Two-Day Workshop on "Machine Learning Techniques in Satellite Image Processing for Engineering



Applications” organized by the Department of Civil Engineering, College of Engineering and Technology, at SRM Institute of Science and Technology, Kattankulathur, on February 13–14, 2026. She participated as a resource person along with Dr. C. Heltin Genitha, Professor and Head, Department of Information Technology, St. Joseph’s College of Engineering.



The Department of Artificial Intelligence and Data Science at St. Joseph’s College of Engineering proudly celebrates the achievement of its student team Dream Coders, who emerged as winners at the prestigious Tenkasi Hackathon organized by StartupTN in association with the Tenkasi District Industries Centre, securing the first prize along with a cash award of ₹10,000 for their innovative solution and outstanding performance; the winning team includes Sankari K, Kevin J C, and Kalpitha P from IV year, along with Sri Akshitha Devan and Priyadharshini R from II year of ADS, whose success reflects strong technical expertise, creativity, and teamwork, under the guidance of their faculty mentor Ms. V. Sathya, Assistant Professor, Department of ADS.

STUDENT ACHIEVEMENTS/COMPETITION ATTENDED BY STUDENTS

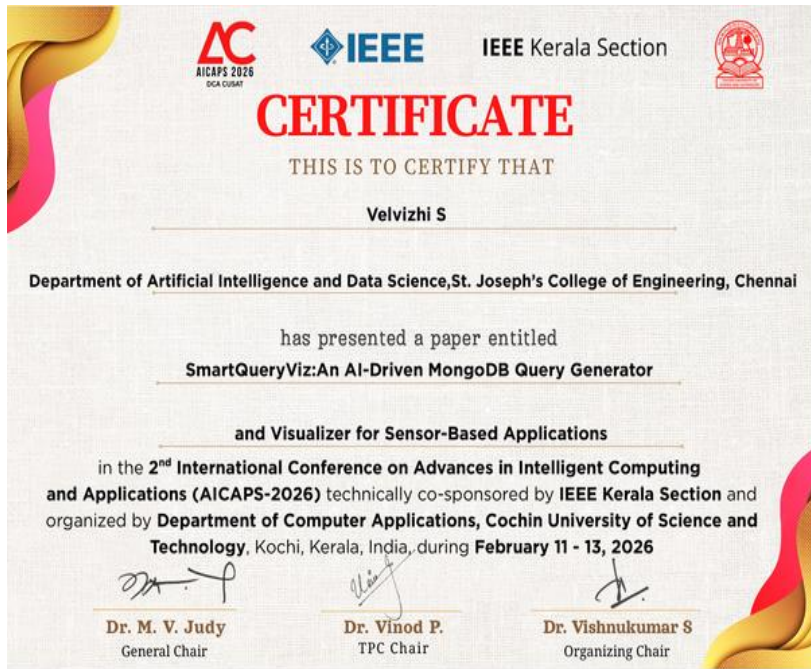


4.



Students M. Deepika and C. Giftlin along with faculty member Kumari Deepika of St. Joseph's College of Engineering were honored with the Best Paper Award at the ANRF Sponsored 2nd International Conference on Sustainable Materials and Advances in Regenerative Technologies (SMART 2.0) organized by the Department of Science at Sona College of Technology, Salem, on 29th and 30th January 2026. Their research paper titled "Detecting Query Intent Drift in Relational Databases Using Machine Learning" received high appreciation from the review committee for its innovative approach and practical relevance. The recognition highlights the department's commitment to quality research and academic excellence, bringing laurels to the institution.

Students Sathiyapriya S and Subhasri B along with staff member D. Deepa successfully presented the research paper titled "AI-Based Phishing Email and Link Detection Framework through Generative AI and Explainable ML" at the 4th International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT-2026), organized by Jawaharlal College of



Engineering and Technology, Ottapalam, Kerala, India, held from 4–6 February 2026.

Student Velvizhi S, from the Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering, Chennai, presented the paper titled "SmartQueryViz: An AI-Driven MongoDB Query Generator and Visualizer for Sensor-Based Applications" at the 2nd International Conference on Advances in Intelligent Computing and Applications (AICAPS-2026), technically co-sponsored by IEEE Kerala Section and organized by the Department of Computer Applications, Cochin University of Science and Technology, Kochi, Kerala, India, during February 11–13, 2026. The paper was authored by Sahana S and faculty member Sivaprabha T, whose research introduced an innovative AI-driven system.

Student Muhilan Meenakshi Sundaram P and Nithishwar A P, along with faculty member Mrs. Kavitha G were awarded a Certificate of Participation for presenting their paper titled "AI Powered Monitoring and Risk Prediction for Maternal Health to Ensure Fetal Well-Being" at the


 Office of the Controller General of Patents, Designs & Trade Marks
 Department for Promotion of Industry and Internal Trade
 Ministry of Commerce & Industry,
 Government of India
<http://ipindia.nic.in/index.htm>


 (http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202641013379
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/02/2026
APPLICANT NAME	1 . G ASHWIN PRABHU 2 . Thalitha Tanu Sree P M 3 . Kalpitha P 4 . Jayasri R 5 . Sri Arjun K 6 . Vignesh S
TITLE OF INVENTION	Intelligent Document Q&A System Using Retrieval-Augmented Generation
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ashwin.prabhu1990@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mechanicalmotivator@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/02/2026

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

International Conference on Computing, Communication, Control and Cyber-Physical Systems (ICCPS-2026), held on February 26–27, 2026, at the National Institute of Technology Puducherry, Karaikal, India, under the IEEE Madras Section.

G. Ashwin Prabhu, Thalitha Tanu Sree P M, Kalpitha P, Sri Arjun K, and Vignesh S along with faculty member Ms Jayasri R have successfully published a patent titled “Intelligent Document Q&A System Using Retrieval-Augmented Generation” under the Office of the Controller General of Patents, Designs & Trade Marks, functioning under the Ministry of Commerce & Industry, Government of India. The patent (Application No. 202641013379) was filed on 06/02/2026 and published on 20/02/2026 in the field of Computer Science.



Harrick Christo JP, Mohamed Abul Faizal T, Jess Annet A, and Catherine Christina secured First Place in the Paper Presentation competition held at Agni College of Technology. The team delivered an outstanding presentation that impressed the judges with their in-depth knowledge, clarity of explanation, and innovative ideas.



Raju V, Padma Priya R, and Nethra R earned Second Prize in the CTF Technical Event held as part of QuantiX-2K26 at Agni College of Technology. The team demonstrated strong technical expertise, strategic thinking, and collaborative skills throughout the competition.



Gokulakannan P secured Third Prize in the Pitch Perfect Event conducted during the Symposium at Chennai Institute of Technology. He demonstrated impressive presentation skills, innovative thinking, and confidence while pitching his ideas before the judges.

Gayathri R and Dhanushri Muthukumaran of II Year secured the First Prize in the event “Lab to Market Launch – TECHNOFEST 2026,” a National Level Technical Symposium organized by Anand Institute of Higher Technology on 12.02.2026.

		<i>Showcasing innovation, entrepreneurial insight, and strong presentation skills, they excelled among participants from various institutions. Their outstanding performance earned them a cash award of ₹1500 and brought great pride to the college.</i> <i>Team Dream Coders comprising Sankari K (IV Year), Sri Akshita Devan (II Year), and Priyadarshini R (II Year) achieved recognition in the Gen AI Category at Techdeviation 2.0. The team showcased innovative ideas and technical proficiency in the field of Generative Artificial Intelligence, demonstrating creativity and strong collaborative skills.</i>
5.	JOURNAL PUBLICATIONS(ONLY PUBLISHED) DETAILS	<i>Dr. M. P. Rajakumar, from the Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering, has published a</i>

Third Order Differential Subordination Associated with Exponential Function

By Lavanya, VASJ (Lavanya, V. Agnes Sagaya Judy) ; Jeyaraman, MP (Jeyaraman, M. P.)
Are you this author? ; Rajakumar, MP (Rajakumar, M. P.)

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

Source UKRAINIAN MATHEMATICAL JOURNAL
DOI: 10.1007/s11253-025-02529-6

Early Access DEC 2025

Indexed 2025-12-22

Document Type Article; Early Access

Abstract Using admissibility conditions, we investigate some third-order differential subordination results with a superordinate function $q(z) = ez$. As an application, we obtain sufficient conditions for certain special functions to become exponential convex and exponential starlike. The derived second-order differential implications significantly generalize numerous results obtained in [A. Naz, S. Nagpal, V. Ravichandran, *Mediterran. J. Math.*, 17, No. 204, 1-22 (2020)].

STUDY OF COMBUSTION AND PERFORMANCE IN A DIESEL ENGINE FUELED BY BIODIESEL-NANOPARTICLE BLENDS

By Nathamuni, M (Nathamuni, Mohanrajhu) ; Duraisamy, P (Duraisamy, Premkumar)
Are you this author? ; Palani, RM (Palani, Rajakumar Muthusamy) ; Ramamoorthy, PK (Ramamoorthy, Padmavathi Kuppusamy)

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

Source CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY
Volume: 32 Issue: 3
DOI: 10.2298/CICEQ241112024N

Published JUL-SEP 2026

Indexed 2026-01-12

Document Type Article

Abstract This study examines the combustion and performance of avocado waste peel biodiesel (AWPB) combined with graphene oxide nanoplates (GONPs) as a substitute fuel for diesel engines. It also aims to assess the impact of engine combustion and performance while considering the feasibility of employing waste materials in fuel generation. The test fuels diesel, AWPB, AWPB+GONPs 50 ppm, and AWPB+GONPs 100 ppm were evaluated. The

research article titled “Third Order Differential Subordination Associated with Exponential Function” in the prestigious *Ukrainian Mathematical Journal* (Early Access, December 2025).

Dr. M P Rajakumar , Department of Artificial Intelligence and Data Science, St. Joseph College of Engineering, has published a research article titled “Study of Combustion and Performance in a Diesel Engine Fueled by Biodiesel–Nanoparticle Blends” in the journal *Chemical Industry & Chemical Engineering Quarterly*, Volume 32, Issue 3, during July–September 2026. The article (DOI: 10.2298/CICEQ241112024N) presents an experimental investigation on the combustion characteristics and performance analysis of avocado waste peel biodiesel (AWPB) blended with graphene oxide nanoplates (GONPs) as an alternative fuel for diesel engines.

