

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, CHENNAI - 119



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



















TOP NEWS

- **✓ PROFESSIONAL CHAPTER ACTIVITY**
- **CLUB ACTIVITY**
- **✓ GUEST LECTURE**
- INDUSTRIAL VISIT
- **⋈** NGO VISIT
- MOU MOU
- **✓** INDUSTRY INTERACTION
- **✓ TNSCST SPONSORED WORKSHOP**
- **✓** SEERA
- FACULTY ACHIEVEMENTS

NEXTGEN NEWS
JULY 2025



St. JOSEPH'S







PROFESSIONAL CHAPTER ACTIVITY - THE INSTITUTION OF ENGINEERS (INDIA)

The Department of Computer Science and Engineering in association with The Institution of Engineers (India) [IEI] student chapter conducted Seminar on "Quantum Computing" for III Year & IV Year IE(I) Members on 04th July 2025. The primary objective of conducting the seminar on Quantum Computing for III- Year and IV-Year IE(I) students is to introduce them to one of the most transformative and emerging fields in modern computing. The session aims to bridge the knowledge gap between classical computing and quantum computing by providing a foundational understanding of key quantum principles such as superposition, entanglement, and quantum gates. It is designed to help students recognize the potential applications of quantum technologies in fields such as cryptography, artificial intelligence, optimization, and drug discovery. By exposing students to real-world tools and platforms like IBM Quantum Experience or Qiskit, the seminar encourages them to explore hands-on experimentation and inspires interest in advanced research or careers in quantum computing and related disciplines.







Resource Person

Dr. L. Kavisankar, Associate Professor
Department of Computing Technologies,
SRM IST Kattankualthur campus, Chennai, Tamil Nadu, India
Aol: Cyber Security, IOT, Post quantum cryptography

PROFESSIONAL CHAPTER ACTIVITY - COMPUTER SOCIETY OF INDIA (CSI)

The Department of Computer Science and Engineering in association with the Computer Society of India – Kancheepuram (CSI-KPM) Chapter successfully organized its 4th Chapter Level Award Ceremony on 9th July 2025 at St. Joseph's College of Engineering, Semmancheri. The event witnessed an enthusiastic participation from faculty, students, and CSI members from various institutions. The newly elected Office Bearers of the CSI-KPM Chapter officially took charge during the event. The ceremony was graced by the Chief Guest, Mr. Malaya Rout, Director, Exafluence, Chennai, and the Guest of Honour, Dr. B. Chidhambararajan, Director, SRM Valliammai Engineering College and Founder Chairman of the CSI Kancheepuram Chapter. It was a moment of pride and recognition for our institution, as we received multiple accolades during the ceremony:

- Young Researcher Award Mrs. K. Jaspin
- Best Participant Award (Staff) Mrs. K. Sherin









PROFESSIONAL CHAPTER ACTIVITY - COMPUTER SOCIETY OF INDIA (CSI)

The Department of Computer Science and Engineering in association with IEEE Student Branch (STB16181) & ED Cell, in association with IEEE Region 10 AdHoc Committee on Entrepreneurship and Innovation, organized the 'Startup Simulation Sprint' event on 16th July at Technology AV Hall-1, from 1:30 PM to 3:00 PM IST. The event witnessed enthusiastic participation from students belonging to the Entrepreneurship Development Cell (EDC) and IEEE Student Members. Through their active involvement, students gained practical exposure to the startup ecosystem. The simulation sprint provided a platform for them to work collaboratively, ideate, and present innovative solutions. This not only enriched their entrepreneurial mindset but also strengthened their leadership and communication skills. The event witnessed enthusiastic participation from students belonging to the Entrepreneurship Development Cell (EDC) and IEEE Student Members. Through their active involvement, students gained practical exposure to the startup ecosystem.







PROFESSIONAL CHAPTER ACTIVITY - IOT SOCIETY OF INDIA

The Department of Computer Science and Engineering in association with IoT Society of India at St. Joseph's Institute of Technology organized a one-day interactive workshop titled "The Connected World an Interactive IoT Workshop" on July 30, 2025, in collaboration with the IoT Society of India Professional Chapter. The workshop aimed to provide students and faculty with practical insights into the rapidly evolving world of the Internet of Things (IoT). Mr. Manyam Jaswanth, Research Assistant, was invited as the guest speaker for the session. He shared his expertise in IoT technologies, real-world applications, and emerging trends. His engaging delivery and hands-on approach made the session highly informative and interactive.









