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MONTH : JAN YEAR : 2026

CSE DEPARTMENT NEWS LETTER JUL-DEC 2025

Jyothi Engineering College (AUTONOMOUS)

CREATING TECHNOLOGY LEADERS OF TOMORROW ESTD 2002

Accredited by NAAC (A Grade) and
Programmes Accredited by NBA (CE, CS, EC, EE, ME, MR)
Jyothi Hills, P. O. Vettikkattiri, Cheruthuruthy
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Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

A Centre of Excellence in Science and Technology by the Catholic Archdiocese of Trichur

CREATING TECHNOLOGY LEADERS OF TOMORROW

VISION

Creating competent and ethical leaders through quality education, innovation and excellence in academics and holistic development.

MISSION

To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programs with state of the art facilities.
To equip the students with allocable skills to become ethical value leaders, students and ignite their passion to realize academic excellence through research.
To participate in the development of society through knowledge transfer for social, technologied and economic help and industry interaction.

CORE VALUES

- Faith in God and man
- Love of fellow beings
- Ideals of Universal Citizenship
- Moral integrity
- Social commitment



About Department of Computer Science and Engineering

VISION

To be a global leader in Computer Science & Engineering education, nurturing ethical innovation and advanced technology for a sustainable and inclusive future.

MISSION

- Provide outcome-based industry relevant education that fosters innovation, critical thinking and skill development.
- Foster ethical values, integrity and social responsibility among future computing professionals.
- Promote emerging technologies and entrepreneurship to address evolving technological and societal challenges.
- Encourage holistic development, leadership, and global outlook through research and industry engagement.

PROGRAMME EDUCATIONAL OBJECTIVES

1. Graduates will apply strong foundations in mathematics, science, and computing to design innovative solutions to real-world problems.
2. Graduates will excel as professionals, researchers, or entrepreneurs equipped to adapt to technological advancements and pursue higher studies in related disciplines.
3. Graduates will demonstrate ethical leadership, effective communication, and teamwork in multidisciplinary and global environments.



PROGRAMME OUTCOMES (POs)

Students in the programme at the time of their graduation are expected to attain the following outcomes.

1. **Engineering Knowledge :** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop solutions to complex engineering problems.

2. **Problem Analysis :** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences with holistic considerations for sustainable development.

3. **Design/Development of Solutions :** Design creative solutions for complex engineering problems and design systems, components or processes to meet identified needs with appropriate consideration for public health and safety, whole-life cost, net zero carbon as well as resource, cultural, societal, and environmental considerations as required.

4. **Investigation :** Conduct investigations of complex engineering problems using research methods including research-based knowledge, design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

5. **Tool Usage :** Create, select and apply, and recognize limitations of appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering problems.

6. **The Engineer and the World :** When solving complex engineering problems, analyze and evaluate sustainable development impacts to society, the economy, sustainability, health and safety, legal frameworks, and the environment.

7. **Ethics :** Apply ethical principles and commit to professional ethics and norms of engineering practice and adhere to relevant national and international laws. Demonstrate an understanding of the need for diversity and inclusion.

8. **Individual and Collaborative Team Work :** Function effectively as an individual, and as a member or leader in diverse and inclusive teams and in multi-disciplinary, face-to-face, remote and distributed settings.

9. **Communication :** Communicate effectively and inclusively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, taking into account cultural, language, and learning differences.

10. **Project Management and Finance :** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

11. **Life-Long Learning :** Recognize the need for, and have the preparation and ability for:
    i. independent and life-long learning,
    ii. adaptability to new and emerging technologies, and
    iii. critical thinking in the broadest context of technological change.

THE ALGORITHMIC SCROLL

Federated Learning

Learning Together Without Sharing Data

Federated Learning is a decentralized machine learning approach where models are trained across multiple devices or servers holding local data samples, without exchanging them. Only model updates are shared, ensuring data privacy and security.



PRIVACY PRESERVED

COLLABORATIVE INTELLIGENCE

A SMARTER TOMORROW

"Data stays local. Intelligence goes global."

PROGRAMME SPECIFIC OBJECTIVES (PSOs)

Graduates of the programme will be able to:

1. Apply machine learning models, cloud computing architectures, algorithms, and analytical methods to solve complex computational problems.
2. Design and develop software systems and applications by applying modern engineering tools, cloud and IoT platforms, and AI/ML frameworks to address real-world computational and engineering challenges.
3. Model and design computing applications, employing automate tools to ensure quality, ethical practice, and sustainable societal impact.

Innovate Compute Create a Better Tomorrow

TECHNOLOGY | PEOPLE | IMPACT

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MAJOR ACTIVITIES

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Empowering Ideas Enriching Futures

AUGUST 2025

PLACEMENT TRAINING

Placement Training for S7 Students

22nd, 23rd & 25th August 2025

As part of the department's ongoing initiatives to strengthen the employability skills of final-year students, a Placement Training Program was organized for **S7 students on 22nd, 23rd, and 25th August 2025.** The sessions were designed to enhance aptitude, improve technical competencies, and prepare students for interviews, providing them with essential skills for success in campus recruitment. Additionally, the program highlighted the importance of soft skills and real-world problem-solving, ensuring a comprehensive approach to career readiness.