Natural Language Processing for Multilingual and Low-Resource Languages

Publisher: IEEE

Cite This PDF

J. Karthikeyan; Munawar Yusuf Sayed; Yashwant Warkar; S. Satya; Krishna Prasad R; M. Suseela Grace Padma

Department of AIDS, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India

All Authors

26 Full Text Views

Abstract Document Sections

I. INTRODUCTION
II. LITERATURE SURVEY
III. PROPOSED MODEL
IV. RESULTS AND DISCUSSION
V. CONCLUSION

Authors

Figures

References

Keywords

Abstract:

Multilingual and low-resource NLP is a challenging task as it suffers from the lack of labelled data, high annotation cost, and the paucity of language-specific resources. We present an integrated framework that uses pre-trained multilingual encoders, synthetic data augmentation, active learning, and cross-lingual transfer to enhance performance on foundational NLP tasks, including part-of-speech tagging, named entity recognition, and machine translation. We use XLM-Flores as a multilingual encoding layer and transfer learn per-task on four low resource languages: Amharic, Gujarati, Uyghur, and Yoruba. We experimented with data augmentation via back-translation and paraphrasing, which greatly improved training corpus, and active learning, which reduced manual annotation by up to 40%. Cross-lingual transfer from related languages also improved system performance for which over and above language-specific baselines, improved F1 scores in the range of 8-10% were recorded. Experiments on low-resource benchmarks corroborate the effectiveness of the framework, with BLEU score improvements in up to 10 points and stable convergence gains. The proposed approach provides a scalable and cost-effective mechanism to improve the performance of NLP for

More Like This

Automatic Annotation of Metadata in Power System Databases Based on Correlation Feature Selection and Natural Language Processing
2023 IEEE 8th International Conference on Smart Cloud (SmartCloud)
Published: 2023

Advancing Oda Natural Language Processing: A Study on HMM-Based POS Tagging
2025 International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU)
Published: 2025

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(12) PATENT APPLICATION PUBLICATION

(16) INDIA

(22) Date of filing of Application: 28/12/2025

(21) Application No. 202521132723 A

(43) Publication Date: 13/02/2026

(54) Title of the invention: BISMUTH-FUNCTIONALIZED 2D NANO-ELECTRONIC LAYERS FOR IMPROVED EV BATTERY STABILITY AND SAFETY

(51) International classification

B82Y30/00
B82Y40/00
H01M10/04
H01M10/054
H01M10/0562
H01M10/585
C30C23/00
H01M4/54

(31) Priority Document No

NA

(32) Priority Date

NA

(33) Name of priority country

NA

(40) International Application No

NA

Filing Date

01/01/1900

(47) International Publication No

NA

(51) Patent of Addition to Application Number

NA

Filing Date

NA

(62) Divisional to Application Number

NA

Filing Date

NA

(57) Abstract:

BISMUTH-FUNCTIONALIZED 2D NANO-ELECTRONIC LAYERS FOR IMPROVED EV BATTERY STABILITY AND SAFETY The present invention provides a development of the electric vehicle batteries encounter severe issues of stability and safety owing to dendrite formation, thermal runaway, and decomposition of the electrolyte materials with high rates of cycling. This paper proposes bismuth-functionalized two-dimensional nano-electronic layers (Bi-2D NLEs), which include bismuth oxide nanosheets with hydroxyl of graphene and MXene materials, and act as a multi-functional layer for Li metal electrodes. The addition of bismuth improves ionic conductivity (in 10^{-2} to 10^{-3} S/cm) and helps form a self-healing solid electrolyte interface (SEI), which prevents more than 95% of dendrite formation after 1000 cycles of SE rates. In-situ EIS results, along with DFT calculations, indicate that bismuth helps reduce Li^+ solvation energy and nucleation overpotential by 0.3 V. Thermal tests show that there is a 40% decrease in heating up, thus preventing runaway phenomena up to 200 °C. Full cells with NaCl electrodes reach an 85% capacity retention ratio after 800 cycles, which is a 2.5x improvement over the control cells. Bi-2D NLEs provide a scalable means for the production of the next generation of EV batteries. FIG. 1

No. of Pages: 13 No. of Claims: 2

Processing (NLP), particularly the lack of labelled data and high annotation costs.

Dr. R. Baghialaxmi has successfully published a patent titled “Bismuth-Functionalized 2D Nano-Electronic Layers for Improved EV Battery Stability and Safety”, as featured in the Patent Office Journal No. 07/2026 dated 13/02/2026. The invention addresses critical challenges in electric vehicle battery performance, particularly dendrite formation, thermal runaway, and electrolyte decomposition.

Ms. Kavitha G has published a patent titled “IoT-Enabled Machine Learning Framework for Real-Time Cardiac Anomaly Prediction and Emergency Alerting”, as featured in the Patent Office Journal No. 08/2026 dated 20/02/2026. The invention presents an advanced integrated

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application :02/02/2026 (54) Title of the invention : IOT-ENABLED MACHINE LEARNING FRAMEWORK FOR REAL-TIME CARDIAC ANOMALY PREDICTION AND EMERGENCY ALERTING		(21) Application No.202641010921 A (43) Publication Date : 20/02/2026 (71)Name of Applicant : 1JDr B Sugantha Address of Applicant :Professor, Department of Electronics and Communication Engineering, School of Engineering and Technology, Dharmalakshmi Sateevanan University, Samayapuram, Trachinapalli, 621 112, Tamil Nadu, India Trichy Tamil Nadu India 2JDr.Aad Sirajul Haque 3JN.Samundeshwari 4JN.Lavitha G 5JM.Mohammed Abdulhakkar Siddique 6JA.Samalya 7JA.Ramyaari 8JDr. Sri Lakshmi K 9JPrajna K B 10JP.V.Hemavathi 11JRamireddy Siva 12JDr Aravindh Vijay Jesuraj S (72)Name of Invention : 1JDr B Sugantha 2JDr.Aad Sirajul Haque 3JN.Samundeshwari 4JN.Lavitha G 5JM.Mohammed Abdulhakkar Siddique 6JA.Samalya 7JA.Ramyaari 8JDr. Sri Lakshmi K 9JPrajna K B 10JP.V.Hemavathi 11JRamireddy Siva 12JDr Aravindh Vijay Jesuraj S	
(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No (87) International Publication No (61) Patent of Addition to Application Number (62) Divisional to Application Number		A61B 500, G16H 40/07 A61B S0005 A61B S0052 A61B S001 NA NA NA 01/01/1900 NA NA NA NA (57) Abstract IoT-Enabled Machine Learning Framework for Real-Time Cardiac Anomaly Prediction and Emergency Alerting is the proposed invention. The proposed invention integrates wearable biomedical sensors with IoT connectivity to continuously collect cardiac physiological signals such as ECG and heart rate data. Advanced machine learning and deep learning algorithms analyze the real-time data to detect abnormal cardiac patterns with high accuracy and minimal latency using edge and cloud computing. Upon identification of a critical cardiac anomaly, the system automatically generates emergency alerts and transmits them to patients, caregivers, and medical professionals along with essential health information. The Framework also incorporates secure data transmission and privacy-preserving mechanisms, enabling reliable, scalable, and intelligent remote cardiac monitoring for proactive healthcare and timely emergency response. No. of Pages : 15 No. of Claims : 5	
The Patent Office Journal No. 08/2026 Dated 20/02/2026		21981	

healthcare monitoring system that leverages Internet of Things (IoT) devices

Dr. R. Ramya published a patent titled “Chemical Sensor-Integrated IoT Network for AI-Optimized Electricity Usage in Residential Areas”, officially released in the Indian Patent Office Journal No. 31/2025 on 01/08/2025, with Application No. 202541070964 A, filed on 25/07/2025. This invention presents an advanced framework that integrates chemical sensors with Internet of Things (IoT)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sl. No .	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1.	Dr. Adlin Sheeba Published Paper	Title of the Paper – An AI-Driven VR Learning Framework Using RL-Optimized Transformer Models for Personalized English Proficiency Assessment. Abstract: Effective English language learning demands adaptive, interactive, and flexible instructional support, which traditional e-learning systems and existing AI tutors struggle to provide due to limited immersion, static feedback mechanisms, isolated task structures, and the absence of robust reward-driven learning strategies. Although prior studies on VR-based learning environments and Natural Language Processing (NLP) have reported enhanced learner motivation and engagement, most existing solutions suffer from fixed task sequencing, limited real-time linguistic intelligence, and inadequate grammar and pronunciation correction capabilities. To address these challenges, this study proposes a Virtual Reality–based architecture named the Self-Evolving Neural Intelligence Tutor (SENIT), driven by Curriculum Reinforcement Learning and Hierarchical Adaptive Weighting. SENIT integrates a fine-tuned T5 transformer for grammar refinement and prosody-aware feedback, while a reinforcement learning agent dynamically adjusts task difficulty and lesson progression based on learner performance. Developed using Python and TensorFlow and deployed within a Unity3D VR environment, SENIT enables realistic conversational simulations and multimodal learner assessment. Experimental evaluation on a dedicated VR English Learning Dataset demonstrates grammar and pronunciation accuracy improvements of 90% and 81%, respectively, outperforming existing models by approximately 12 percentage points. Additionally, learners achieved notable fluency gains and high engagement scores, highlighting SENIT’s effectiveness in delivering personalized, immersive language learning experiences.

2.	Dr. Adlin Sheeba International Conference 	Title of the Paper : Adaptive CognitionNET for predicting student Performance in E-Learning Systems
3.	Ms.Priyadharshini S P International Conference	



Title of the Paper : SmartCross: IoT-based Safe Cross Railway

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	STUDENT ACHIEVEMENTS  Congratulations Name of the Students: Sherwin Domnic Jose, Pragadees U Year and Batch : III year (2023-2027) Prinze Won : 1st Prize Cash Amount : Rs. 7000 Event Name : TECHNOBITE: PAPER PRESENTATION Venue : Rajalakshmi Engineering College Date : 13.02.2026 Mentor : Ms. Justin Packia Jacob St. JOSEPH'S GROUP OF INSTITUTIONS OMR, CHENNAI - 119 The Choice of Disciplined Toppers	Our Third-year students (Batch 2023-2027), Sherwin Domnic Jose and Pragadees U have won 1st position (Rs. 7000 Cash Prize) in TechnoBite Paper Presentation held at Rajalakshmi Engineering College, Chennai on 13.02.2026.
	<i>A copy of proof</i>	Our Third-year students (Batch 2023-2027), Atchaya N and Jayanthika V have won 5th position (Rs. 1500 Cash Prize) in TechnoBite Paper Presentation held at Rajalakshmi Engineering College, Chennai on 13.02.2026.



A copy of proof

Our third-year student (Batch 2023-2027), Jafferin D.R has secured 2nd position (State Level) in Chennai Regional Round of the Maria Philip Future Leader Debate at XIME, Chennai, with the cash prize of Rs. 10,000.



A copy of proof

Our third-year students (Batch 2023-2027), Hariharan D. K and Sreevarshan S, Nanditha R and Nithyasri G have secured 1st and 3rd position in Eco-Social Club activity conducted by our College

Our second year students (Batch 2024-2028), Tanushri T, Harshita R, Priyadharshika M, Sabrin H and Smera Athiban have won 1st position (Rs. 5000 Cash Prize) in IDEA2MARKET: CONCEPT TO CUSTOMER, Hackathon held at SSN College of Engineering, Chennai.



A copy of proof

Our second-year students, Keerthi Shri R, Sindhu Gowri, Monika and Anushya Mary (Batch 2024-2028), have secured 1st position in Gene Auction, Technical Event conducted by Rajalakshmi Engineering College, Chennai with a cash prize of Rs. 10,000.



A copy of proof

Our second-year students, Varnika S, Rashmika Ragunath Nair and Madhumitha K (Batch 2024-2028) have secured 1st positions in Nutrizone-26, National Conference at SRM Institute of Science and Technology, Chennai.

Our second-year students, Nithyashree G and Mercy Shalin A (Batch 2024-2028) have secured 3rd position in MED-XPLORE-26, National Level Technical Symposium at Agni College of Technology, Chennai



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Congratulations



Name of the Students: Keerthi Shri R, Sindhu Gowri, Monika, Anushya Mary

Year and Batch : II year (2024-2028)

Prinze Won : **1st Prize**

Cash Amount : **Rs. 10,000**

Event Name : **Gene Auction (Technical Event)**

Venue : **Rajalakshmi Engineering College, Chennai**

Date : **13.02.2026**

Mentor : **Dr. L. F. A. Anand Raj & Dr. B. Sangeetha**



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The Choice of
Disciplined Toppers

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DEPARTMENT OF BIOTECHNOLOGY



Congratulations




Name of the Students: **Rashmika R**
Madhumitha K
Varnika S

Year and Batch : II year (2024-2028)

Prinze Won: **1st Prize**

Event Name : **New Product Development category at the National Conference**
Nutrizione'26 Nutritional, Functional, Packaging and Safety Challenges of Foods,"

Venue : **SRM Institute of Science and Technology**

Date : **11.02.2026**

Mentor : **Ms. A. Anli Dino**



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The Choice of
Disciplined Toppers

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A copy of proof

2. NGO VISIT

Our Second year recently embarked on a visit to Saastha old-age home, Madambakkam on 9th February 2026



A copy of proof

3. GUEST LECTURE

The Department of Biotechnology hosted a guest lecture on “Smart Bio-fabrication: Merging Lab-on-chip system with 3D Bio-print Constructs” by Dr. S. Yamini Sudha Lakshmi, Assistant Professor at University of Madras, Chennai.