CLUB ACTIVITY - MACHINE LEARNING CLUB

The Department of Computer Science and Engineering in association with Machine Learning club organized a dynamic and engaging activity titled "Basics of Machine Learning" On 28th July 2025. The primary objective of the event was to provide club members with a Strong foundation in Machine Learning. The event commenced with an insightful introduction to Machine Learning. Participants were given a comprehensive overview of the fundamentals, emphasizing the importance of understanding the concepts in Machine Learning. This event was a resounding success, providing participants with a hands-on experience that bridged theoretical knowledge with practical application. The event not only enhanced the participants' understanding of fundamental machine learning concepts such as supervised, unsupervised, and reinforcement learning but also promoted collaboration and critical thinking within the Machine Learning Club.









CLUB ACTIVITY – TECHNO HUB CLUB

The Department of Computer Science and Engineering in association with techno hub club organized a dynamic and engaging activity titled "Master the Essentials of Data Science" On 28th July 2025. The event was conducted for the II- and III-year members of TechnoHub. Dr. Dr. P. Selvaraj, Associate Professor, Department of Computing Technologies, SRM Institute of Science and Technology, Kattankulathur, shared his expertise on fundamental concepts and practical applications of data science, covering essential tools, techniques, and industry use cases. The session was interactive, with participants engaging in discussions and gaining valuable insights into emerging trends in the field. The event enhanced participants' understanding of core data science concepts and encouraged them to explore advanced topics for academic and career growth.



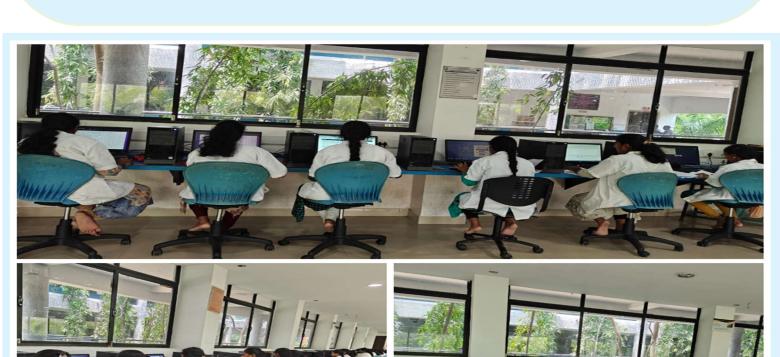






CLUB ACTIVITY – WOMEN'S CODING CLUB

The Department of Computer Science and Engineering in association with Women's Coding Club organized a CODE DIVA – Crack the Code On 31th July 2025. The main of the event to empower and encourage women students to develop their problem-solving and coding skills through a competitive yet supportive environment, focusing on the programming languages C and Python. The competition aims to promote gender diversity in tech and boost confidence in technical capabilities among aspiring women coders. By tackling real coding challenges, participants sharpen their logical thinking and problem-solving abilities. Beyond technical growth, the event fosters a supportive environment that helps boost confidence, particularly for those who may feel underrepresented in the tech industry. It encourages healthy competition while promoting collaboration and networking among like-minded peers, CODE DIVA plays a role in empowering women to take active roles in STEM fields, contributing to greater gender diversity and inclusion in the tech community.



GUEST LECTURE – THE POWER WITHIN

The Department of Computer Science and Engineering successfully conducted a Guest Lecture on "The Power Within: Preparing for a Future You Can't Predict". The session took place on 25th July 2025 in AV Hall 2 and was delivered by Mrs. Amutha Jeba Princy Ayyadurai, Group Technical Specialist, TCS Tech, Chennai. "The Power Within: Preparing for a Future You Can't Predict" teaches us that true security doesn't come from trying to control the future it comes from strengthening ourselves. In a world full of rapid change and uncertainty, the most valuable skill is not prediction, but preparation from within. This Event explores how individuals can cultivate inner strength, adaptability, and mental resilience to navigate uncertainty. In an unpredictable world marked by rapid change such as technological shifts, economic instability, or personal upheaval the key to survival and growth lies not in predicting the future, but in preparing internally.









GUEST LECTURE – DIGITAL IMAGE PROCESSING

The Department of Computer Science and Engineering successfully conducted a Guest Lecture on " digital image processing". The session took place on 28th July 2025 in AV Hall 2 and was delivered by Dr. M. Jagadeesh, Assistant Professor, Department of Computing Technologies, SRM Institute of Science and Technology. digital image processing is not just about manipulating images it's a powerful tool that bridges technology with real-world applications. From enhancing medical diagnostics to enabling intelligent machines and improving our daily smartphone experiences, DIP plays a critical role in modern technology. As we move forward in an image-driven digital world, mastering these techniques opens doors to exciting opportunities in AI, computer vision, robotics, healthcare, and more.









