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



MAY 2026

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	STUDENT ACHIEVEMENTS 	Our Third-year students (Batch 2023-2027) and Second year Students (Batch 2022-2026) have showcased academic excellence by securing medals in the NPTEL examinations, reflecting their dedication and strong conceptual understanding.

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DEPARTMENT OF BIOTECHNOLOGY
NPTEL SILVER MEDAL ACHIEVERS

 **Elite**  **II YEAR**
BATCH: 2023-27

 Sanjana G 312323214042	 Gerald Adarsh K 312323214013	 Varshini B 312323214057	 Susmithaa S 312323214051	 Santhosh M D 312323214044	 Sanjay Kumar S 312323214043
 Sherwin Dominic 312323214045	 Kowshika N 312323214029	 Madeehah 312323214030	 Kavindra L 312323214027	 Nithyashree P G 312323214035	 Vijay Krishnaa B 312323214059

St. JOSEPH'S
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The Choice of
Disciplined Toppers

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DEPARTMENT OF BIOTECHNOLOGY
NPTEL ELITE ACHIEVERS
Elite

III YEAR
 BATCH: 2023-27

 Amirtha Varshini K 312323214003	 Maria Tressa T 312323214001	 Chandrika L 312323214007	 Arjanha R 312323214005	 Varol Jerome A 312323214054	 Poshika S T 312323214036	 Abirami S 312323214001
 Triha M A 312323214052	 Harsha D 312323214017	 Harshitha P 312323214019	 PrathipaSriji P 312323214038	 Sivaprabash S 312323214046	 Jeevantiika J 312323214023	 Kavya K 312323214028
 Sowmiya M 312323214048	 Dhiya Dharshini K 312323214012	 Moushiga S M 312323214033	 Pragadees U 312323214037	 Aloysius Rancy A 312323214002	 Karpagam R 312323214026	

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Department of Biotechnology

NPTEL

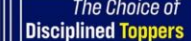
Gold Medal Achievers

Batch
2024 - 2028

 ADDLENE PONSIYA K 312324214001	 KEERTHI SHRI R 312324214023	 NETHRA SRINIVASAN 312324214032	 NIKHILL S 312324214033
 NITHYASHREE G 312324214034	 POOJA PARAKUNNIS 312324214038	 PRADEEPTHIKA K H 312324214039	 PRIVADHARSHIKA M 312324214042
 RASHMIKA RAGHUNATH NAIR 312324214046	 SABRIN H 312324214048	 SANDHYA SIVARAMAN RAMESH 312324214050	 SURIYA TEJAL S 312324214056




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 32 YEARS OF INSTITUTION

DEPARTMENT OF BIOTECHNOLOGY
 NPTEL
SILVER MEDAL ACHIEVERS

BATCH
 2024 - 2028

 ARUNASRI P.M 312324214007	 TANUSHRI T 312324214057	 HARINI S.R 312324214017	 HARSHITHA R 312324214019
 KENITH JELINA J 312324214024	 SRI VIDYA A.B 312324214054	 SMERA ATHIBAN 312324214053	 JOTHEESWARI G 312324214021
 NIVETA M 312324214036	 MONIKA S 312324214029	 VARNIKA S 312324214059	 MATHI E 312324214027
 MERCY SHALINI A 312324214028	 NIVEDITHA V.S 312324214035	 HARINI M 312324214016	


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DEPARTMENT OF BIOTECHNOLOGY



NPTEL

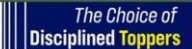
BATCH
2024 - 2028

SILVER MEDAL ACHIEVERS

 SAMYUKTHA C 312324214009	 ANUSHAYA MARY S 312324214004	 AKSHAYA S 312324214002	 ARUNA P 312324214006
 KEERTHANA R 312324214022	 ROSHIKA V 312324214047	 ANGELINA ASHNA A S 312324214003	 GOVADHARSHINI K 312324214014
 BALAMURUGAN S 312324214009	 RAGUL P 312324214044	 VEDIYAPPAN P 312324214061	 VARUN RAJA M R 312324214060
 NAVEEN S 312324214031	 PRAJIN RAJA J 312324214040	 GOVINDARAJ M 312324214015	



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*The Choice of
Disciplined Toppers*

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2. PAPER/BOOK CHAPTER PUBLICATION BY FACULTY

Dr. G. Baskar from the Department of Biotechnology has published a paper entitled "Green Synthesized MOS-Zinc Oxide Nanoparticles from Dictyota bartayesiana Extract with enhanced antioxidant, antimicrobial and anticancer efficacy" in BioNanoScience Journal.



Green Synthesized MOS-Zinc Oxide Nanoparticles from *Dictyota bartayresiana* Extract with Enhanced Antioxidant, Antimicrobial, and Anticancer Efficacy

Gurunathan Baskar^{1,2} · Vadivel Kalkieshwari¹ · Christian David Paul Bernita Celas¹ · Muthusamy Muthulakshmi¹

Received: 19 February 2026 / Accepted: 20 May 2026
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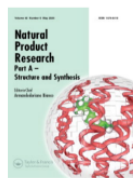
Abstract

In the present study, the key problem addressed is the limited biocompatibility, toxicity and lack of multifunctionality in conventional nanoparticles based therapeutic system, which necessitates the development of safer, sustainable, and functionally enhanced alternatives. A green synthesis method utilizing *Dictyota bartayresiana* (macroalgae) extract and zinc acetate were used to produce zinc oxide nanoparticles. Glutaraldehyde was used as a cross-linker to integrate the green synthesised nanoparticles into mannanoligosaccharide (MOS), a naturally occurring prebiotics biopolymer. Glutaraldehyde was utilized as a crosslinking agent to form covalent linkages among MOS and ZNPs, enhancing structural stability, dispersion, and biological activity compared to simple physical mixtures. The synthesized zinc nanoparticles (ZNPs) and MOS-ZNPs crosslinked with glutaraldehyde have been independently characterized the usage of UV-Vis spectroscopy, FTIR, XRD, TGA, and SEM with EDX analyses. The antioxidant activity has been assessed the usage of the DPPH (2, 2-diphenyl-1-picrylhydrazyl) assay of (56.8% at 500 µg/mL). The integration of MOS with zinc nanoparticles showed remarkable antimicrobial activities against pathogenic bacteria and fungi, the MIC values was found to be MIC values (125–250 µg/mL) and (125–500 µg/mL), respectively, suggesting its potential as a multifunctional bioactive material. The anticancer effect of the substance was evaluated through MTT assay testing and apoptosis examination at the A549 lung cancer cell line. The IC₅₀ value of 20.64 µg/mL showed strong cytotoxic effects which caused cell death through apoptosis. Overall, the incorporation of zinc nanoparticles greatly enhanced the stability and biocompatibility of mannanoligosaccharides. These results show that the MOS-ZNPs composite has great potential, offering prebiotic benefits along with antimicrobial and anticancer properties, making it a valuable option for biomedical and therapeutic applications.