	 <i>A copy of proof</i>	
4.	CULTURAL WINNERS  <i>A copy of proof</i>	The students from Department of Biotechnology have actively participated in the cultural event and secured the following prizes: III year (Batch 2023-2027) Sowmiya M – First prize in Creative Writing Tamil Nandita R - Third prize in Creative Writing Tamil Nandita R and Harshitha P - Third prize in Rangoli Hariharan D K and Santhosh M D - Third prize in Quiz
5.	COLLEGE DAY WINNERS	Our 2nd and 3rd year students have participated in the college day and secured a cash prize of Rs.3000



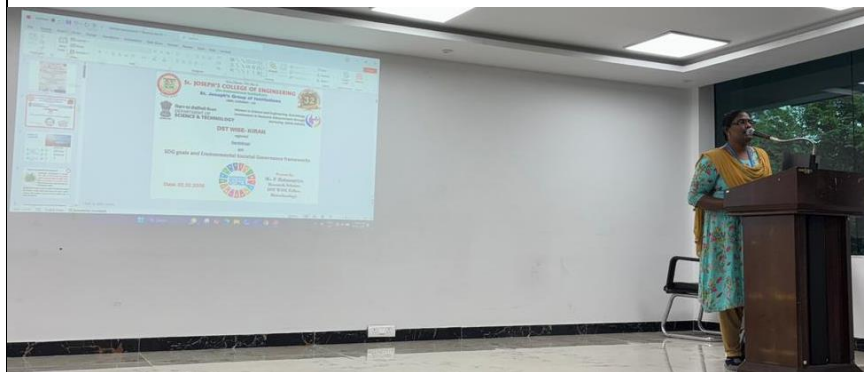
A copy of proof

	<i>A copy of proof</i>	
6.	INTRAMURAL SPORTS WINNERS  <i>A copy of proof</i>	Our 2nd year students (Batch 2024-2028) have participated in the intramural sports and won 1st place in throw ball (girls) and football (boys)



A copy of proof

SEMINAR FOR STUDENTS



A copy of proof

Our research scholar Ms. Mohana Priya P has presented a seminar on SDG Goals and Environmental and Societal Frameworks on 2nd February supported by DST WISE KIRAN

8.	WORKSHOP ATTENDED BY FACULTY  <i>A copy of proof</i>	Dr. L. F. A. Anand Raj from the Department of Biotechnology has attended three days workshop on Research Methodology and data-analysis - A smart Learning organized by Star International Foundation for Research and Education from 05.02.2026 to 07.02.2026.
9.	PAPER PUBLICATIONS/ BOOK CHAPTERS	Dr. G. Baskar has published a research paper entitled "Assessment of oxalic acid treated residual <i>Cladosporium pseudochalastosporoides</i> biomass for vanadium, cadmium and arsenic removal" in the Journal of Environmental Management.

	 Journal of Environmental Management Volume 405, 1 March 2026, 128947 Research article Assessment of oxalic acid treated residual <i>Cladosporium pseudochalastoporoides</i> biomass for vanadium, cadmium, and arsenic removal: A kinetic, equilibrium, and thermodynamic study Vanshika Nimkar ^{a,1}, Aril Kumar Patel ^{a,b,c,1}, Baskar Gurumathan ^d, Cheng-Di Dong ^{a,*} , Ravika Rani Singhania ^{a,b}  Show more   Add to Mendeley  Share  Cite https://doi.org/10.1016/j.jenvman.2026.128947  Get rights and content  Highlights - Residual biomass of novel fungus <i>Cladosporium pseudochalastoporoides</i> valorized. - Oxalic acid modification enhanced biosorption of V^{5+}, Cd^{2+}, and As^{5+} from aqueous environment. - Freundlich isotherm and pseudo-second order kinetics indicated chemisorption. - Study demonstrates sustainable reuse of an enzyme producing fungal strain for metal removal. A copy of proof	
10.	DBT FUNDING FOR INTERNATIONAL CONFERENCE Dr. G. Baskar and Dr. B. Sangeetha from the Department of Biotechnology have received a sanctioned amount of ₹1,50,000 from the Department of Biotechnology (DBT), for organizing the 3rd International Conference on Frontiers in Industrial Biotechnology	

	 <i>A copy of proof</i>	
11.	DESIGN PATENT PUBLICATION	Ms. Anli Dino A and her students have published a patent grant entitled "AI-Based Construction Failure Detection Device"

Certificate of Registration for a UK Design

Design number: 6493838
Grant date: 13 January 2026
Registration date: 19 December 2025

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Anil Dattatray Choudhari, Kanimozhi Suguna Subramanian, Dr. Panthadeep

Bhattacharjee, Pragati Bhausaheb Chandane, Krishna Pandey, Dr. Aayush

Shrivastava, Anil Dino Alphonse, Dr Rakesh Gupta, Dr. Abhishek Das, Dr.

Sarankumar Ramasamy

in respect of the application of such design to:

AI-Based Construction Failure Detection Device

International Design Classification:
Version: 15-2025
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING,
SECURITY OR TESTING



Adam Williams

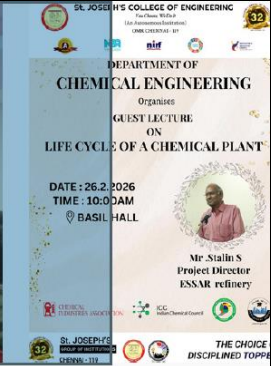
Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

A copy of proof

DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
12.	INDUSTRIAL VISIT	Industrial visits for II and III Year students in February 2026 to enhance practical exposure and strengthen industry–academia interaction. On 13.02.2026, the II Year B.Tech Chemical Engineering students visited Rajshree Sugars & Chemicals Limited, Genguvarpatti, Tamil Nadu. Earlier, on 06.02.2026, the III Year Chemical Engineering students also undertook an industrial visit as part of experiential learning initiatives of the department. The visit provided insights into industrial process operations, safety practices, process optimization techniques, and real-time troubleshooting methods. Students interacted with plant engineers and gained valuable exposure to practical applications of core chemical engineering principles.  

13.	NGO VISIT	On 09 February 2026, the II Year students of the Department of Chemical Engineering actively participated in a social outreach programme through a visit to Sakthi Aadharavu Illam, an NGO dedicated to supporting and caring for the underprivileged. The visit was organized by the college management with the objective of nurturing social responsibility and humanitarian values among students. 
14.	GUEST LECTURE	Mr. Stalin S, Project Director at ESSAR Refinery. Addressing a packed audience at Basil Hall, Mr. Stalin provided a comprehensive deep dive into the "Life Cycle of a Chemical Plant," bridging the gap between academic theory and the complex realities of large-scale industrial operations. The event was supported by prominent industry bodies, including the Chemical Industries Association and the Indian Chemical Council.

		 
15.	PLACEMENT	Mr. Thareneshwar R and Mr. Santhosh K J have been successfully placed as Graduate Engineer Trainees (GET) at Reliance Industries Limited, with an impressive CTC of 8 LPA. Their achievement stands as a testimony to their technical competence, problem-solving skills, and the rigorous academic and placement training framework of the department. Mr. Hari Balaji has achieved a remarkable milestone as his Research Internship in Electrochemistry at Meine Electric has been officially converted into a full-time placement offer, with a package of 9 Lakhs. This conversion from internship to placement reflects his exceptional performance, research capability, and professional commitment during his internship tenure.

		 
16.	STUDENT ACHIEVEMENT	Sanjay S and Santhosh K J secured First Prize at CHEMCON 2025, the 78th Annual Session of the Indian Institute of Chemical Engineers (IICChE). The prestigious event was organized by the IICChE Annamalai Regional Centre at Annamalai University, Tamil Nadu, from December 27–30, 2025, under the theme “AI-Driven Chemical Engineering Processes – Transformation and Sustainability.” Their award-winning paper titled “Adsorptive Removal of Emerging Contaminants Including Fluoroquinolone Antibiotics from Aqueous Environments Using Green Nanocomposites” was highly appreciated for its innovation, environmental relevance, and technical excellence. Our students achieved remarkable success at various prestigious technical events, bringing pride to the institution. At Titanium '26, hosted by Rajalakshmi Engineering College on 13.01.2026, multiple teams from the Department of Chemical Engineering secured top positions. In the Paper Column (Technical Paper Presentation) event, Team Polymerix comprising S. Akshaya, R. Abishek, and Mohammad Aasif G secured First Place, winning a cash prize of ₹10,000 for their outstanding research and presentation skills. In Chemstruct (Working Model Competition), Team ATOMIC WIZARD with Prakadesh S and Susindhiran S achieved Second Place, earning ₹6,000 for their innovative model and technical expertise. In the Causeberg Technical Case Puzzle, Shalesh Priyan K S and Prakadesh S secured Second Place, winning ₹6,000, demonstrating strong analytical and problem-solving abilities.



The II Year students of the Department of Chemical Engineering actively participated in the **Cultural Competitions held on 27th February 2026** and the Intramural Sports Meet conducted on 19th February 2026. The students showcased exceptional enthusiasm in events such as **Rangoli, Drawing (Pencil), Creative Writing, Oratorical, Quiz, Light Music, and team events like Pattukku Pattu and Dumb C**. Notably, **Dakshin Kiran K** secured the **I Prize in Oratorical (Tamil)**, bringing pride to the department. Students also earned prizes in **Rangoli and Drawing competitions**, reflecting their artistic creativity and communication excellence. In sports, II Year students contributed significantly to team victories in Football and Throw Ball (in combined categories), and secured individual

recognition in **Table Tennis and Badminton**. Their active involvement demonstrated strong team spirit, leadership qualities, and competitive excellence.

Agni Fest 2026, hosted by Agni College of Technology, leading the charge in core technical excellence, **Pranav M** secured the **First Prize in the Paper Presentation event**, while the duo of **Tholkappian N** and **Pranav M**, competing as **Team Blaze**, clinched **First Prize in Chem Connectz**. Furthering this success, the trio of **Senthamizh Selvi P**, **Priyadharshini A**, and **Samyuktha C** demonstrated exceptional technical skill to win First Prize in the "Fix the Flow" event. In the realm of competitive quizzes and analytical challenges, the department's students maintained a strong presence on the podium. In the **ChemGenius Quiz**, the team comprising **Abarna P**, **Lokeshwari S**, and **Senthamizh Selvi P** secured the **Second Prize**, while **Sakthi Pradeep G** and **Abhijit Kanna A M** (Team Fluid Guys) earned the **Third Prize**. Additionally, during the Mechrazz 2k26 technical quiz, **Abarna P**, **Vaishali R**, **Yuva Sree V**, and **Logamaya S T** showcased their cross-disciplinary knowledge by securing Second/Third place finishes. Another successful run in the Chem Connectz event saw **Logamaya S T**, **Vaishali R**, and **Yuvashree V** taking home the Second Prize.



The III Year students marked their presence in the Cultural Competitions (2025–26) with outstanding performances. **Rishon Jos Anton S** secured prizes in multiple events including **Composing (Lyrics)** and **Creative Writing (English)**, showcasing

literary and artistic talent. The students also participated in Oratorical, Quiz, and various creative competitions, reflecting their well-rounded development.