INDUSTRIAL VISIT — M.R. Krishnamurthy Co-operative Sugar Limited

The Department of Computer Science and Engineering successfully organized the industrial visit for IV Year CSE Students A, B & C Section to the Company of M.R. Krishnamurthy Cooperative Sugar Limited, Sethiathope on 23/07/2025. During the visit, we observed the manufacturing process, starting from the use of cane molasses as the raw material, fermentation, and distillation. The plant operates 300 days a year, producing 45 KL/day of rectified spirit and 40.8 KL/day of anhydrous alcohol. We also learned about the use of molecular sieve systems for alcohol purification. The plant utilizes power and steam supplied by its sister concern, M.R. Krishnamurthy Coop Sugars Mills Ltd, and meets its water requirement from wells inside the factory premises. As CSE students, we also explored the role of automation and control systems in maintaining the production efficiency and quality.







INDUSTRIAL VISIT – Eaton Power Quality Private Limited

The Department of Computer Science and Engineering successfully organized the industrial visit for III Year CSE Students B & D Section to the Company of Eaton Power Quality Private Limited, Pondicherry on 25/07/2025, by the Department of Computer Science and Engineering provide an opportunity for learning, exploration, or interaction, whether for educational, professional, or personal reasons. During the visit, we observed the manufacturing electrical sector's products include circuit process, breakers, switchgear, busway, UPS systems, power distribution units, panel boards, load centers, motor controls, meters, sensors, relays, PLCs, HMIs, and inverters. The main markets for the Electrical Americas and Electrical Rest of World segments are industrial, institutional, government, utility, commercial, residential, information technology and original equipment manufacturer customers.







INDUSTRIAL VISIT – RETECH LASERS

The Department of Computer Science and Engineering successfully organized the industrial visit to RETECH LASERS on 29th July 2025 and 31st July 2025 for the students of II CSE A, B, C, and D Sections. The objective of this visit was to provide students with exposure to industry-level applications of laser technology and its integration with computer-based systems. During the visit, students had the opportunity to observe various processes involving laser machinery, automation, and the role of computer programming in controlling and managing these systems. Experts from RETECH LASERS explained the functioning of laser cutting, engraving, and precision machinery, along with the software and control systems used in the operation. The visit provided valuable practical insights, bridging the gap between academic knowledge and industrial practice, especially in areas related to hardware-software integration, industrial automation, and real-time system control.







NGO VISIT – VARAM HEALTH CARE

The Department of Computer Science and Engineering successfully organized a social outreach program to Varam Health Care for aged peoples, Mamallapuram on 17-07-2025 for the students of III CSE A and C, including a visit to an old age home, where they extended support to the underprivileged by distributing essential items and food. These initiatives highlighted the department's dedication to community service and its strong commitment to social responsibility. The experience also helped students develop empathy and a deeper understanding of societal needs.







NGO VISIT – AMMA APPA OLD AGE HOME

The Department of Computer Science and Engineering successfully organized a social outreach program to Amma Appa Old Age Home, Lakshmi Nagar, Kundrathur, Chennai on 03-07-2025 for the students of IV CSE A and B, including a visit to an old age home, where they extended support to the underprivileged by distributing essential items and food. These initiatives highlighted the department's dedication to community service and its strong commitment to social responsibility. The experience also helped students develop empathy and a deeper understanding of societal needs.





NGO VISIT – KAIKODUPPOM CHARITABLE TRUST

The Department of Computer Science and Engineering successfully organized a social outreach program to Kaikoduppom Charitable Trust, Old Perungalathur, Chennai, on 24-07-2025 for the students of IV CSE C, including a visit to an old age home, where they extended support to the underprivileged by distributing essential items and food. These initiatives highlighted the department's dedication to community service and its strong commitment to social responsibility. The experience also helped students develop empathy and a deeper understanding of societal needs.







NGO VISIT – ANBHAGAM CSI HOME

The Department of Computer Science and Engineering successfully organized a social outreach program to Anbhagam CSI Home for the aged Adyar Chennai on 31-07-2025 for the students of III CSE B and D, including a visit to an old age home, where they extended support to the underprivileged by distributing essential items and food. These initiatives highlighted the department's dedication to community service and its strong commitment to social responsibility. The experience also helped students develop empathy and a deeper understanding of societal needs.