Keywords *Dictyota bartayresiana* · Mannanoligosaccharide · Zinc oxide nanoparticles · Anti-microbial effect · Anti-cancer potential · Apoptosis

Dr. M. Chamundeeswari from the Department of Biotechnology has published a research article entitled “Green way aqueous extraction of *Corbichonia decumbens* leaves produced from Kolli hills and investigation of their various biological activities” in the journal Natural Product Research

A copy of proof



Natural Product Research
Formerly Natural Product Letters

ISSN: 1478-6419 (Print) 1478-6427 (Online) Journal homepage: www.tandfonline.com/journals/gnpl20

Green way aqueous extraction of *Corbichonia decumbens* leaves procured from Kolli hills, Tamil Nadu, India, and investigation of their various biological activities

Gayathri Ramalingam, Ashwini Devi Balaraman, Poojasri Sribal, Meenakumari S, Arjun Chandra Balaji B, Chamundeeswari M, Sathiya Gunasekaran, Andrew Charles, Venkatesan D & Rubalakshmi G

To cite this article: Gayathri Ramalingam, Ashwini Devi Balaraman, Poojasri Sribal, Meenakumari S, Arjun Chandra Balaji B, Chamundeeswari M, Sathiya Gunasekaran, Andrew Charles, Venkatesan D & Rubalakshmi G (13 May 2026): Green way aqueous extraction of *Corbichonia decumbens* leaves procured from Kolli hills, Tamil Nadu, India, and investigation of their various biological activities, Natural Product Research, DOI: [10.1080/14786419.2026.2661268](https://doi.org/10.1080/14786419.2026.2661268)

To link to this article: <https://doi.org/10.1080/14786419.2026.2661268>

A copy of proof

Dr. M. Chamundeeswari from the Department of Biotechnology has published 2 book chapters in the book entitled “Functional Glycomics”

	Chapter Glycomics as Potential Biomarkers of Behavioural Disorders, Infection, and Diseases By M. Barathi, M. Chamundeeswari, Mary R. Nancy Flora Book Functional Glycomics Edition 1st Edition First Published 2026 Imprint CRC Press Pages 24 Share ABSTRACT Glycans, the fundamental architects of biological systems, govern cellular interactions, immune recognition, and disease mechanisms with remarkable precision. These multi-faceted sugar molecules impact everything from neurology to the development of cancer, and are dynamic participants in regulating both illness and health beyond their roles in structure. Unlike traditional protein and nucleic acid indicators, glycomics are able to interpret the complex code of glycans to find new biomarkers that are more sensitive and disease-specific. Infectious diseases and neurodegenerative diseases and all the intervening categories, through everyone, glycan signatures hold unprecedented hope for early prognosis and diagnosis. Glycomics, proteomics, metabolomics, and lipidomics converge to enable a systems-level perspective on disease mechanisms and unprecedented therapeutic opportunities. High-throughput analysis of glycans is being propelled by mass spectrometry, glycosyl microarrays, and machine learning. Nevertheless, clinical translation remains challenging, inter-individual variability issues persist, and standardization continues to be an issue. As precision medicine becomes the norm, glycomics, with its extremely individualized diagnostics and next-generation glycoengineered therapeutics, is poised to transform healthcare. By taking molecular sophistication to the bedside, glycomics is transforming biomedical science and defining the future of <i>A copy of proof</i>	
3.	FACULTY ONLINE COURSE COMPLETION:	Dr. B. Sangeetha from the Department of Biotechnology has secured a Silver medal in the NPTEL exam for completing a 12 week course on “Biomass Conversion and Biorefinery” during January to April 2026.



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)





This certificate is awarded to

SANGEETHA BASKARAN

for successfully completing the course

Biomass Conversion and Biorefinery

with a consolidated score of **83** %

Online Assignments	25/25	Proctored Exam	57.75/75
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Total number of candidates certified in this course: 797



Jan-Apr 2026

(12 week course)



Dr. Sali Kashyap
Coordinator, Centre for Educational Technology,
 IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL26CH19S1550301418

To verify the certificate



No. of credits recommended: 4

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DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
	ACADEMIC AUDIT	The audit was carried out by a distinguished panel of external experts, Dr. K. Tamilarasan, Associate Professor from S.R.M Institute of Science and Technology, Kattankulathur, and Dr. P. Gomathi Priya, Professor from A.C. Tech, Anna University, Chennai. Their vast academic and research expertise provided valuable insights into the department's academic processes and standards. The audit process involved a comprehensive evaluation of curriculum delivery, teachinglearning methodologies, student performance, laboratory facilities, research activities, and documentation practices. Faculty members actively presented course files, innovative teaching strategies, assessment methods, and student outcomes, reflecting the department's commitment to outcome-based education. 

STUDENT ACHIEVEMENT

The release of the Common Engineering Entrance Test and Admissions – Postgraduate (CEETA-PG) 2026 scorecards by Anna University has brought attention to the impressive performances of aspiring postgraduate engineering candidates across Tamil Nadu. CEETA-PG serves as the gateway for admissions into M.E., M.Tech., M.Arch., and M.Plan programmes offered by Anna University and its affiliated institutions. Among the successful candidates, **Santhosh K. J.**, a 2026 passed-out graduate, secured an outstanding **98.014** percentile, placing him among the top-performing candidates in the examination. Another notable achiever is **K. Udayashamini**, a 2025 passed-out graduate, who secured an impressive **82.986** percentile in **CEETA-PG 2026**.

COMMON ENGINEERING ENTRANCE TEST & ADMISSIONS ANNA UNIVERSITY, CHENNAI - 600025 CEETA - PG - 2026 SCORE CARD									
Registration Number	11553164								
Name of the Candidate	K. U. UDAYASHAMINI								
Date of Birth	09-06-2003								
Gender	Female								
Community	BC								
Nativity	Tamil Nadu								
Nationality	Indian								
									
Signature of the candidate									
<table border="1"> <thead> <tr> <th>PROGRAMME</th> <th>PERCENTILE SCORE IN FIGURES</th> <th>IN WORDS</th> </tr> </thead> <tbody> <tr> <td>M.E./M.Tech./M.Arch./M.Plan</td> <td>82.986</td> <td>Eight Two Point Nine Eight Six</td> </tr> </tbody> </table>				PROGRAMME	PERCENTILE SCORE IN FIGURES	IN WORDS	M.E./M.Tech./M.Arch./M.Plan	82.986	Eight Two Point Nine Eight Six
PROGRAMME	PERCENTILE SCORE IN FIGURES	IN WORDS							
M.E./M.Tech./M.Arch./M.Plan	82.986	Eight Two Point Nine Eight Six							
SECRETARY, TANCET									
IMPORTANT NOTE 1. CEETA-PG (M.E./M.Tech./M.Arch./M.Plan) candidates have to exercise the choice of college & branch in the web portal after notifications from Anna University. 2. Hall Ticket should be produced with this Score Card during admission process. 3. This Score Card is valid only for the Academic Year 2026-2027.									
27-05-2026 02:35 PM									

COMMON ENGINEERING ENTRANCE TEST & ADMISSIONS ANNA UNIVERSITY, CHENNAI - 600025 CEETA - PG - 2026 SCORE CARD									
Registration Number	11553143								
Name of the Candidate	SANTHOSH K. J.								
Date of Birth	02-05-2005								
Gender	Male								
Community	BC								
Nativity	Tamil Nadu								
Nationality	Indian								
									