Sivadurga M. and Roshini Priya, both II-Year Chemical Engineering students from St. Joseph's College of Engineering, have been honored with the Special Mention Prize at the prestigious **IMPACTX 3.0 hackathon**. Competing under the team name Hack Master, the duo distinguished themselves during the intensive 24-hour competition held on February 5th and 6th, 2026.



Akshaya S., a third-year Chemical Engineering student, was among the select participants recognized for her engagement in the high-level technical session hosted by The Institution of Engineers (India), Kanchepuram Local Centre (KLC). Final-year Chemical Engineering students **Kavin Raja Chakravarthy** and **Kuperan**, under the expert mentorship of Assistant Professor **Ms. Lavanya**, secured the **Best Paper Award at the 9th International Conference** on Innovative Computing and Communication (ICICC-2026) for their pioneering research on "**Prediction of Bio-Oil Yield in Pyrolysis of Biomass Using Machine Learning Algorithms.**"

		 The image shows a 'Best Paper Certificate' from the 'INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATION (ICICC-2026)'. The certificate is framed in blue and gold. It lists the names of the authors: Pravin Adhesh Dwaramwar, Minal Tukaram Pawar, A. Shaji George, Lavanya B. Kavimura, a chakravarthy P. and Kuperan G. The paper title is 'Machine Learning-Based Predictive Modeling and Visualization for Early Breast Cancer Diagnosis Using Open-Source Clinical Data'. The certificate is dated 07th February 2026. It is signed by Prof. Poonam Verma (Principal, SSCBS, University of Delhi, New Delhi, India), Prof. Prabhakar Kumar (General Chair, National Institute of Technology, Patna, India), and Prof. A.K. Singh (Technical Program Chair, National Institute of Technology, Kurukshetra, Haryana, India). Logos of ICICC, various universities, and Springer are visible at the top.
17.	ALUMNI MEET	The Silver Jubilee Celebration of the 1997–2001 batch was grandly organized on 27th February at St. Joseph's College of Engineering, commemorating 25 glorious years of friendship, achievements, and cherished memories. The event began with a heartfelt welcome by the college management and faculty members, who expressed immense pride in the accomplishments of the alumni. The reunion created a vibrant and emotional atmosphere as classmates met each other after many years, reliving their unforgettable college days.

		
18.	STUDENT SPORT	Vijay Sabareswar K.M., secured a podium finish at the Open State Level Interschool and Collegiate Swimming Competition. The event, which drew top talent from across the state, was held at the SDAT Swimming Pool in Shenoy Nagar on January 31, 2026. Competing in the highly demanding 100M Individual Medley (IM), Sabareswar demonstrated exceptional versatility across all four competitive strokes—butterfly, backstroke, breaststroke, and freestyle. His disciplined performance earned him the second-place silver medal, distinguishing him as one of the premier collegiate swimmers in the region.

		
19.	STAFF ACTIVITY	Dr. N. Venkatesh, Professor and Head of the Department, has successfully completed the prestigious Faculty Development Program (FDP) on Stress Management and Productivity Enhancement conducted by the AICTE Training and Learning (ATAL) Academy. The program was organized at the School of Technology from 09.02.2026 to 14.02.2026 

Dr. N. Magesh, Assistant Professor, served as a **Resource Person** at the All India Seminar on “**Nanomaterial from Research to Industry**” organized by The **Institution of Engineers (India)**, Tamilnadu State Centre, held at Sathyabama Institute of Science and Technology on 27–28 February 2026.



Dr. S. Vinod Kumar, Associate Professor, and **Dr. N. Magesh, Assistant Professor**, participated two-day workshop on "**Integrated Skill Development in Bioinformatics for Biotechnological Applications**," specifically focusing on Probiotic Product Development: Formulation, Quality Evaluation, and Stability Studies, held on February 9th and 10th, 2026. Organized by the **Centre for Waste Management and the Centre of Excellence for Energy Research**.

		 SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY DEEMED TO BE UNIVERSITY AUTONOMOUS AND AWARE WITH AN ISO CERTIFICATE - 1 (ACCREDITED BY ASI) CENTRE FOR WASTE MANAGEMENT CENTRE OF EXCELLENCE FOR ENERGY RESEARCH CERTIFICATE OF PARTICIPATION PROUDLY PRESENTED TO To <u>Mr. Madhan N. Madhan Assistant Professor</u> of <u>Department of Chemical Engineering</u> <u>St. Joseph's College of Engineering, Chennai</u> For participating in the "Design and Skill Enhancement in Waste-to-Energy for Waste-to-Energy of Application" in Process Product Development, Formulation, Quality Evaluation and Safety Studies, organized by Centre for Waste Management, Sathyabama Institute of Science and Technology, Chennai on <u>9/8/2024 to 10/8/2024</u> <u>Dr. R. S. Sathya</u> <u>Dr. R. Sathya</u> <u>Dr. R. Sathya</u>
		 SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY DEEMED TO BE UNIVERSITY AUTONOMOUS AND AWARE WITH AN ISO CERTIFICATE - 1 (ACCREDITED BY ASI) CENTRE FOR WASTE MANAGEMENT CENTRE OF EXCELLENCE FOR ENERGY RESEARCH CERTIFICATE OF PARTICIPATION PROUDLY PRESENTED TO To <u>Dr. Sindhu Kumar Assistant Professor</u> of <u>Department of Chemical Engineering</u> <u>St. Joseph's College of Engineering</u> For participating in the "Design and Skill Enhancement in Waste-to-Energy for Waste-to-Energy of Application" in Process Product Development, Formulation, Quality Evaluation and Safety Studies, organized by Centre for Waste Management, Sathyabama Institute of Science and Technology, Chennai on <u>9/8/2024 to 10/8/2024</u> <u>Dr. R. S. Sathya</u> <u>Dr. R. Sathya</u> <u>Dr. R. Sathya</u>

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	CSI-GUESTLECTURE	Date : 5.2.2026 Venue : Conference Hall Nature of Event : GUEST LECTURE Participants : II & III Year students Objective : • To bridge the gap between classroom learning and real-world industry practices through alumni experience sharing. • To guide students on career pathways, job roles, required skills, and higher studies opportunities. • To motivate and prepare students for employability through insights on trends, tools, internships, and interviews. • Outcome : • Improved student awareness of current industry practices, tools, and expectations related to the topic. • Clear career direction gained by students on job roles, skills to develop, certifications/higher studies, and placement preparation. • Enhanced motivation and engagement, with better readiness for internships, interviews, and professional communication.



2 Guest Lecture



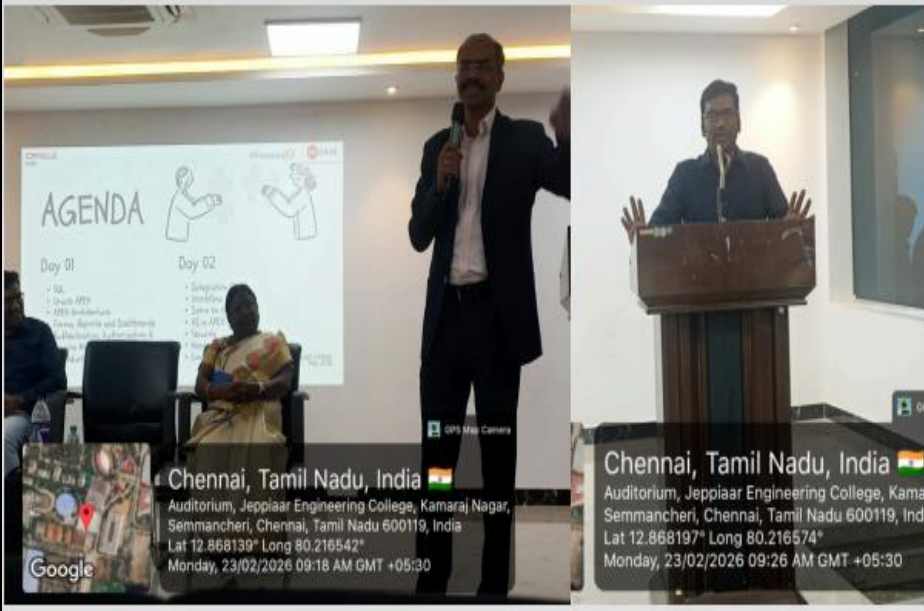
Date : 17 .2.2026
Venue : Conference Hall
Nature of Event : Guest Lecture
Participants : II & III Year students

Objective :

- To expose students to current industry trends, tools, and real-time practices through expert sessions.
- To bridge the gap between curriculum and industry expectations by mapping required skills and job roles.
- To enhance employability by providing guidance on internships, projects, certifications, and interview readiness.

Outcome :

- **Better understanding of industry expectations** (latest trends, tools, and workplace practices) relevant to the subject.
- **Improved skill readiness** through clarity on required competencies, job roles, and project/internship directions.
- **Enhanced employability preparation** with actionable inputs for certifications, resume building, and interview preparation.

3	workshop	
		Date : 19.2.2026 & 20.2.2026 Venue : Conference Hall Nature of Event : Workshop Participants : II & III Year students Objective : • To move beyond theory by providing hands-on practice and the application of knowledge in a real-world context. • To master a specific tool, technique, or "soft skill" (like leadership or coding) that isn't deeply covered in a standard curriculum. • To build professional networks and teamwork skills by solving challenges alongside peers and industry experts. Outcome : • Students leave knowing how to actually perform a task, not just the theory behind it. They gain the confidence to use a tool or technique on their own. • Students finish with a result—like a finished drawing, a working piece of code, or a solid plan—that they can show off or put in a portfolio. • Students walk away with new friends or mentors who share their interests, making them feel like part of a professional community.

DEPARTMENT OF MECHANICAL ENGINEERING.

Sl No	Name of the Activity	Remarks
1	➤ Dr. G. M. Lionus Leo, Associate Professor in the Department of Mechanical Engineering, has published a research article titled “Advanced Phase Change Material–Thermal Energy Storage for Low Carbon Heat: Materials, Reliability, and AI-Driven System Integration for Industry, Buildings, and Data Centers” in the journal Applied Energy (Volume 409, Impact Factor: 11). Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published an article titled "A Study on the Effects of Adding Cerium Oxide Nanoparticles to CI Engines Powered by Prosopis Juliflora Biodiesel-Diesel Blends." in Scopus Indexed Q4 Journal "International Journal of Vehicle Structures & Systems (IJVSS)," on 6 February 2026. th Mr. T. Balasubramanian, Assistant Professor from the Department of Mechanical Engineering Published a Patent Title “ An Intelligent Regenerative Braking Energy Optimization System and Method for Electric Vehicles” Application no: 202341005465A. Mr. M. Siva, Assistant Professor from the Department of Mechanical Engineering Published a Patent Title “ High- Performance Composite Structural Beam Incorporating Bio-Resin-Based Shear Interface Layers” Application no: 202641002918A. ➤ Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has published a Scopus Indexed Book Chapter entitled "Bridging Health Equity in Times of Crisis: Ensuring Inclusive Care During Emergencies and Disasters", IGI Global Scientific Publishing on 12 February 2026. Mr. G. Ashwin Prabhu from the Department of Mechanical Engineering attended the Six-Day Virtual Faculty Development Programme (FDP) on “Green Energy Technologies for Sustainable Development (GETSD’26)” organized by the Department of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, from 09.02.2026 to 14.02.2026. Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published an article titled "Experimental Study on Drilling Performance of Bio-Waste-Based Corn Husk Fiber Reinforced Epoxy Composites for Green Applications", in "Journal of Manufacturing and Materials Processing" a Scopus & ESCI Indexed, Q1 Journal with an impact factor of 3.3 on 21th February 2026 ➤ Dr. G. M. Lionus Leo, Associate Professor in the Department of Mechanical Engineering, has published a research article titled “Physics-encoded machine learning for performance and emission prediction of nickel ferrite nanocatalyst and hydrogen-enriched biodiesel in diesel engines” in the RSC Advances (Volume 16, Impact Factor: 4.6). Mr. G. Ashwin Prabhu, Assistant Professor from the Department of	