MOU – SEVENTH SENSE ROBOTICS

St. Joseph's Institute of Technology (SJIT), Chennai, signed a Memorandum of Understanding (MoU) with Seventh Sense Robotics on 16th July 2025, marking a strategic collaboration to foster innovation and practical learning in advanced technologies. This partnership aims to enhance student exposure and hands-on experience in areas such as IoT, Robotics, Automation, Raspberry Pi applications, and Additive Manufacturing. Through this MoU, an Innovation Lab will be set up on the SJIT campus, fully equipped with 3D printers, robotics platforms, and drone systems. The lab will serve as a hub for applied learning, research, and skill development. The collaboration also includes mutual exchange of resources, faculty training programs, workshops, and joint academic engagements, empowering students with industry-relevant technical competencies. This partnership reflects the shared vision of both institutions to create a future where innovative technologies revolutionize industries and empower the next generation of engineering talent.



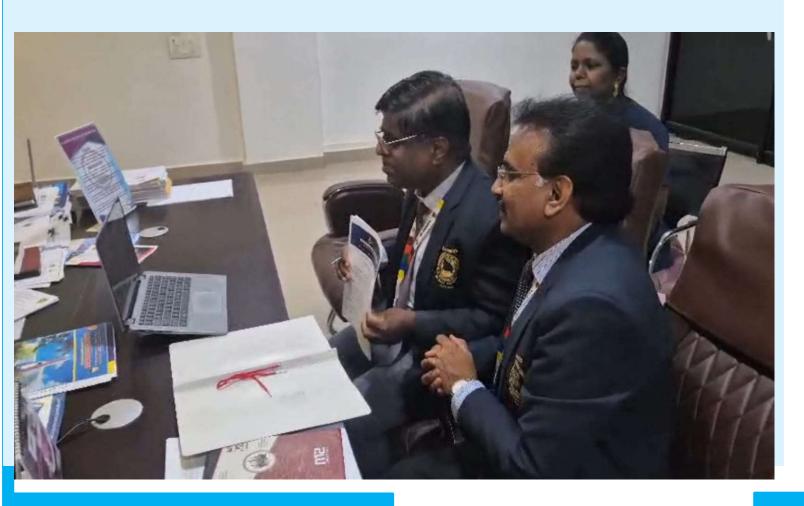
MOU - TECHNOVATION

St. Joseph's Institute of Technology (SJIT), Chennai, signed a Memorandum of Understanding (MoU) with Technovation on 16th July 2025, Tirunelveli, with a vision to build a mutually beneficial academic-industry relationship. This collaboration focuses on strengthening research, innovation, and entrepreneurship among students and faculty. Through this MoU, both institutions agree to engage in joint R&D projects, faculty development programs, and student internships. The partnership will also include technical workshops, ideation bootcamps, and collaborative project development in fields aligned with cutting-edge technologies and industrial applications. This initiative aims to bridge the gap between academic curriculum and industry expectations, while creating opportunities for students to engage in real-world problem-solving and innovation-driven learning. The MoU signifies a step forward in building a stronger, more connected ecosystem of education and technology.



MOU - SITER

St. Joseph's Institute of Technology (SJIT), Chennai, signed a Memorandum of Understanding (MoU) with SITER (Smart India Technology and Educational Research) Academy of Research and Training, marking the beginning of a collaborative partnership aimed at promoting research, training, and academic excellence on 18th July 2025education and technology. The signing ceremony was conducted via Zoom, with the MoU officially signed by Dr. S. Arivazhagan, Principal of St. Joseph's Institute of Technology, and witnessed by Dr. J. Dafni Rose (HoD – CSE) and Mrs. G. Smilarubavathy (Department of CSE). Representing SITER Academy, Dr. Saju Mohanan emphasized the importance of nurturing academic partnerships to drive innovation and research. This MoU paves the way for meaningful academic engagements, fostering a culture of knowledge exchange, skill enhancement, and global exposure for students and faculty.



19

INDUSTRY INTERACTION BY OUR FACULTIES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISIT TO AGRICULTURAL UNIVERSITY KRISHI VIGYAN KENDRA, TIRUR

Date: 21/07/2025 Faculty Coordinators:

1.Dr. L. Sai Ramesh, Professor – Computer Science

and Engineering

2.Mrs.Kalingarani G, Assistant Professor-

Computer Science and Engineering

Name of Students: Jayasadana M - III year Kaviraj - II year

- This visit is expected to lead to several key outcomes that align with the goals of advancing innovation in agriculture.
- One major objective is the joint submission of project proposals in collaboration with UK-based institutions, focusing on smart and sustainable farming techniques.