Signature of the candidate									
<table border="1"> <thead> <tr> <th>PROGRAMME</th> <th>PERCENTILE SCORE IN FIGURES</th> <th>IN WORDS</th> </tr> </thead> <tbody> <tr> <td>M.E./M.Tech./M.Arch./M.Plan</td> <td>98.014</td> <td>Nine Eight Point Zero One Four</td> </tr> </tbody> </table>				PROGRAMME	PERCENTILE SCORE IN FIGURES	IN WORDS	M.E./M.Tech./M.Arch./M.Plan	98.014	Nine Eight Point Zero One Four
PROGRAMME	PERCENTILE SCORE IN FIGURES	IN WORDS							
M.E./M.Tech./M.Arch./M.Plan	98.014	Nine Eight Point Zero One Four							
SECRETARY, TANCET									
IMPORTANT NOTE 1. CEETA-PG (M.E./M.Tech./M.Arch./M.Plan) candidates have to exercise the choice of college & branch in the web portal after notifications from Anna University. 2. Hall Ticket should be produced with this Score Card during admission process. 3. This Score Card is valid only for the Academic Year 2026-2027.									
28-05-2026 09:18 AM									

STAFF ACHIEVEMENT

The Departments of **Chemical Engineering and Computer Science Engineering** of St. Joseph's College of Engineering proudly celebrate the remarkable achievement of their faculty members who secured **Second Prize at the prestigious IEEE EDU HACK – 2026**, a 24- Hour Faculty Hackathon organized under the banner of the IEEE community.

The winning team comprised **Dr. S. Vinod Kumar, Associate Professor, Department of Chemical Engineering, and Dr. B. Uma Maheshwari, Department of Computer Science Engineering**. They were ably supported by student mentees **Sam Daniel from Chemical Engineering and Junaid Abdul Alim from Computer Science Engineering**. Their interdisciplinary collaboration, innovative thinking, and commitment to solving real-world educational challenges earned them recognition among several competing teams from across the region.



Dr. N. Venkatesh, Professor and Head of the Department, has

successfully completed the prestigious NPTEL online certification course Effective Writing through the SWAYAM platform, earning an **Elite certification** with an outstanding score of **85%**. A notable highlight of his achievement is securing a Top 5% rank among thousands of participants, demonstrating exceptional proficiency in academic communication and professional writing.



Mr. P. Anand Kumar, Assistant Professor, has successfully completed the prestigious NPTEL online certification course “**Fundamental of Carbon Capture, Utilization and Storage**”, earning an **Elite certification** with an impressive score of **82%**.



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
ANAND KUMAR P
for successfully completing the course



Fundamental of Carbon Capture, Utilization and Storage

with a consolidated score of **82** %

Online Assignments	25/25	Proctored Exam	57/75
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Dr. N. Magesh, Assistant Professor, has successfully completed the NPTEL online certification course “**Plastic Waste Management**” offered through the SWAYAM platform by IIT Kharagpur.



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
MAGESH
for successfully completing the course



Plastic Waste Management

with a consolidated score of **65** %

Online Assignments	25/25	Proctored Exam	40.13/75
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Total number of candidates certified in this course: **2157**

Jan-Mar 2026
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CE51S653401774

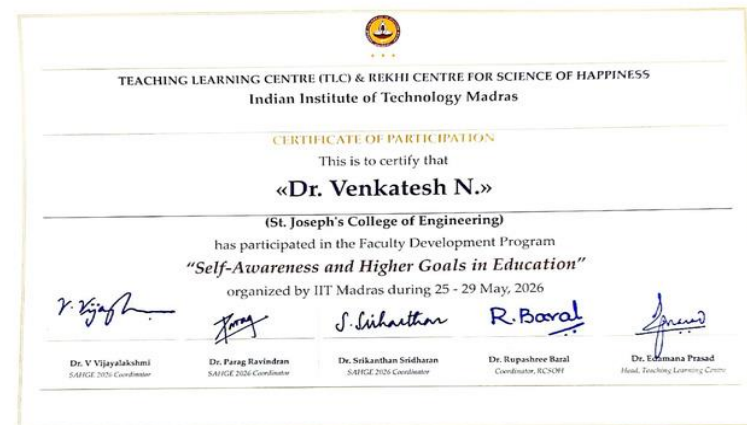
To verify the certificate



No. of credits recommended: 3

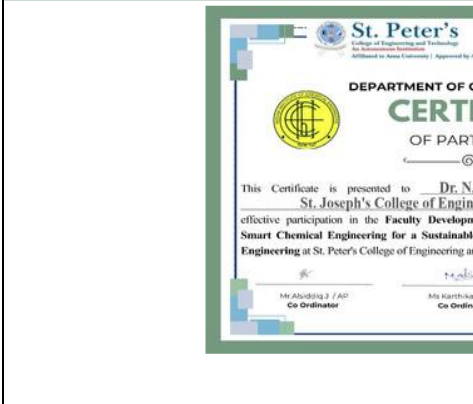
Dr. V. Renuka, Professor, on the successful registration of a design patent titled “**Agricultural Nano-Drug Delivery Device**” by the Patent Office, Government of India. The design has been officially registered under **Design No. 445890-001**, with the registration date of 08 May 2025,

		recognizing the novelty and originality of the innovative agricultural device.  The image shows a Certificate of Registration of Design issued by the Intellectual Property India, Government of India. The certificate is for a design titled 'AGRICULTURAL NANO-DRUG DELIVERY DEVICE'. It lists the inventors as 1. Dr. J. Madhusudhanan, 2. Dr. Renuka Viswanathan, 3. Dr. P. Vijayabaskar, 4. Dr. G. Vikram, 5. Dr. Yuvaraj Sampathkumar, 6. Mr. Kaushik Thamilchelvam, 7. Dr. Mohana Priya Arumugam. The certificate is dated 29/01/2025 and has a design number 445890-001. It includes a red ribbon seal and a signature of the Controller General of Patents, Designs and Trade Marks.
	STAFF ACTIVITY	Dr. N. Venkatesh, Professor and Head of the Department of Chemical Engineering, St. Joseph's College of Engineering, actively participated in the Faculty Development Programme (FDP) titled "Self-Awareness and Higher Goals in Education", organized by the Teaching Learning Centre (TLC) and Rekhi Centre for Science of Happiness, Indian Institute of Technology Madras, from 25th to 29th May 2026.



Scanned with OKEN Scanner

The faculty members of the Department of Chemical Engineering, namely **Dr. V. Renuka, Professor, Dr. S. Vinod Kumar, Associate Professor, Dr. T. Amudha, Professor, and Dr. N. Magesh, Assistant Professor**, actively participated in a six-day Faculty Development Programme (FDP) on “Green to Net Zero: Smart Chemical Engineering for a Sustainable Future” organized by the Department of Chemical Engineering, St. Peter’s College of Engineering and Technology, Chennai, from 4th May 2026 to 9th May 2026.