	Mechanical Engineering has published a Scopus Indexed Book Chapter entitled "AI-Enhanced Predictive Analytics and Reliability Management for Wind Turbine Maintenance", IGI Global Scientific Publishing on 28th February 2026. Mr. T. Balasubramanian Assistant Professor & Dr. N. Arunkumar, Professor, from the Department of Mechanical Engineering has presented a paper titled “ Surface Roughness Prediction in Drilling Inconel Grade-2 using Textured Tools and Soft cvomputing Technique” in 2 International Conference on Processing and performance of MAterials ICPPM-26 organized by Mechanical Engineering, SSN College of Engineering chennai, during 19 & 20 February, 2026 th th Mr. N. Sathishkumar, Assistant Professor, Department of Mechanical Engineering, acted as a reviewer for the manuscript titled “Novel Nonlinear Control Algorithms for Hexacopters to Overcome Contro
2	MECHOVATE 1.0 ➤ On behalf of Department of Mechanical Engineering, we organized Mechovate 1.0 a 24 hours Hackathon on 26/02/2025 to 27/02/2025. The session was inaugurated and timer for hackathon was pressed by Mr. PG. Ramanan, Director, CADDAM technologies. Total of 62 teams from 24 various colleges participated in the hackathon in software and Hardware domain at various problem statement. Total of 11 juires Evaluated their projects and suggestion of imporvments and second evaluation was done on how much incorporation was carried out from juires suggestion was marked and prizes were given. The session valedictory was chaired by Mr. S.R. Ramakrishnan, Director, Thaaai Casting and also a proud alumnus of 2016-2020 Batch.
3	Employability Enhancement Program (EEP) ➤ The Department of Mechanical Engineering successfully organized an Employability Enhancement Course on SD0502 – Non Destructive Welding Inspection Techniques in association with Shri Sai NDT Services. The program was conducted from 2nd February 2026 to 6th February 2026, with the objective of enhancing the practical skills and industry readiness of



students. A total of 61 third-year Mechanical Engineering students actively participated and benefited from this course. The training provided valuable exposure to modern non destructive testing methods and their applications in welding inspection, thereby strengthening the technical competence and employability of the participants.

5 Alumni Lecture

- On 06/02/2026, Department of Mechanical Engineering organized a Alumni guest lecture. Mr. Ashwin Santhanam (2006-2010), Senior Group Manager, Metro Global Solution Center & Mr. Adhityan PT (2006-2010), Project Manager, Enmas India Pvt Ltd, Shared the stage and addressed the topic “Orientation on Project Management & Process Improvement “ to the all Clear



students of mechanical. The students had a clear insight of what process improvement is and the roll of porject manager and what are the prerequisite for being in the role.

Guest Lecture



- The Department of Mechanical Engineering at St. Joseph's College of Engineering, Chennai, organized a guest lecture titled "Opportunities in the Field of Non-Destructive Testing (NDT)" on February 4, 2026, from 10:00 am to 12:00 pm at Basil Hall, Placement Block. The session was delivered by Mr. R. Nirmal, Founder of NP Technical Services Private Limited, Chennai. The session provided students and professionals with insights into career prospects, industry applications, and emerging technologies in the field of NDT.



ABHS seminar

- The Department of Mechanical and Mechatronics Engineering, in association with the Advisory Bureau for Higher Studies, successfully organized a Faculty Collaborative Research & Student Seminar on "Hydrogen, Additive and Nuclear Technologies in Manufacturing Systems" on 02 February 2026 at the AV Hall, Library, St. Joseph's College of Engineering, Chennai. The seminar witnessed active participation from faculty members and students, providing valuable insights into emerging manufacturing technologies and their global relevance. The session emphasized the role of advanced technologies in sustainable manufacturing, research collaboration, and future

		career pathways. The event facilitated meaningful discussions on faculty collaborative research opportunities, global technology exposure, and international higher studies and career prospects. Students were motivated to pursue innovation-driven research and interdisciplinary learning. Overall, the seminar was highly informative and inspiring, contributing significantly to research awareness, academic growth, and global outlook among participants
		➤ On behalf of SAE Student Chapter Activity, the ACES HIGH AERO SQUAD TEAM comprising Final, Third and Second year Mechanical & Mechatronics students participated in the SAE Drone Design Challenge 2026 held at KCG College of Technology from 20th to 22nd February 2026, Organized by SAE INDIA, SOUTHERN SECTION. The team has won All India Rank 3 out of 85 Teams in Aerodynamic Analysis Category (CFD)



Drone Development Challenge 2026

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Events conducted:

The following events have been conducted during February 2026 at College Level

1. An Industry Conclave – EMERGENCE' 26	Report
a) Activity 1	
	EMERGENCE'26 began with inspiring sessions from industry leaders across IT, hardware, and technology services. Speakers from Fidelity, TCS, Motherson Technology, Kone Elevator, and HCL Tech shared insights on emerging trends and industry expectations. The sessions emphasized innovation, leadership, and real-world engineering applications. Students gained valuable knowledge on career growth, skill enhancement, and industry readiness. The day concluded with interactive discussions that motivated students toward disruptive technology domains.



St. JOSEPH'S COLLEGE OF ENGINEERING

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Department of Electronics and Communication Engineering

MOCK INTERVIEW

Get Interview-Ready with Our Alumni!



Ms. Angella C
Technology Assurance
Analyst
Deloitte USI



Mr. Franklin Johnson I
Assistant Manager
Howden, Chennai



Ms. Keerthana R M
Service operations
Specialist
Nokia Solutions and
Networks, Chennai



Ms. Harini S
Service operations Specialist
Nokia Solutions and
Networks, Chennai



Ms. Prithika Reshmi A
Packaged App Development
Analyst
Accenture



Ms. Lekhashri S
Technical Support
Engineer
Zoho



Mr. Gilbert Sam M A
Network Engineer
Lumen Technologies
Bangalore



Mr. Ebi Manuel S R
WLAN QA Engineer
Candela Technologies Chennai



Ms. Kavya C
Packaged App
Development Associate
Accenture, Chennai



Ms. Dorima Roshni R
Senior Software Engineer
HCLTech
Chennai



Ms. Akshaya M
Senior Software Engineer
HCLTech
Chennai



Mr. Suriya Prakash K
DV Engineer
Tessolve Semiconductor Pvt
Ltd
Chennai



Ms. Keerthi Varsha B
Core Handling Engineer (R&D)
Nokia Solutions and Networks
Chennai



Ms. Jawhar Sabitha Shirin M I
Embedded Software Engineer
Valeo India Private Limited,
Chennai



Ms. Vaidivu Nandhini M
System Engineer
Infosys
Chennai

DATE : 24.01.26

TIME: 9:30 AM - 2:50 PM

VENUE: HACKATHON AND TRAINING CENTRE

PARTICIPANTS: 2024 - 2028 BATCH STUDENTS



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The Choice of
Disciplined Toppers



Day 2 featured experts from Valeo, TVS, and Nokia who highlighted advancements in automotive electronics and communication technologies. The speakers discussed product development, R&D practices, and software project management in global industries. Students were exposed to real-time industrial challenges and innovation strategies. The sessions strengthened understanding of embedded systems,

telecom advancements, and industry collaboration. The day fostered technical curiosity and encouraged students to pursue research and internships.



Day 3 focused on leadership, technical excellence, and talent development in leading organizations like Einfocips and Hyundai Motor India. Industry professionals shared experiences on project execution, team management, and career progression. The sessions highlighted the importance of technical expertise combined with soft skills.



	
2. Alumni Activities	Report
a) Activity 1	



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

ALUMNI TALK

Institution to Industry: Mastering the Art of Interviews









KEY OUTCOMES

- STUDENTS RECEIVED TIPS ON CRACKING INTERVIEWS AND SECURING PLACEMENTS.
- STUDENTS GAINED INSIGHTS INTO THE REQUIREMENTS AND WORK CULTURE OF CORPORATES, HELPING THEM PREPARE FOR THE TRANSITION.
- THE ALUMNA HAD AN INTERACTIVE SESSION WITH STUDENTS, OFFERING PERSONALIZED GUIDANCE AND POTENTIAL MENTORSHIP OPPORTUNITIES.

ORGANIZED ON 13.02.2026 FOR 3RD YEAR STUDENTS



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The Choice of
Disciplined Toppers

An Alumni Talk titled “Institution to Industry: Mastering the Art of Interviews” was conducted on 13 February 2026 for Third-Year ECE students. The alumna shared practical tips on resume building, interview preparation, and corporate expectations. The interactive session motivated students and boosted their confidence for placements.



The session was delivered by a distinguished alumni who shared her inspiring journey from college to the corporate world. She provided practical guidance on resume preparation, technical and HR interview strategies, communication skills, and adapting to workplace culture. Students actively participated in the interactive

	discussion, asking questions and clarifying doubts about recruitment processes and industry expectations. The session was engaging, insightful, and motivating, helping students gain clarity and confidence as they prepare for their placement journey.
3. Professional Society Activities	Report
a) Activity 1	
	A Guest Lecture on “Smart Shortcut to Enter the IT Industry as a Fresher” was conducted on 06 February from 9:30 AM to 11:30 AM. The session was organized in association with IEEE Antennas and Propagation Society and IEEE Communications Society. Mr. Saravanan Rajarajan, Deputy Manager at Deloitte, Bangalore, shared practical tips on entering the IT industry as a fresher. He spoke about in-demand skills, resume building, interview preparation, and career planning, helping students understand what companies look for during placements. 



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

JUMPSTART

GUEST LECTURE

on

"SMART SHORTCUT TO ENTER THE IT INDUSTRY AS A FRESHER"

Mr. Saravanan Rajarajan
Deputy manager
Deloitte, Bangalore

FEBRUARY
6

9.30 AM - 11.30 AM

BASIL HALL-PLACEMENT



St. JOSEPH'S
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The Choice of
Disciplined Toppers

The session was interactive and engaging, with students actively asking questions about internships, placements, and career growth in multinational companies. The speaker encouraged students to strengthen their fundamentals, improve communication skills, and gain real-time project experience. He also highlighted the importance of continuous learning and smart preparation strategies. The lecture gave students clarity on industry expectations and motivated them to confidently plan their IT careers with focus and determination.

a) Activity 2



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



17 PARTNERSHIPS
FOR THE GOALS



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



ED
CELL
DEPARTMENT OF ECE



B



nirf

organized

Spark Talk - Entrepreneurship Unplugged

From Idea to Impact: Building, Scaling and Sustaining Ventures



Mr. P Deepak Kumar
 Founder
 The Base - DNA Community





Chennai, Tamil Nadu, India
 Auditorium, St. Joseph's College of Engineering, OMR, Chennai, Tamil Nadu - 600119, 9-4a



OUTCOMES

- Understood real-world startup journeys, common challenges, funding opportunities
- Gained clarity on entrepreneurial thinking, risk-taking and innovation
- To identify real-life problems and convert them into scalable business ideas



!! Year students!!