- During our visit, we had the opportunity to interact with experienced faculty members and gained valuable insights in agriculture.
- Dr. S. Banumathy, Ph.D., Programme Coordinator shared her expertise in Plant Breeding and Genetics. Dr. A. Punitha, Ph.D., Associate Professor – provided insights in Horticulture practices.
- Dr. V. A. Vijayshanthi, Ph.D., Associate Professor guided us on Host Plant Resistance and Integrated Pest Management

TNSCST SPONSORED WORKSHOP

The Department of Computer Science and Engineering successfully organized TNSCST sponsored Workshop "Empowering Women in Self-Help Groups through Training in Thread Bangles and Jhumka Making with Digital Marketing Skills".

Participants Overview

A total of 49 participants from outside attended this hands-on session, including:

- Women from 10 different Self-Help Groups (SHGs)
- Selected students from the SUEB Development Community College
- A total of 10 staff and students from St. Joseph's Group of Institutions

The workshop aimed to provide technical skills along with creative exposure to economically empower participants, especially women.







Student Employment Enhancement and Research Activities (SEERA)

As part of the SEERA Program, the Department of Computer Science and Engineering (CSE) organized an Events on 7th, 14th, 21th and 28th July for IV CSE Year Students.

The Events focused on areas:

- **✓** Technical Assessment (Strings in JAVA)
- ✓ Aptitude Training (Time, Speed and Distance)
- **✓** Technical Assessment (Problems on Multi-dimensional Array using C and JAVA)
- **☑** Technical Assessment (DDL & DML Commands in SQL)

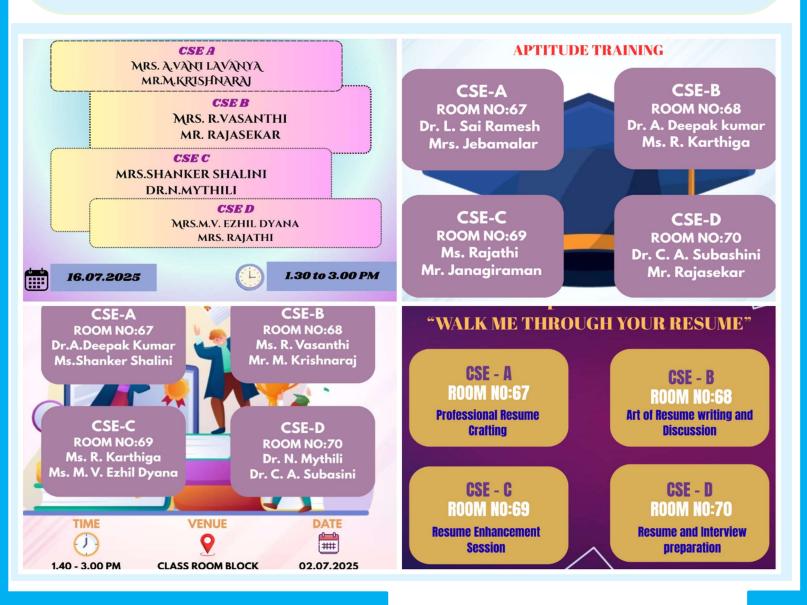


Student Employment Enhancement and Research Activities (SEERA)

As part of the SEERA Program, the Department of Computer Science and Engineering (CSE) organized an Events on 2nd, 9th, 16th and 30th July for III CSE Year Students.

The Events focused on areas:

- **✓** Aptitude Training (Time)
- **✓** Aptitude Training (Speed)
- **✓** Aptitude Training (Distance)
- **✓** Steps to answer "Walk Me through your Resume"



Student Employment Enhancement and Research Activities (SEERA)

As part of the SEERA Program, the Department of Computer Science and Engineering (CSE) organized an Events on 4th, 11th, 18th and 25th July for II CSE Year Students.