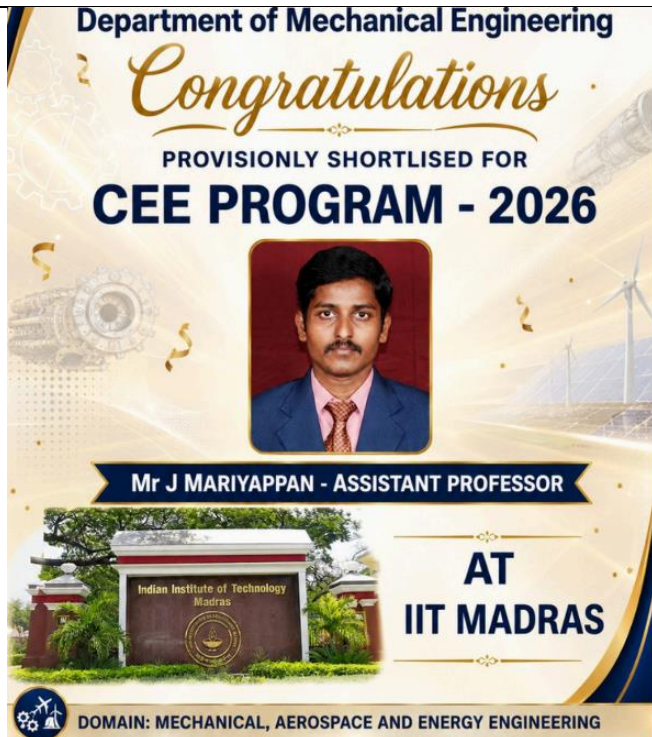
		 St. Peter's College of Engineering and Technology Affiliated to Anna University Approved by AICTE DEPARTMENT OF CHEMICAL ENGINEERING CERTIFICATE OF PARTICIPATION This Certificate is presented to <u>Dr. S. Vinod kumar</u> From <u>St. Joseph's College of Engineering, OMR, Chennai</u> for his /her effective participation in the Faculty Development Programme on the topic "Green to Net Zero: Smart Chemical Engineering for a Sustainable Future" organized by the Department of Chemical Engineering at St. Peter's College of Engineering and Technology on 04.05.2026, to 09.05.2026 Your paragraph text Mr. Abudulq 3 / AP Co Ordinator Ms. Karthika M / AP Co Ordinator Ms. J. Sheeba Vinolia Priyadarshini / AP - Head Convener  St. Peter's College of Engineering and Technology Affiliated to Anna University Approved by AICTE DEPARTMENT OF CHEMICAL ENGINEERING CERTIFICATE OF PARTICIPATION This Certificate is presented to <u>Dr. N. MAGESH</u> From <u>St. Joseph's College of Engineering</u> for his /her effective participation in the Faculty Development Programme on the topic "Green to Net Zero: Smart Chemical Engineering for a Sustainable Future" organized by the Department of Chemical Engineering at St. Peter's College of Engineering and Technology on 04.05.2026, to 09.05.2026 Mr. Abudulq 3 / AP Co Ordinator Ms. Karthika M / AP Co Ordinator Ms. J. Sheeba Vinolia Priyadarshini / AP - Head Convener	 St. Peter's College of Engineering and Technology Affiliated to Anna University Approved by AICTE DEPARTMENT OF CHEMICAL ENGINEERING CERTIFICATE OF PARTICIPATION This Certificate is presented to <u>Dr. T. Amudha</u> From <u>St. Joseph's College of Engineering, OMR, Chennai</u> for his /her effective participation in the Faculty Development Programme on the topic "Green to Net Zero: Smart Chemical Engineering for a Sustainable Future" organized by the Department of Chemical Engineering at St. Peter's College of Engineering and Technology on 04.05.2026, to 09.05.2026 Your paragraph text Mr. Abudulq 3 / AP Co Ordinator Ms. Karthika M / AP Co Ordinator Ms. J. Sheeba Vinolia Priyadarshini / AP - Head Convener
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	CEEE Training program 	Date : 18.06.2026 Venue : IIT Nature of Event : Training Participants : Selected staffs Objective : - Upskill faculty at Tier-3 and Tier-4 engineering colleges by pairing them with senior mentors from premier institutions like the IITs. - Update traditional teaching methods and content to match modern industry demands, significantly boosting graduate employability. - Foster advanced problem-solving, innovation, and AI skills in engineering students to help drive India's infrastructure and technological goals. Outcome : - Mentees successfully adopt outcome-based education practices, modern teaching tools, and high-impact instructional delivery. - Curriculums align with modern workspace demands, noticeably boosting engineering graduate performance, analytical thinking, and overall employability. - Tier-3 and Tier-4 institutions gain a permanent, robust network of expert guidance, enabling continuous regional engineering upskilling.

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	Faculty Acheivements:	➤ Dr. L. Balamurugan, Professor and Head, Department of Mechanical Engineering, has successfully published a research manuscript titled “Tribological Analysis of AA2024-basedHybrid Composites Reinforced with ZrO2 and Inconel 718 Under Varied Thermal and Lubrication Conditions” in the prestigious Journal of Materials Engineering and Performance. ➤ Dr. K. Arun, Associate Professor from the Department of Mechanical Engineering Published an article titled "Evaluating the Mechanical Properties and Microstructure of Basalt-Kenaf Polyester Composites with Cellulose Fillers" in Scopus Indexed Q2 Journal "Journal of The Institution of Engineers (India): Series D" ➤ Mr. M.SIVA, Assistant professor & Dr. N. Arunkumar, Professor from Department of Mechanical Engineering, published a paper on Investigation of tool life and operational efficiency of the coated electrode for machining die steels using a micro- electrical discharge machining process. Materials and Manufacturing Processes, 41(7), 1035–1050. Q1 journal with Impact Factor 4.7.

		➤ Dr. G. Ashwin Prabhu, Dr. J. Vijayanand & Mr. N. Sathishkumar, Assistant Professor from the Department of Mechanical Engineering Published an article titled "Mechanical and Sustainable Enhancement of Epoxy Composites using Tamarind Seed Powder" in "Journal of Polymer & Composite" a Web of Science (ESCI) Indexed Journal on 13th May 2026.
2		➤ Mr. J. Mariyappan, Assistant Professor from from Department of Mechanical Engineering, got selected for CEEE program organized by IIT, Madras for three weeks with stipended of Rs. 50,000/- for the domain Mechanical, Aerospace and Energy Engineering We are proud to congratulate Mr. R. Elakkiyadasan, Assistant Professor, on his outstanding achievement in successfully completing the NPTEL courses "Introduction to Materials Science and Engineering" and "Mechanical Behaviour of Materials (Part-1)" earning the prestigious Elite Achiever certification Further highlighting his academic excellence, he has also received the Domain Scholar Certificate and Discipline Star Certificate for his exceptional performance across these courses.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Events conducted:

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

1. Alumni Activities	Report
	The Department of Electronics and Communication Engineering of St. Joseph's College of Engineering organized an Alumni Placement Masterclass on "Decoding Data Patterns" for the 2023–2027 batch students. The session was delivered by Prithiv Raj S, an alumnus from the 2021–2025 batch who is currently working as a Graduate Engineer Trainee. The program focused on helping students understand data patterns and enhance their placement preparation skills. Conducted through Google Meet on 3rd May from 4.00 P.M to 5.00 P.M, the session provided useful industry-oriented knowledge and practical guidance. The event also motivated students by creating an opportunity to interact with a successful alumnus and learn from his experiences.