LIBRARY AV HALL



7-1-2026 Wednesday



10:00 AM - 11:30 AM

The session was interactive and engaging, with students actively asking questions about internships, placements, and career growth in multinational companies. The speaker encouraged students to strengthen their fundamentals, improve communication skills, and gain real-time project experience. He also highlighted the importance of continuous learning and smart preparation strategies. The lecture gave students clarity on industry expectations and motivated them to confidently plan their IT careers with focus and determination.



	The workshop was interactive and engaging, with students actively clarifying doubts about resume formats, technical profiles, and industry expectations. The speaker also shared insights from his professional journey and current hiring trends. Students gained useful guidance on presenting themselves confidently and creating resumes that stand out during campus recruitment drives.
4. ED CELL	Report
a) Activity 1	
	ED Cell and OPTICA of the Department of ECE organized a mentoring session titled “From Campus to Startup – Dream, Design, Disrupt: Student Spark to Startup Scale” for II Year ECE students. The session aimed to motivate students to transform innovative academic ideas into practical startup ventures through structured guidance and expert mentoring. Industry mentors from Nebula Startup School shared insights on ideation, identifying real-world problems, design thinking, and building scalable solutions with strong market relevance.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



organizes

Mentoring Session - From Campus to Startup

Dream, Design, Disrupt: Student Spark to Startup Scale



Mr. Premmanath
 Founder
 Nebula Startup School



Mr. S. Arunachalam
 Co-Founder & CMO
 Nebula Startup School



OUTCOMES

- Scaleup the student project ideas to commercial products
- Seed funding support from Govt. agencies & Angel investors
- Interacted with students on their idea feasibility and possible bootcamp training for selected student batches in future



Exclusively for II Year ECE students!!



PLACEMENT BLOCK, HAZEL



2-2-2026 Monday



12:30 PM - 2:50 PM



Students actively interacted with the mentors, presenting their ideas and discussing feasibility, challenges, and growth potential. The session provided exposure to startup ecosystems, funding opportunities, and investor expectations. It also encouraged students to strengthen their entrepreneurial mindset and innovation culture. Promising teams were identified for future bootcamps, incubation support, and startup acceleration programs. Overall, the mentoring session inspired students to think beyond academics and confidently explore entrepreneurship as a career pathway.

5) Industry Interaction	
On 13–14 February 2026, Dr. P. Latha and final-year student Ms. Renisha V from the PEP–Semiconductor and VLSI Design Centre visited ADVI Group of Company. They met Mr. B. S. Manusudhan, Director, and Ms. Lalitha Lakkur, Senior Project Manager, and discussed strengthening industry collaboration. The team toured the Static Timing Analysis and VLSI Technology Centres, gaining insights into current design practices. Discussions also focused on establishing a Centre of Excellence in Semiconductor and VLSI Technology on campus. Dr. Latha additionally served as a Technical Evaluator during the company’s recruitment process.	
6) Publications	
<u>Journal Publications</u>	
1) GVignesh, G. D., Rakesh, J., & Balamurugan, A. M. (2026, February 18). Latency-aware load management in cognitive VANETs via hybrid Grey Wolf–Differential Evolution optimization. In Proceedings of the 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM). https://doi.org/10.1109/ICONSTEM65670.2025.11374774 2) Vignesh, G. D., Subash, K. M., Sudheesh, S. S., & Balamurugan, A. M. (2026, February 18). Adaptive power control in cognitive VANETs via quantum-behaved particle swarm optimization. In Proceedings of the 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM). https://doi.org/10.1109/ICONSTEM65670.2025.11374345 3) Vignesh, G. D., Wilson Arul Raj, J. D., Silambarasan, M., & Balamurugan, A. M. (2026, February 18). Dragonfly algorithm-based cooperative spectrum sensing for enhanced spectrum hole detection in cognitive VANETs. In Proceedings of the 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM). https://doi.org/10.1109/ICONSTEM65670.2025.11374840	

- 4) Vignesh, G. D., Sudharsan, T., Saravanan, G., & Balamurugan, A. M. (2026, February 18). HHO-NOMA: Harris Hawks optimization model for energy-efficient dynamic allocation in 5G downlink. In Proceedings of the 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM). <https://doi.org/10.1109/ICONSTEM65670.2025.11374868>
- 5) Vignesh, G. D., Saravanan, G., Balamurugan, A. M., & Sudharsan, T. (2026, February 12). Modified C-ED sensing under maximum select logic with improved detection accuracy using whale optimization algorithm in CR-WSN. In Proceedings of the 2025 Global Conference on Information Technology and Communication Networks (GITCON). <https://doi.org/10.1109/GITCON65266.2025.11379712>

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1.	 STUDENT WORKSHOP	The Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering organized a two-day workshop on “Building a Future-Ready Workforce with Employability Skills for Industry 4.0.” for II year students on 23rd and 24th of February 2026. The workshop was handled by resource persons Ms. Vaishnavi Saravanan, Partnership Development Lead, Mr. Prithvi, Project Manager, and Ms. Poornima Gunasekar, Project Management Associate from ASSIST Development Foundation. They shared insights on Electric Vehicle and robotics technologies and their realworld applications. The sessions also provided valuable career guidance and enhanced students' employability and practical skills. The workshop helped students develop industry-relevant competencies and prepared them for future career opportunities.

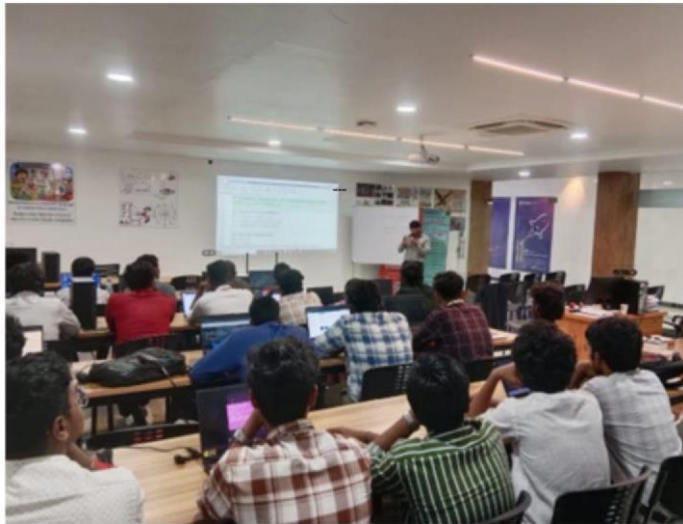
2.



GUEST LECTURE

A guest lecture on Automation in Renewable Energy Systems was organized on **03 February 2026** at the Library AV Hall, providing students with valuable insights into modern automation practices in renewable energy applications. The session was delivered by **Mr. Anbarasan Marimuthu, Controls Lead Engineer at GE Vernova, Chennai**. He explained renewable energy sources and highlighted the role of automation, sensors, controllers, and communication protocols in improving system efficiency and reliability. The lecture also covered automation in energy storage systems, including battery management, safety monitoring, and integration with renewable energy sources.

3.



GUEST LECTURE

A guest lecture on Robotic Modelling and Simulation was conducted on **20 February 2026** at the Library AV Hall. The session was delivered by **Dr.Santhakumar Mohan, Professor, Department of Mechanical Engineering, Indian Institute of Technology Palakkad**. He explained the fundamentals of robot modeling, kinematic and dynamic analysis, and behavior-based robotics. The resource person demonstrated MATLAB-based simulation for trajectory planning, motion control, and robotic behavior. He also discussed control strategies and industrial applications of robotic simulation in research and automation. The session was highly interactive, and students actively participated by asking questions and clarifying their doubts.

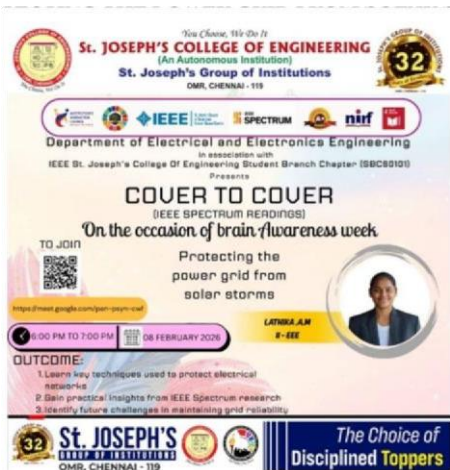
4.



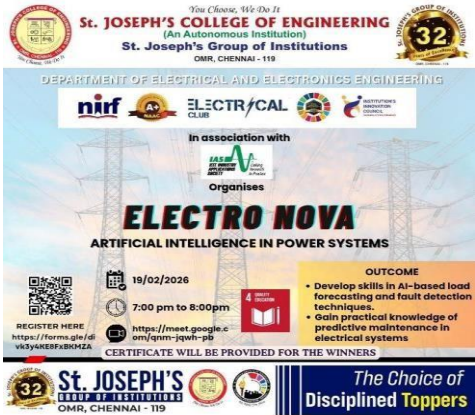
INDUSTRIAL VISIT

Department of Electrical and Electronics engineering arranged for industrial visit to ***National Institute of Wind Energy, Pallikaranai, Chennai on 12th, 13th of February 2026 for 2nd year A&B section respectively.*** Visit enabled student to gain practical knowledge about aerodynamic design of wind blades, savonious and darrieus type wind mill, solar and wind energy conversion systems integration.

5.	NGO Visit PIC: EVENT PHOTO	St. Joseph's College of Engineering organized a community service initiative for III Year Electrical and Electronics Engineering students on 09 February 2026. 'A' Section students visited <i>Holy heart home mission, Avadi</i> providing electrical maintenance support, basic health assistance, and interactive sessions for residents. 'B' Section students engaged with underprivileged individuals at <i>Vetri old age home, Sithalapakkam</i> leading health awareness programs and recreational activities.
6.	Student Achievements	1. The Team Zircons [Bhuvaneshwari T, Arulmozhi R, Harish M S-(III years), Aishwarya R, Deepika S, Monisha R. Amirtha Varshini, Dhwarakanath D, Guhan B, Anto Jeffrey A, Kritna Senan M – (II Years)] won Fifth Place in the Motocross Competition conducted on 13/02/2026 at SSN College of Engineering. They were also honored with the Excellence Award in recognition of their technical performance, innovation, and teamwork. 2. Hariprasath S, Deepak Prabhu C-IV Years, Jeslin Anista J, Rithesha R - III Years, Hariprasath C, Irfana Nazmeen J -II Years won First Prize with a cash prize of Rs. 8,000/- for their outstanding project presentation and innovative contribution in the Rural India Engineering Drive – Project Competition held on 14.02.2026 at IIT Madras.