The Events focused on areas:

Skill Development Session on Communication

☑ Group Discussion

CSE-A

ROOM NO: 50

Mrs.S.M.Keerthana Dr.C.A.Subasini

CSE-C

ROOM NO: 52

Dr.V.Sabaresan Mrs.M.Sangeetha





CSE-B

ROOM NO: 51

Mrs.V.C.Ranganayaki Mrs.A.Kalingarani

CSE-D

ROOM NO: 53

Mrs.A.Smilarubavathy Mrs.C.Hema

TIME

() 01:40 - 03:00 PM

DATE

0 PM II.07.2025





1 40 - 3nm

VENUE

Classroom Block Room No: 50,51,52,53





GROUP DISCUSSION

CSE-A

ROOM NO: 50

Mrs.V.C.Ranganayaki Mrs.A.Kalingarani

CSE-C

ROOM NO: 52

Mrs.P.Hema Ms.E.Shanthi Nisha

CSE-B

ROOM NO: 51

Mrs.E.Ajitha Mrs.K.Sherin

CSE-D

ROOM NO: 53

Dr.V.Sabaresan Mrs.M.Sangeetha



Faculty Achievements - Faculty Development Program

- Mrs. E. Ajitha has attended 5 Days FDP on "Recent Advancement in Artificial Intelligence (AI) & ML" organized by St. Joseph's College of Engineering from 30-06-2025 to 04-07-2025.
- ☑ Dr. J. Dafni Rose has attended 5 Days FDP on "Research Empowerment through Technology" organized by KCG College of Technology from 01-07-2025 to 05-07-2025
- ☑ Dr. J. Dafni Rose has attended 6 Days ATAL FDP on "Multidisciplinary Applications of Artificial Intelligence, IOT, and Robotic Integration with Industry 5.0" organized by PERI Institute of Technology from 07-07-2025 to 12-07-2025.
- Mrs. K. Jaspin has attended 6 Days ATAL FDP on "Multidisciplinary Applications of Artificial Intelligence, IOT, and Robotic Integration with Industry 5.0" organized by PERI Institute of Technology from 07-07-2025 to 12-07-2025.
- Mrs. K. Sherin has attended 6 Days ATAL FDP on "Multidisciplinary Applications of Artificial Intelligence, IOT, and Robotic Integration with Industry 5.0" organized by PERI Institute of Technology from 07-07-2025 to 12-07-2025.
- ✓ Mrs. E. Ajitha has attended 6 Days ATAL FDP on "Multidisciplinary Applications of Artificial Intelligence, IOT, and Robotic Integration with Industry 5.0" organized by PERI Institute of Technology from 07-07-2025 to 12-07-2025.
- ✓ Mrs. S. Revathy has attended 6 Days ATAL FDP on "Multidisciplinary Applications of Artificial Intelligence, IOT, and Robotic Integration with Industry 5.0" organized by PERI Institute of Technology from 07-07-2025 to 12-07-2025.
- Mrs. S. Revathy has attended 5 Days FDP on "Recent Advancements in Artificial Intelligence (AI) & ML" organized by St. Joseph's College of Engineering from 30/06/2025 to 04/07/2025.

Faculty Achievements – Faculty Development Program

- ✓ Mrs. C. Rajathi has attended 5 Days FDP on "Disruptive Blocks: Navigating the Blockchain Era" organized by Satyabama Institute of Science and Technology from 01/07/2025 to 05/07/2025.
- Mrs.M.Jeba Malar has attended 5 Days FDP on "Generative AI with LLM" organized by National Institute of Technology from 07/07/2025 to 11/07/2025.
- ✓Mrs. G. Smilarubavathy has attended 5 Days FDP on "Disruptive Blocks: Navigating the Blockchain Era" organized by Satyabama Institute of Science and Technology from 01/07/2025 to 05/07/2025.
- ✓Mr. M. Krishnaraj has attended 5 Days FDP on "Disruptive Blocks: Navigating the Blockchain Era" organized by Satyabama Institute of Science and Technology from 01/07/2025 to 05/07/2025.
- ✓Mrs. G. Smilarubavathy has attended 6 Days FDP on "Accreditation, Ranking, and NEP: Strategies for Academic Excellence" organized by Jerusalem College of Engineering from 14/07/2025 to 19/07/2025.
- ✓Mr. M. Krishnaraj has attended 6 Days FDP on "AI Powered Image Processing: Techniques and Applications" organized by Indian Institute of Information Technology, Design and Manufacturing from 23/06/2025 to 28/06/2025.
- ☑Dr.D.Menaga has attended 6 Days FDP on "Cyber Physical Systems and Cyber Security" organized by Tagore Engineering College from 14/07/2025 to 19/07/2025.
- ✓Mrs. G. Smilarubavathy has attended 6 Days FDP on "Prompt Engineering and ChatGPT Utilization" organized by KKR & KSR Institute of Technology and Sciences from 14/07/2025 to 19/07/2025.

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