2. STAFF ACHIEVEMENTS-NPTEL	Report
a) Activity 1	The Department of Electronics and Communication Engineering proudly congratulates the faculty members for their outstanding achievements in NPTEL courses during January–May 2026. Their accomplishments include Topper recognitions, Gold Medals, Elite+Medal certifications, and Elite certifications across diverse domains of engineering and technology. These achievements reflect their commitment to continuous learning, academic excellence, and professional development. Mr. G D Vignesh, Assistant Professor, successfully completed the NPTEL course “Evolution of Air Interface towards 5G.” He secured an outstanding score of 92% and achieved the prestigious 1% Topper position. His accomplishment reflects strong expertise in emerging wireless communication

technologies.

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VIGNESH G D
for successfully completing the course
Evolution of Air Interface towards 5G

with a consolidated score of **92** %

Online Assignments	21.58/25	Proctored Exam	70.5/75
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Total number of candidates certified in this course: 110

Jan-Mar 2026
(8 week course)

Skill India
कोशल भारत - सुखल भारत

TOP TOPPER 1%

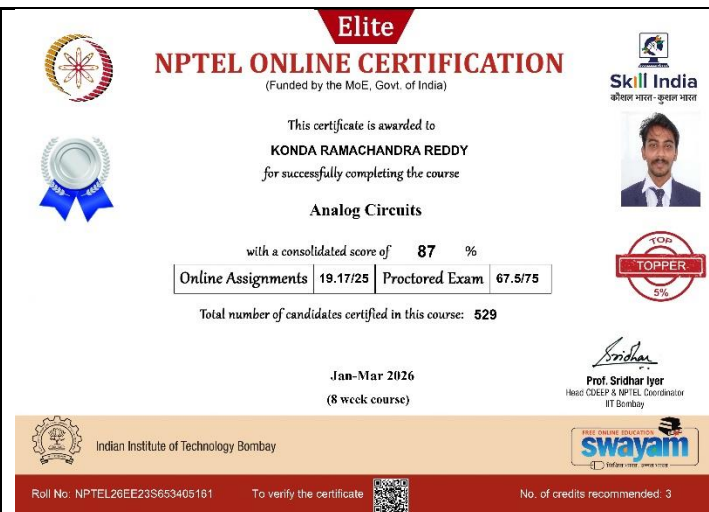
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam
SWAYAM EDUCATION
सिखल भारत - सुखल भारत

Roll No: NPTEL26EE57S553413234 To verify the certificate  No. of credits recommended: 3

Dr. K. Ramachandra Reddy, Assistant Professor, successfully completed the NPTEL course “Analog Circuits.” He earned the Elite+Silver certification with an impressive academic performance. His achievement demonstrates dedication towards strengthening core electronics concepts.



Dr. K. Ramachandra Reddy, Assistant Professor, successfully completed the NPTEL course “Principles of Communication Systems I.” He earned the Elite+Gold certification with an excellent score of 90. His achievement reflects strong knowledge in communication engineering fundamentals.



Dr. P. Latha, Associate Professor, successfully completed the NPTEL course on “Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective”. She earned the Elite certification through her dedicated academic performance. Her achievement showcases expertise in next-generation transistor technologies and semiconductor physics.



Dr. P. Latha, Associate Professor, successfully completed the NPTEL course “FPGA Based Signal Processing Systems.” She secured the Elite certification through her consistent learning efforts. Her accomplishment reflects strong knowledge in

FPGA architectures and signal processing applications.



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to

LATHA P

for successfully completing the course

FPGA Based Signal Processing Systems

with a consolidated score of **66** %

Online Assignments	21.75/25	Proctored Exam	44.5/75
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Total number of candidates certified in this course: **672**


Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator IIT Roorkee

Jan-Apr 2026
(12 week course)


Prof. Ranjana Pathania,
Professor (BSC)
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL26EE09S250305722

To verify the certificate



No. of credits recommended: 4

Dr. P. Latha, Associate Professor, successfully completed the NPTEL course “VLSI Physical Design.” She achieved the Elite certification, demonstrating her expertise in VLSI design methodologies and chip design concepts. Her accomplishment highlights dedication towards advanced learning in integrated circuit technologies.



NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

LATHA P

for successfully completing the course

VLSI Physical Design

with a consolidated score of **61** %


Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2026)

Roll No: NPTEL26CS5051350303001

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov. 2023, similar to other refresher / orientation courses.
F.No. AICTE / R/FPD / FDP through MOOCs / 2023

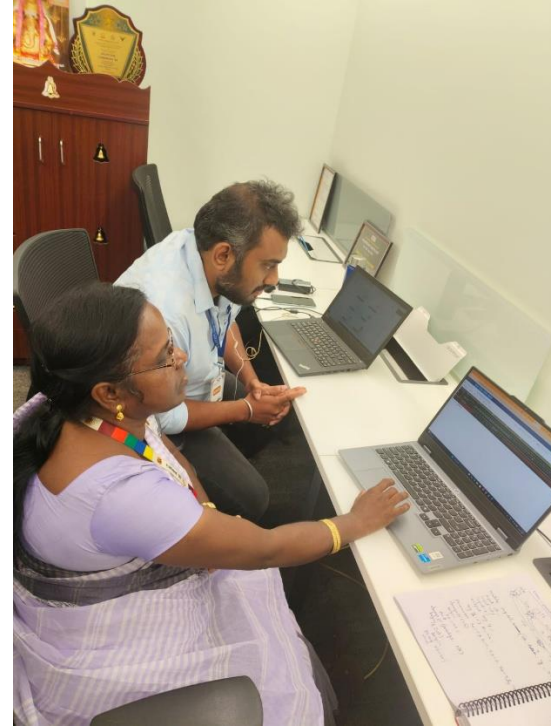
Dr. P. Elaveni, Assistant Professor, successfully completed the NPTEL course “Data Analytics with Python.” She secured 84% and achieved the 5% Topper recognition through her excellent performance. Her accomplishment demonstrates strong analytical and programming skills in data science.