7.	IEEE  PIC: EVENT POSTER	activities The speaker, Ms. LATHIKA A.M spoke on “PROTECTING THE POWER GRID FROM SOLAR STORMS” on 08th February 2026 between 6:00 p.m. and 7:00 p.m. The speaker enlightened us with the idea that solar storms, caused by coronal mass ejections and solar flares, can induce geomagnetically induced currents (GICs) in power transmission lines, leading to transformer damage, voltage instability, and large-scale blackouts. She explained the importance of continuous space weather monitoring, early warning systems, grid resilience planning, and the installation of GIC blocking devices to safeguard critical infrastructure. Advanced forecasting techniques, real-time grid monitoring, and improved transformer design were also discussed as key strategies to enhance the reliability and stability of modern power systems. The session was conducted for 2nd, 3rd, and final year students. A total of 35 participants actively took part and had an insightful experience during the meet, thoroughly engaging with the topic and interactive discussion. The speaker was honored with an E-memento as a token of appreciation.	4
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8.	IEEE PIC: EVENT POSTER	activities The speaker, Ms. Amirtha Varshini Purushothaman spoke on “CAN DIAMOND SOLVE THE CHIP HEAT DILEMMA” on 22nd February 2026 between 6:00 p.m. and 7:00 p.m. The speaker enlightened us with the concept that excessive heat generation is one of the major challenges in modern high-performance chips. As transistor density increases, efficient thermal management becomes critical to maintain performance and reliability. She explained how diamond, being an exceptional thermal conductor, can act as an effective heat spreader in semiconductor devices. The session highlighted the use of synthetic diamond substrates, diamond heat sinks, and diamond-on-silicon integration to dissipate heat more efficiently. Advanced packaging techniques and the potential of diamond-based materials in next-generation electronics were also discussed, emphasizing improved chip lifespan, energy efficiency, and enhanced processing speeds. The session was conducted for 2nd, 3rd, and final year students. A total of 25 participants actively participated and gained valuable insights into emerging thermal management technologies.	4
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9.	IEEE activities  PIC: EVENT POSTER & PHOTO	The Department of Electrical and Electronics Engineering, in association with the IEEE St. Joseph's College of Engineering Student Branch and IEEE Women in Engineering Affinity Group, organized CRESCENDO to commemorate the International Day of Women and Girls in Science. The session, titled “Beyond the Codes: Women in Engineering – A New World,” emphasized the vital role of women in advancing technology and innovation. The keynote address was delivered by Dr. Gunjan Varshney, an expert in Robotics and Artificial Intelligence, who shared her professional insights and experiences. She highlighted emerging opportunities, industry trends, and the importance of leadership and continuous learning in engineering. The session motivated students to build confidence, think creatively, and explore diverse career pathways. It also promoted inclusivity and encouraged young engineers to contribute meaningfully to research and innovation. CRESCENDO served as an inspiring platform for students to learn, connect, and envision their role in shaping the future of engineering.
10.	CLUB Activities  PIC: EVENT POSTER	The ELECTRICAL CLUB, in collaboration with the IEEE IAS SOCIETY, at St. Joseph's College of Engineering, organized a technical event on February 19, 2026. This exclusive online event started at 7:00 pm to 8:00 pm, via Google Meet with all the members of our club and society. OUTCOME • Develop skills in AI based load forecasting and fault detection techniques. • Gain practical knowledge of predictive maintenance in electrical systems.

11.

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

nirf **A+ NAAC** **SOCIAL AWARENESS CLUB** **INSTITUTIONS' INNOVATION COUNCIL**

In association with
IEEE SIGHT

Organises
VOICE OF CHANGE
 Social Issues and Youth Participation

11/02/2026
 6:00 pm to 7:00 pm

REGISTER HERE
<https://forms.gle/dlvk3vME8EXBHMZA>

meet.google.com/vny-uyjpi4bs

Outcome

- Participants developed a deeper understanding of current social issues affecting society.
- The program encouraged youth to actively participate in community service and social initiatives.

CERTIFICATE WILL BE PROVIDED FOR THE WINNERS

St. JOSEPH'S
 GROUP OF INSTITUTIONS
 OMR, CHENNAI - 119

The Choice of Disciplined Toppers

CLUB Activities

The **SOCIAL AWARENESS CLUB**, in collaboration with the **IEEE SPECIAL INTEREST GROUP ON HUMANITARIAN TECHNOLOGY**, at **St. Joseph's College of Engineering**, specializing in Electrical & Electronics Engineering, hosted a technical event on FEBRUARY 11, 2026. This exclusive online event started at 6:00 pm to 7:00 pm, via Google Meet with all the members of our club and society.

Outcome

- Participants developed a deeper understanding of current social issues affecting society
- The Program encouraged youth to actively participate in community service and social initiatives

12.

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

nirf **A++ NAAC** **INSTITUTION'S INNOVATION COUNCIL**

In association with

Organises

MOTOCROSS
HYBRID & ELECTRICAL BIKE SYSTEM

19/02/2026
 6:00 pm to 7:00pm
 meet.google.com/vnv-yypl-tbs

REGISTER HERE
<https://forms.gle/divk5yAKEBExBKMZA>

OUTCOME

- Participants developed technical understanding of EV components and performance optimization.
- Students explored real-world applications of hybrid systems in motocross and racing bikes.

CERTIFICATE WILL BE PROVIDED FOR THE WINNERS

St. JOSEPH'S GROUP OF INSTITUTIONS
 OMR, CHENNAI - 119

The Choice of Disciplined Toppers

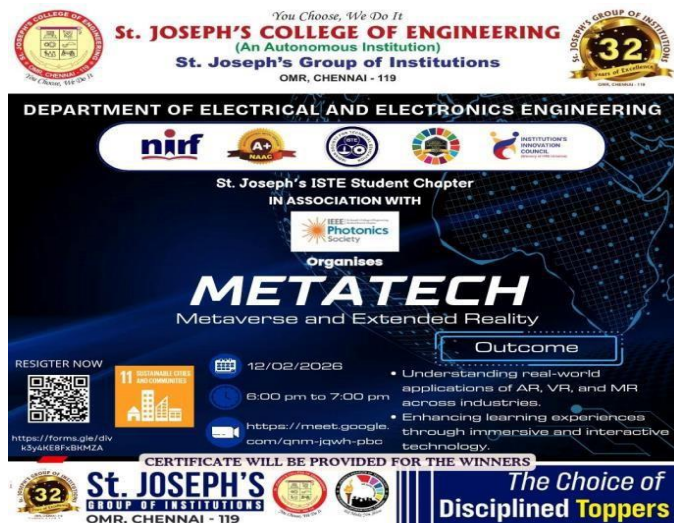
CLUB Activities

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **CHOPPERS CLUB IN ASSOCIATION WITH IEEE POWER ELECTRONICS SOCIETY** organized a technical event " **MOTOCROSS** " on **19/02/2026**. This exclusive online event started at 6:00 pm to 7:00 pm, via Google Meet with all the members of our club and society. The event focused on exploring the hidden technical talents of students by encouraging them to analyse and understand existing electrical Bike. It enhanced participants' analytical thinking, technical decision-making skills, and provided exposure to relevant engineering tools and workflows, making the session both engaging and insightful.

OUTCOME

- Participants developed technical understanding of EV components and performance optimization
- Student Explored real-world application of hybrid system in motocross and racing bikes.

13.



ISTE Activities

The St. Joseph's ISTE Student Chapter in association with IEEE PHOTONICS & AUTOMATION SOCIETY at St. Joseph's College of Engineering, specializing in Electrical & Electronics Engineering, hosted a technical event on FEBRUARY 12 2026. This exclusive online event started at 6:00 pm to 7:00 pm, via Google Meet with all the members of our club and society.

OUTCOME

- Understanding real-world applications of AR, VR, and MR across industries.
- Enhancing learning experiences through immersive and interactive technology.

14.



Alumni Interaction

PIC: EVENT PHOTO

An Alumni Talk on “AI and ML for Electrical Engineers” was delivered by our distinguished alumnus T.N.Velayudham (Batch: 2011-2015), Associate Consultant, Observability Track,HCL Tech. (currently pursuing MS degree in Woolf University, Malta, Europe specialization in Data science and Machine Learning) on 5th February 2026 for third-year EEE students.

The speaker shared practical insights on Artificial Intelligence, Machine Learning, and their real-world applications in the electrical engineering field.

The session enabled students of St. Joseph’s College of Engineering to gain knowledge on emerging technologies and explore future career opportunities in AI-based industries.

15.



Alumni Interaction PIC: EVENT PHOTO

An Alumni Talk on “Trends and Opportunities in Robotics and Automation” was delivered by G. Kaushik (Batch: 2016 - 2020) Industrial Automation and Robotic Engineer, ARI Automotive Robotic India Pvt Ltd., Porur, Chennai, India on 12th February 2026 for second-year students. The speaker shared insights on current advancements in robotics, automation technologies, and industry expectations for aspiring engineers. The session helped the students to understand emerging career opportunities and the skills required to succeed in the automation sector.

16.

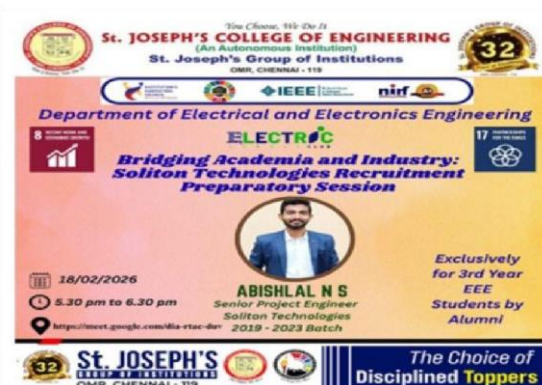


Alumni Interaction

A Career Guidance Session on “Master the Fundamentals of C Programming” was delivered by our alumnus Shamrutha J A, (Batch: 2021 - 2025) Associate Technical Consultant at WNS Global Services Pvt. Ltd., on 17th February 2026. The session focused on strengthening core programming concepts and emphasized their importance in technical interviews and industry applications.

17.

Alumni



Interaction

A preparatory session on “Bridging Academia and Industry: Soliton Technologies Recruitment” was delivered by our alumnus Mr. Abishlal N S, (Batch: 2019 - 2023) Senior Project Engineer at Soliton Technologies, on 18th February 2026. The speaker shared insights on recruitment processes, required technical competencies, and industry expectations for aspiring engineers.

PIC: EVENT POSTER

18.		An Alumni Career Empowerment Program on “Core Over Code” was delivered by Mr.Kathir D, Graduate Engineer Trainee at Renault Nissan Automotive India Pvt. Ltd., on 20th February 2026 for first year students. The session provided insights on core engineering career opportunities, higher education pathways, and industry expectations.
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19.

Alumni

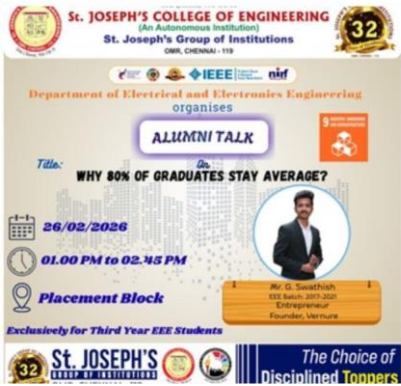


Interaction

A motivational talk on “Insight and Opportunities through GATE Exam” was delivered by Ms. Jayasuriya TJ, (Batch: 2015 - 2019) Assistant Manager at REDL Delta Electronics, on 21st February 2026.

The speaker highlighted the importance of the GATE examination for higher studies, career advancement, and opportunities in core engineering sectors. The session motivated students to prepare effectively for competitive exams and explore diverse pathways in higher education and professional growth.