	Dr. P. Elaveni, Assistant Professor, successfully completed the NPTEL course “Foundations of Deep Learning: Concepts and Applications.” She secured an excellent score of 94% and achieved the 1% Topper position. Her accomplishment highlights her expertise in artificial intelligence and deep learning technologies. Dr. K. Ramachandra Reddy, Assistant Professor, successfully completed the NPTEL course “Microprocessors and Microcontrollers.” The course enhanced his knowledge in processor architecture and embedded systems concepts. His participation reflects commitment towards continuous technical learning and professional development. Dr. G. Anitha, Assistant Professor, successfully completed the NPTEL course “Affective Computing.” She achieved the Elite+Silver certification with a commendable score of 87. Her accomplishment reflects keen interest in advanced interdisciplinary technologies and intelligent systems. Dr. S. Vinayagapriya, Associate Professor, successfully completed the NPTEL course on UNSDG. She secured the Elite+Silver certification with a score of 75 through her
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	dedicated efforts. Her accomplishment reflects commitment towards sustainability and global development initiatives. Dr. G. Sivagurunathan, Associate Professor, successfully completed the NPTEL course on UNSDG with commendable performance. He achieved the Elite+Silver certification, showcasing dedication towards continuous learning and sustainable development education. His accomplishment highlights his active participation in socially relevant academic initiatives. Dr. S. Sri Jamiya, Assistant Professor, successfully completed the NPTEL course “Data Analytics with Python.” She earned the Elite+Silver certification through her consistent academic performance. Her achievement reflects strong interest in data analysis and modern computational techniques. Dr. S. Sri Jamiya, Assistant Professor, successfully completed the NPTEL course on UNSDG. She secured the Elite+Silver certification with dedicated academic efforts and continuous learning. Her accomplishment highlights her commitment towards sustainable development and quality education initiatives.
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2. Knowledge Sharing Session	
a) Activity 1	We are pleased to inform you that our ECE staff member, Mr. G D Vignesh , successfully presented his research paper titled “ Performance analysis of CSS-EV based sensing under Max Select Logic with optimized Bayesian threshold for CR-VANETs” at the International Conference on RecentAdvances in Electronics, Communication, Computing, Automation, and Power (RECCAP), organized by the Indian Institute of Technology (IIT) Palakkad, Kerala from 22–24 May 2026.  The photograph shows two men standing in a room with a large presentation screen and a green chalkboard. The man on the left, wearing a light blue shirt and dark trousers, is holding a white certificate or document. The man on the right, wearing a light pink shirt and dark trousers, is also holding the document. A round analog clock is visible on the wall to the right of the chalkboard.

b)Activity 2	Dr. P. Latha, Associate Professor in the Department of Electronics and Communication Engineering (ECE), successfully completed a one-week Industrial Training Program on SystemVerilog and Universal Verification Methodology (UVM) conducted by TARAS Systems and Solutions Pvt. Ltd.. The training program provided in-depth exposure to advanced digital design verification methodologies widely adopted in the semiconductor and VLSI industry.
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During the training, Dr. P. Latha gained practical knowledge in SystemVerilog-based verification techniques, object-oriented programming concepts, constrained random verification, assertions, functional coverage, testbench architecture, and industry-standard UVM methodologies. The sessions also focused on developing reusable and scalable verification environments for complex SoC and ASIC designs.

6) Publications

Journals

- 1) Latha P., Benni N.S., Asuti M.G., Thamaraiselvi K. authored “Smart and efficient waste management through wireless IoT-enabled deep learning” in Scientific Reports, Volume 16, Issue 1 published in April 2026. DOI: 10.1038/s41598-026-43827-8.
- 2) B. Victoria Jancee, Balasubbareddy Mallala, Elangovan Muniyandi, Kurra Venkateswara Rao presented “Voltage regulation in smart microgrids: EV reactive power management via dipper throated optimization and PRGCNN” in Renewable Energy Focus, Elsevier, Volume 58 published in April 2026. DOI: 10.1016/j.ref.2026.100860.
- 3) Reji R., Mitha Rachel Jose, Latha P., Anith Shaji, Neethumol Sabu, Lakshmi R Nair, Divya Saleela, Shyna A. authored “Hiedl-MRI: A Hierarchical 3D Deep Learning Framework with Evidential Uncertainty Modelling for Brain Tumour Subregion Segmentation from Multi-Modal MRI” in the International Journal of Drug Delivery Technology, Volume 16, Issue 5 published in 2026. DOI: 10.25258/ijddt.16.5.32.
- 4) G.D. Vignesh, A.M. Balamurugan presented “Performance Analysis of Adaptive Switching Spectrum Sensing (ASSS) With WOA Technique for Improved PU Detection Under Segmentation-Based V-I Framework in CR-VANETs” in the International Journal of Communication Systems, Volume 39, Issue 7 published in May 2026. DOI: 10.1002/dac.70471.
- 5) Sakthivel S., Venkatesan K., Reddy K.R., Muthulakshmi M., Rahayu S.B. authored “A Systematic Review of Energy Aware Routing

Protocols for Underwater Acoustic Sensor Networks” in the International Journal of Integrated Engineering, Volume 18, Issue 1, Pages 34–45 published in 2026. DOI: 10.30880/ijie.2026.18.01.003.

Conferences

- 1) Sheela L., T. Babu, M. Suresh, S. Prabha presented “Examination of Benign/Malignant Colon Cancer from Histology Data with Deep Learning Model” at the International Conference on Innovative Data Communication Technologies and Applications (ICIDCA 2025) in January 2025. DOI: 10.1109/ICIDCA66325.2025.11280484.
- 2) Jasmine Mystica K., Saffron Dionysius T., Rakesh G. authored “AI Circuit Builder: Bridging Language & Logic” for the International Conference on Visual Analytics and Data Visualization (ICVADV 2025) in February 2025. DOI: 10.1109/ICVADV63329.2025.10960965.
- 3) Jasmine Mystica K., Jerlin Joy C.G., Subhashree S. presented “Footprint-Based Animal Identification: A Hybrid Model Combining CNN, SVM, and Transfer Learning” at the International Conference on Intelligent Systems Advanced Computing and Communication (ISACC 2025) in March 2025. DOI: 10.1109/ISACC65211.2025.10969165.
- 4) Dhinesh R., Ganeshkumar N., Jasmine Mystica K. contributed “Voxel Body Model-based SAR Analysis of a Single Band 5.8GHz Patch Antenna for Wearable Applications” to the International Conference on Emerging Applications of Material Science and Technology (ICEAMST 2025) in April 2025. DOI: 10.1109/ICEAMST67459.2025.11335618.
- 5) Mystica K.J., Harinishree R. presented “Agro HelioStor: A Smart, Solar-Powered Agro Storage System with IoT Monitoring and ML-based Crop Suitability Recommendation” at the International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2025) in May 2025. DOI: 10.1109/ICAAIC64647.2025.11330819.

- 6) Rajalakshmi S., Nithya E., Sivagurunathan G. presented “Lung Cancer Detection Using EfficientNet-B0 Features: A Comparative Analysis of XGBoost, SVM, and Decision Tree” at the International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2025) in May 2025. DOI: 10.1109/ICAAIC64647.2025.11330813.
- 7) Madhan M., Mohanraj P., Sivagurunathan G. authored “ESP32-based Smartphone Oscilloscope: Real-Time Signal Processing and Secure Cloud Integration via MQTT” for the International Conference on Sustainable Communication Networks and Application (ICSCN 2025) in June 2025. DOI: 10.1109/ICSCN67106.2025.11308427.
- 8) Logeshwar V., Madhavan S., Sivagurunathan G. presented “AI-Powered Bone Fracture Detection System with Vision Transformer and CNN Deep Learning Models” at the International Conference on Sustainable Communication Networks and Application (ICSCN 2025) in June 2025. DOI: 10.1109/ICSCN67106.2025.11308630.
- 9) S. Madhavan, V. Logeshwar, G. Sivagurunathan contributed “A Hybrid LSTM-VGG16 and Fuzzy Logic Framework for Illegal Land Occupation and Flood Damage Assessment from Satellite Imagery” to the International Conference on Advancement in Futuristic Technologies (ICAFT 2025) in December 2025. DOI: 10.1109/ICAFT66710.2025.11453015.
- 10) Elaveni P., Neelaveni R., Priya R. authored “Quantum-Inspired Probability Features with Random Forests for SAR Image Change Detection” for the International Conference on Computing, Communication, Control and Cyber-Physical Systems (I5CPS 2026) in February 2026. DOI: 10.1109/I5CPS67958.2026.11452261.
- 11) Aaditya Arvind S., Ashwanth C., P. Elaveni presented “Secure and Robust Audio Steganography for Smart Electronic Systems using GAIE-based Frame Selection and MAS Adaptive Embedding” at the 8th International Conference on Intelligent Sustainable Systems (ICISS 2026) in March 2026. DOI: 10.1109/ICISS67859.2026.11453926.
- 12) Keertana Natarajan, Kanishkaa S., S. Sri Jamiya presented “Lightweight CoSCo-CNN Architecture with Integrated SE and GAP for

Pathological Speech Classification” at the 5th International Conference on Artificial Intelligence and Signal Processing (AISP 2025) in November 2025. DOI: 10.1109/AISP68263.2025.11396215.

13) V. Vignesh, P.N. Vijay Adhithya, S. Sri Jamiya, M. Divya Shree authored “LPG Gas Level and Leakage Detection using AI Integration” for the 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2025) in November 2025. DOI: 10.1109/ICUIS67429.2025.11380734.

14) S. Ramanjaneyulu, Sudharshan Tumkunta, P. Latha, Rudraraju Anusha, S. Kaliappan, V. Venkataraman presented “GPU-Powered Sentiment Classification with VGG19 and RF+XGB for Improved Product Recommendations” at the International Conference on Future Technologies (ICFT 2025) in November 2025. DOI: 10.1109/ICFT66708.2025.11336494.

15) Thomas Epsiba N.J., Vimal Rency A., Latha P., Samuel Tensingh authored “AI-Enabled Adaptive DVFS Controller Using LMS-Based Prediction and FSM Logic: FPGA and Real-Time MATLAB Implementation” for the International Conference on NextGen Engineering Technologies and Applications (ICNEXTS’25) in February 2026. DOI: 10.1051/itmconf/20268201002.

16) Vimal Rency A., Roshni Kaviarasu, P. Latha presented “Quantum-Inspired Feature Mapping for Edge AI: A MATLAB-Based Hardware-Aware Co-Design Approach” at the 4th International Conference on Artificial Intelligence and Machine Learning Applications (AIMLA 2026) in May 2026.

17) Jayapreetha S., Praveena M., M. Angelin Ponrani authored “NeuroBand: A Wearable Device for Real-Time Parkinson's Monitoring” for the 4th International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2026) in January 2026. DOI: 10.1109/ICAAIC64647.2025.11330601.

18) Shivani S., Selin Priyadarshni C., M. Angelin Ponrani presented “Smart Wearable Band for Women's Safety” at the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC 2026) in March 2026. DOI: 10.1109/ICAUC68182.2026.11441241.

19) R. Sadhana, S. Rajesh Kannan, M. Angelin Ponrani, P. Ezhilarasi contributed “Stereo-Edge Computation for Autonomous Driving Through Enhanced Environmental Analysis” to the International Conference on Machine Learning, IoT and Big Data 2025 in August 2025.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1.	IEEE Award  <i>PIC: EVENT PHOTO</i>	Hearty congratulations to the Our department IEEE Student branch for receiving SAC Student branch award 2025-Gold & Professional Achievement award. Award was received by SB advisor Mr.Sreekanth, it was awarded by Dr.V.Kamakoti, Director, IIT Madras

2.

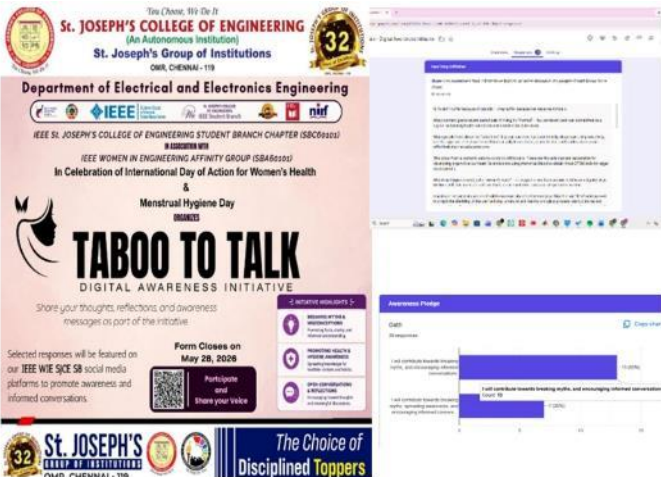
IEEE activities



PIC: EVENT PHOTO

The IEEE Power Electronics Society and St. Joseph's College of Engineering Student Branch Chapter (SBC60101) In association with IEEE Power Electronics Society Student Branch Chapter (SBC60101C) Organized A Power Electronics Based Fault Analysis Event on 30 April 2026. designed to provide participants with Practical exposure to fault analysis in power electronics systems, Enhanced analytical and problem-solving skills, Interactive learning through real-world fault scenarios

Over 30 participants engaged in technical challenges and fault analysis activities. The event strengthened technical knowledge, critical thinking, and understanding of power electronics applications.

3.	IEEE activities  <i>PIC: EVENT POSTER & PHOTO</i>	IEEE Women in Engineering Affinity Group St. Joseph's College of Engineering Student Branch Chapter (SBC60101) In association with IEEE WIE Affinity Group SJCE SB (SBA60101) Organized Taboo to Talk in observance with International Day of Action for Women's Health & Menstrual Hygiene Day on May 28 Aimed at Breaking myths and misconceptions, Promoting health and hygiene awareness, Open conversations and reflections, Selected responses will be featured on IEEE WIE SJCE SB social media platforms.
4.	IEEE activities	The IEEE Women in Engineering (WiE) Affinity Group, SJCE Student Branch (SBA60101), organized a webinar titled "Power Without Pressure" on May 23, 2026, to promote awareness of women's health and well-being. The session was delivered by Dr. Darshna Thakker, Director of Sarjan Health Care and Senior Gynecologist, who spoke on "Understanding Women's Health Beyond Myths and Misconceptions." She highlighted important aspects of menstrual hygiene, healthy lifestyle practices, emotional wellness, and informed healthcare decisions. The webinar addressed common misconceptions surrounding women's health and encouraged participants to prioritize both physical and mental well-being. Students actively engaged in the interactive session by raising questions on menstrual health, stress management, hygiene, and other health concerns, making the event informative, relatable, and impactful. The program concluded with a lively interaction session and a vote of thanks,

	 PIC: EVENT POSTER & PHOTO	with participants appreciating the initiative for fostering open and meaningful discussions on women's health.
5.	CLUB Activities	Placement training session was organized by Electric Kernel Club titled <i>"Engineering Excellence: Alumni Perspective from data patterns"</i> on 02.05.2026 from 6:00 PM to 7:00 PM. The session was delivered by Sanjay Selvan A M (2020–2024 batch), System Engineer at Data patterns (India) Ltd. Chennai. It was organized exclusively for 3rd year EEE students to provide industry exposure and career guidance. The speaker shared insights on company operations and recruitment processes. Students gained valuable knowledge on career opportunities and required skill sets in the industry. The session was highly informative and motivated students to prepare for future career prospects.