PIC: EVENT POSTER

20.	Alumni Interaction  PIC: EVENT POSTER	An Alumni Talk on “Why 80% of Graduates Stay Average?” was delivered by G. Swathish, Founder of Venure, on 26th February 2026. The speaker shared insights on personal growth, skill development, and the mindset required to excel beyond average performance. The session inspired students to enhance their competencies, set clear career goals, and strive for excellence in their professional journey.	4
21.	Faculty Recognition	1. Dr Jayarama Pradeep, Professor and Head has acted as reviewer for Iranian Journal of Science and Technology and in International Conference on Emerging Challenges and Research Frontiers in Digital Transformation organized by Vikrant University, Gwalior. 2. Dr.T.D.Sudhakar, Associate professor presided as chief guest and inaugurated the BVM science expo 2026 at Bharatha vidyalaya mat.hr.sec.school, Tiruporur, on 4th February 2026. 3. Dr.N.Chidambararaj and Mr.R.Sreekanth fot selected for AICTE sponsored QIP-PG certification program on Machine learning and cyber physical systems @IIIT Tirchy.	5

22.	Faculty Publications	1. Dr V Krishnakumar, Associate Professor has published a paper titled "Otsu And Kapur Entropy Based Optimal Multilevel Image Thresholding Using Jaya and Stochastic Fractal Search Algorithms For Enhanced Image Segmentation" in journal "Archives for Technical Sciences" 2. Dr.M.Ramesh Babu published a patent titled "Developing an Bluetooth Car controller using Arduino UNO" 3. Dr.N.Chidambararaj published a patent "Smart Logistics Vehicle" 4. Dr.T.D.Sudhakar published patent titled "An IOT enabled cloud-based Machine learning framework for early breast cancer detection with automated risk assessment." 5. Ms.S.Gomathi published patent titled "Machine learning based system for predicting Academic performance using Social media addiction indicators in higher education."	5
23.	PLACEMENT DETAILS FOR THE MONTH OF FEBRUARY 2026	2022-2026 Batch No of students placed = 114 Students Total No of Offers = 167 Offers Total No of Students (UG) = 171 Total No of Students Sports Causals (UG) = 01 Total No of Eligible Students (UG) = 141 (All Clear) $\% \text{ of students Placed (UG)} = 114/171 = 66.67\%$ No of students having single offers = 70 No of students having Double offers = 37 No of students having Triple offers = 5 No of students having 4 offers = 2	4

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
4	FDP/Workshop/Conference	Invited Talk 1. Dr. K. Dhanaraj had delivered an invited talk at the “International Conference on Advanced Nanomaterials and their applications” held on 21-02-26, conducted by “Thirukoilur College of Arts and Science, Thirukoilur”.
9	Awards/Prize won by students / Staff	Staff 1. Dr. S. Suresh, Dr. N.R. Rajagopalan and Dr. G. Sasiskumar had received NPTEL Discipline Star certificates from IIT Madras – NPTEL Chapter, 01.02.2026. 2. Dr. P. Saravanan and Dr. P. Krishnan had received IGEN energethon awards, from “The Institution of Green Engineers” on 03.02.2026. 3. Dr. S. Rama had received “Best Teacher Award” from “Skyline Global Publishers” on 16.02.2026. Students 1. Mr. A. Maharishi, Mr. J. Lawrence of I ADS, had secured “First prize, with a cash award of Rs. 50,000” in “Codethaon 2.0- Hackathon event” conducted by “Sri Eshwar College of Engineering, Coimbatore” held from 04.02.2026 to 05.02.2026. 2. Mr. P. Sharad of I Cyber Security had secured “Second prize” in “Technical symposioium – Glitched event” conducted by “Chennai Institute of Technology,

		Chennai” held on 09.02.2026. 3. Ms. B. Gunaselvi of I AML, had secured “Second prize” in “Technical symposium - Quantix '26 – Cinemosaic event” conducted by “Agni College of Technology, Chennai” held on 14.02.2026. 4. Ms. K.R. Sai Pooja, Ms. S. Vishnu Priya of I EEE, had secured “First prize” in “Technical symposium - Quantix '26 – Pulse IQ event” conducted by “Agni College of Technology, Chennai” held on 14.02.2026. 5. Mr. S. Thanneermalai, Mr. S. Sai Sushi of I EEE, had secured “First prize” in “Technical symposium - Quantix '26 – Rapid Hardware event” conducted by “Agni College of Technology, Chennai” held on 14.02.2026. 6. Mr. Viswath Manikandan, Mr. Trishith Arjun, Mr. Sushanth Muralikrishnan of I Cyber Security, had secured “First prize, with Cash prize of Rs. 2000” in “Technical symposium - Techblaze '26 – Crossword event” conducted by “Hindustan Institute of Technology & Science, Chennai” held from 27.02.26 to 28.02.26. 7. Mr. Maharishi A of I ADS, had secured “Second prize” in “Technical symposium - Techblaze '26 – Crossword event” conducted by “Hindustan Institute of Technology & Science, Chennai” held from 27.02.26 to 28.02.26. 8. Ms. Akshaya Sri Nimmagadda, Ms. Renee Sharon of I Cyber Security, had secured “Second Prize” in “Technical symposium - Virtuza 2K26 – Cryptic Hunt event” conducted by “Thangavelu Engineering College, Chennai” held on 28.02.26. 9. Ms. Angeline Marry, Ms. Sherine David of I Cyber Security, had secured “Thrid
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		Prize” in “Technical symposium - Virtuza 2K26 – Bug Hunters event” conducted by “Thangavelu Engineering College, Chennai” held on 28.02.26.
11	Publications(only published) details	<i>Journal Publications:</i> 1. Dr. P. Saravanan published a research article titled “Engineered ZSM-5 Zeolite Composites for Advanced Water Purification: Recent Progress and Future Perspectives” in the Journal “Journal of Water Process Engineering”. Doi: https://doi.org/10.1016/j.jwpe.2026.109726 2. Dr. P. Saravanan published a research article titled “Z Scheme-Inspired Lanthanide-Infused WO₃/g-C₃N₄ Photocatalyst for Rapid Sunlight Degradation of Fluoroquinolone Antibiotics” in the journal “Topics in Catalysis” Doi: https://doi.org/10.1007/s11244-026-02270-9 3. Dr. P. Saravanan published a research article titled “Nanogeochemical photocatalysis for mitigating Antibiotic Pollution for Visible-Light degradation of Moxifloxacin via Rare-Earth-Integrated Mxene/g-C₃N₄ Heterostructures” in the journal “Environmental Geochemistry and Health” . Doi: 10.1007/s10653-026-03067-1 4. Dr. P. Saravanan published a research article titled “Impact of Thermal Treatment on Bandgap and Morphological Properties of α-Fe₂O₃ Nanoparticles for Photocatalysis” in the journal “Topics in Catalysis” Doi: https://doi.org/10.1007/s11244-025-02263-0 5. Dr. P. Saravanan published a research article titled “From Nature to Nanostructures: Advances in Green and Bio-Inspired Catalysts for Renewable Energy and Pollution Mitigation” in the journal “Ionics”

		Doi: 10.1007/s11581-026-07023-y 6. Dr. P. Saravanan published a research article titled “Innovative Routes for Hydrogen Production from Waste Plastics: A Comprehensive Review of Thermochemical, Photocatalytic, and Electrocatalytic Technologies” in the journal “Green Chemistry” Doi: 10.1039/D5GC04989J 7. Dr. S. Suresh published a research article titled “Enhanced Electrochemical Performance of α-MnO₂ through Sr²⁺ & Cd²⁺ Co-doping for Advanced Energy Storage Applications ” in the journal “Advanced Composite Materials” Doi: 10.1080/09243046.2026.2624962 8. Dr. N.R. Rajagopalan published a research article titled “Biogenic Synthesis of Iron Oxide Nanoparticles Using Soyimida febrifuga Bark Extract: Characterization, Antibacterial, and Antioxidant Evaluation” in the journal “Results in Chemistry” Doi: https://doi.org/10.1016/j.rechem.2026.103115 9. Dr. N. Punitha published a research article titled “Investigation of dynamic mechanical, fatigue, and creep behavior of squid fish–derived collagen and Alpinia galanga stalk fiber–reinforced vinyl resin composites” in the journal “Journal of Composite Materials” Doi: https://doi.org/10.1177/00219983261424435 10. Dr. P. Krishnan published a research article titled “(E)-2-[(2,4-Dihydroxybenzylidene)amino]-3-hydroxypyridine: Synthesis, Anti-microbial, Antioxidant Activity and Binding Interactions with SARS-CoV-2 ” in the journal “Rasayan Journal of Chemistry” Doi: http://doi.org/10.31788/RJC.2026.1919462
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		Patents 1. Dr. P. Saravanan published a patent titled “Advanced Lipid Nanoparticle Platforms for mRNA-Based Vaccines and Therapeutics” - in the “Patent Office Journal 07/2026” – Application Number 202641010323, dt 13.02.26 2. Dr. A. Uma Devi published a patent titled “Polymer Nanocomposite-Based Ammonia Gas Sensor with AI Pattern Recognition” - in the “Patent Office Journal 08/2026” – Application Number 202541127999, dt 20.02.26. 3. Dr. S. Manikandan published a patent titled “Unsupervised Intrusion Detection Engine Using Sparse Autoencoders for Security Data” - in the “Patent Office Journal 08/2026” – Application Number 202641013587, dt 20.02.26. Reviewers: 1. Dr. N.R. Rajagopalan – American Journal of Applied and Industrial Chemistry 2. Dr. S.M. Prakash – Discover Chemistry 3. Dr. K. Dhanaraj – Ceramic International
13	Other activities(if any)	The Department of Science has conducted the following activities. 1. Alumni Talk - Ms. Shevanie Shupreeya - (CSE - Batch 2020-2024) Topic – From Campus to Corporate – My Journey – on 16.02.2026 2. Alumni Talk – Mr. D. Kathir - (EEE - Batch 2021-2025) Topic – Core over code – on 20.02.2026 3. Music & Instruments club activities – on 24.02.2026 4. Science club activities – 26.02.2026

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks				
FDP/Workshop/Conference					
					
	S.No	Staff Name	NPTEL Course Name	Organized by	Duration
	1	Dr.G.Venkat Narayanan	Accreditation and Outcome Based Learning	IIT Kharagpur	July – Oct 2025
	2	Dr. P. Agilan			
	3.	Dr. S. Aruna			
Awards/Prize won by staff	1. Joycelyn S, Manasha G, and Karthikeyan C K from the Department of Information Technology (First Year) secured the 3rd Prize in the Paper Presentation event at the Talos 5.0 Symposium, conducted at CIT College on 04- 02-2026. Their paper titled “Early Prediction of Student Dropout Using Machine Learning for Proactive Academic Intervention” received a cash prize of Rs. 1000.				
	2. Mohit Khanna, a first-year student from the Department of Information Technology, secured 2nd place in the Paper Presentation event at Cyberfest 26, held at KCG College on February 26, 2026. His paper, "Life Threat Prediction using AI," earned him a cash prize of ₹1,000				
	3. G. Gopika, First year Information Technology, secured the IIIrd position in the Web Development Symposium event organized by SRM Valliammai Engineering College on 27.02.2026. She also received a cash prize of Rs. 1,000.				
Publications(only published) details	1. S. Prabhu, T. Jenifer Janany, M. Arulperumjothi , I.G. Yero, Edge metric basis and its fault tolerance over certain interconnection networks, Journal of Parallel and Distributed Computing, Volume 204, 2025,105141,https://doi.org/10.1016/j.jpdc.2025.105141.				
	2. Alhazmi, Muflih, Gangatharan Venkat Narayanan , Perumal Chellamani , and Shreefa O. Hilali. 2025. "Exploring Symmetry Structures in Integrity-Based Vulnerability Analysis Using Bipolar Fuzzy Graph Theory" <i>Symmetry</i> 17, no. 9: 1552. https://doi.org/10.3390/sym17091552 , SCIE				

	3. Sridhar, A., Kudiyrasudevi, C., Venkat Narayanan, G. et al. Breast Cancer Detection Using a Graph-Steerable Network and Bio- Inspired Optimization. Biomedical Materials & Devices (2025). https://doi.org/10.1007/s44174-025-00500-4 (SCOPUS)
Funded Projects	
Other activities	Department of Mathematics & English organized an Alumni Talk titled “Heavy Equipment Maintenance and Industry 4.0: Insights from Caterpillar” exclusively for First Year Mechanical and Mechatronics students on 13 February 2026 at the Library AV Hall (08.00–09.30 am). The session was delivered by Mr. Merage Fernando SVA, Service Information Developer and alumnus (Batch 2017–2021, Mechanical Engineering). He shared insights on industry practices, heavy equipment maintenance, and career opportunities related to Industry 4.0.Dr.