	 <i>PIC: EVENT POSTER</i>	
6.	Industry Institute Interaction	• Dr V Krishnakumar and Mr T Sri Ananda Ganesh Successfully completed CEEE - INAE PROGRAM at IIT MADRAS • Dr. T. Babu, Dr. C. Venkatesh Kumar & Mr. S. S. Harish from our department visited the Siemens company on 14.5.2026 for MoUs, Internships, Inplant Trainings & Placements for EEE Students
7.	PLACEMENT DETAILS FOR THE MONTH OF MAY 2026	2022-2026 Batch No of students placed = 126 Students Total No of Offers = 194 Offers

		Total No of Students (UG) = 171 Total No of Students Sports Causals (UG) = 01 Total No of Eligible Students (UG) = 147 (All Clear) % of students Placed (UG) = $126/171 = 74.12\%$ No of students having single offers = 74 No of students having Double offers = 41 No of students having Triple offers = 6 No of students having 4 offers =5
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DEPARTMENT OF SCIENCE

Sl.No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	1. Dr. P. Saravanan received association life membership from “Indian Society and Technology Association – Elavenil”, on 26-05-26.
2	Industrial Visits, Inplant Training, Internships	1. Dr. P. Saravanan, Ms. S. Savitha had received Centre for Engineering Education Excellence Program (CEEE) certification 25-26 from IIT Kharagpur on 14-05-2026. 2. Dr. P. Krishnan, Dr. K. Dhanaraj, Dr. A. Dhivya had received Centre for Engineering, IIT Delhi on 14-05-2026. 3. Dr. S. Suresh , Dr. A. Arulmozhi , Dr. V. Swarnalatha , Dr. A. Mahalakshmi , Dr. A. Uma Devi , Dr. J. Sharmila, Dr. N. Punitha , Dr. S. M. Prakash , Dr. C. Chandrasatheesh had received Centre for Engineering, IIT Kanpur on 14-05-2026. 4. Dr. S. Kiruba, Dr. N. R. Rajagopalan, Dr. B. Subash, Dr. K. Jayamoorthy, Dr. S. Manikandan, Dr. S. Rama, Dr. G. Sasikumar had received Centre for Engineering, IIT Chennaion 14-05-2026.
3	Awards/Prize won by students / Staff	Students Achievement 1. Ms. Poojasree V – I AML, Mr. Deependar Ponsingh – I AML, Ms. B V Berjisha – I ECE, Ms. S. Bhuvaneswari – I ECE, Ms. Harini Karthikeyan – I ECE, Ms. Lakshyaa S – I EEE, Ms. Keerthana M – I Cyber Security, Ms. Nisha M - I Cyber Security had secured Gold & 1% Toppers certifications in the NPTEL exams Jan-May 2026.

		2. Mr. Navashen Nayan C - I Cyber Security had secured Gold & 2 % Toppers certifications in the NPTEL exams Jan- May 2026. 3. Mr. Vetrivel G - I ADS had secured Gold certifications in the NPTEL exams Jan- May 2026. 4. Ms. Dhaanushri M S – I ECE had secured Silver & 1% Toppers certifications in the NPTEL exams Jan- May 2026. 5. Arul Mercy Beaula Y – I ECE, Francy Valencia A – I ECE, Girish R M – I ECE 6. Mohamed Rakshan S – I ECE, Ms. Aparna Anil Kumar – I EEE, Ms. Nivethasree P – I Cyber Security, Mr. Praveen Kumar G – I Cyber Security, Ms. Joshna E N - I M.Tech CSE, Ms. Maria K Paul – I M.Tech CSE , had secured Silver & 5% Toppers certifications in the NPTEL exams Jan- May 2026. Staff Achievement 1. Dr. N.R. Rajagopalan had secured Gold & 1% Toppers & 100/100 scorer certifications in the NPTEL exams Jan- May 2026. 2. Dr. T.L. Ajeesha, Dr. A. Dhivya had secured Gold & 2% Toppers certifications in the PTEL exams Jan- May 2026. 3. Dr. S. Manikandan had secured Silver & 5% Toppers certifications in the NPTEL exams Jan- May 2026.
4	Publications(only published) details	Journal Publications:

		1. Dr. P. Saravanan published a review article titled “Emerging Ozone Generation Strategies: Mechanistic Insights and Application-Driven Developments ” in the Journal “RSC Advances”. Doi: https://doi.org/10.1039/D6RA01992G 2. Dr. P. Saravanan published a research article titled “Process Engineering Strategies for Enzyme- and Microbial-Based Food Waste Valorization Towards Circular Food Manufacturing ” in the journal “Journal of Food Process Engineering” Doi: https://doi.org/10.1111/jfpe.70525 3. Dr. N. Punitha published a research article titled “Influence of Biosilica Reinforcement on Load-Bearing, Wear, and TimeDependent Behaviour of PLA Nanocomposites Fabricated via Fused Deposition Modelling” in the journal “Composite Materials”. Doi: https://doi.org/10.1177/00219983261445679 4. Dr. N. Punitha published a research article titled “Piper betle L Bioactives in Breast Cancer: Mechanisms and Therapeutic Prospects” in the journal “Pharmacological Research – Natural Products” Doi: https://doi.org/10.1016/j.prenap.2026.100764 5. Dr. P. Krishnan published a research article titled “Anticorrosion Studies of N-cyclohexylacrylamide Based Hydrogels” in the journal “Journal of the Indian Chemical Society”.
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		Doi: 10.1016/j.jics.2026.102656 6. Dr. K. Dhanaraj published a research article titled “Synergistic Cytotoxic and Antibacterial Effects of Erbium (Er³⁺) and Dysprosium (Dy³⁺) Doped CaCO₃/PEG Nanocomposites” in the journal “Bio nano science” Doi: https://doi.org/ 10.1007/s12668-026-02619-0 <i>Patent Publication</i> 1. Dr. P. Saravanan published a patent titled “NADES-Enzymatic Co-Extraction of CNC and Anthocyanins from Jackfruit Peel Waste for pH-Responsive Seed Starch Multilayer Edible Fibre ” - in the “Patent Office Journal 20/2026” – Application Number 202641057291A, dt 15.05.26. 2. Dr. A. Uma Devi published a patent titled “Eco bot a sustainable technological innovation for forest conservation and climate protection ” - in the “Patent Office Journal 20/2026” – Application Number 202641054565 A, dt 15.05.26. 3. Dr. S. Suresh published a patent titled “Adaptive interference reduction system for cognitive radio networks using cooperative spectrum sensing, interference prediction and dynamic transmission control ” - in the “Patent Office Journal 22/2026” – Application Number 202641063945 A, dt 29.05.26.
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