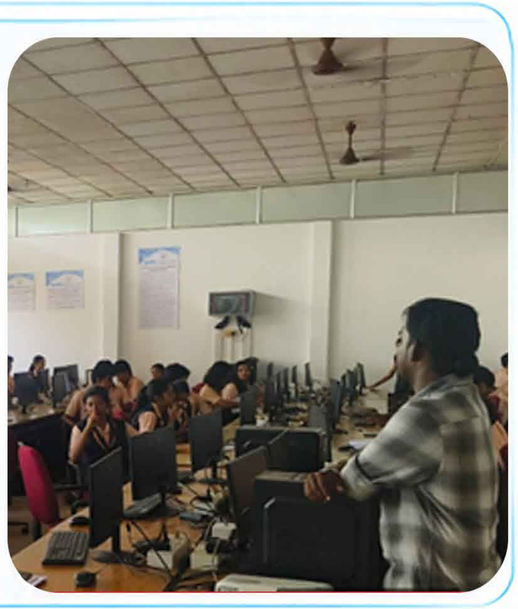
JUNE - JULY 2025

INTERNSHIP PROGRAM

Conducted a 30-hour Internship

23rd June to 1st July 2025

The Front-End Development internship was a 30-hour offline program conducted from **June 23rd to July 1st 2025.** It was organized by the department of CSE in association with CESA, and supported by **"Skill India and NSDC"**. The session provided students with valuable insights into emerging technologies and industry practices, bridging the gap between academic learning and real-world applications. It offered **hands**-on experience and expert guidance, helping students strengthen their technical proficiency and professional readiness for future career opportunities.



JULY 2025

CESA INAUGURATION

CESA Inauguration

28th July 2025

The Computer Engineering Students Association (CESA) inauguration ceremony for the academic year 2025-2026 was successfully organized at **Jyothi** Engineering College on **28th July 2025.** The event was attended by faculty, students, and members of CESA. The ceremony was inaugurated by **Amal Sebastian,** Software Development Engineer at Skillz Inc. and an alumnus of the 2018–2022 batch of our college. His session, titled **"Talk on the Ever-Evolving IT Landscape: Opportunities & Challenges,"** provided valuable insights into the rapidly changing IT field.



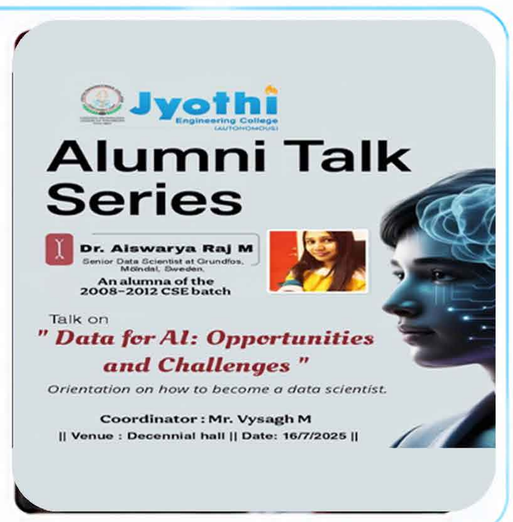
JULY 2025

ALUMNI TALK SERIES

Conducted Alumni Talk Series

16th July 2025

Conducted an Alumni talk series on **"Data for AI opportunities and challenges"** with the resource person, **Dr. Aiswarya Raj M (Senior Data Scientist),** an alumna of the **2008-2012 batch CSE,** held on 16/07/2025. The primary aim of this session was to inspire students by sharing insights into the rapidly evolving world of Artificial Intelligence (AI) and Data Science, focusing on the topic "Data for AI: Opportunities and Challenges." The event also included a career orientation segment to guide aspiring data scientists.



AUGUST 2025

ONAM CELEBRATION

Onam Celebration 2025

26th and 27th August 2025

The department organized a vibrant **Onam celebration** on the **26th and 27th August 2025,** bringing together students and faculty to cherish the spirit of this traditional festival. The celebration reflected the rich cultural heritage of Kerala and fostered a sense of unity and joy among participants.

A variety of engaging programs were conducted as part of the festivities. The events included a colorful Pookalam (floral carpet) competition, traditional attire contest, Thiruvathira and other cultural dance performances, fun games, and music programs.



THE ALGORITHMIC SCROLL

Generative AI

Creating Possibilities Beyond Imagination

Generative AI refers to a class of artificial intelligence models that can create new content such as text, images, code, audio, and videos by learning patterns from existing data. It uses deep learning techniques, especially large language models (LLMs), to generate human-like, creative, and contextually relevant outputs, enabling innovation across education, research, industry, and everyday life.

TEXT GENERATION

IMAGE GENERATION

CODE ASSISTANCE

CREATIVE SOLUTIONS

From Ideas to Reality with Generative AI."



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07 AUGUST 2025

CYBERSECURITY WORKSHOP

A one-day workshop on "Introduction to Cybersecurity"

A one-day workshop on **"Introduction to Cybersecurity"** was conducted on **7th August 2025** for S5 and S3 students, led by **Mr. KG Antony, Mr. Savio Sebastian, Mr. Ronald K.** The session offered valuable insights into the role of Artificial Intelligence in cybersecurity, career pathways, and the legal framework governing cyber activities in India.



08 AUGUST 2025

HANDS-ON WORKSHOP

Conducted Hands-on Workshop

Conducted Hands-on Cyber security workshop (Cybershield) for CSE students, the resource person as **Mr. Arjun V** (Alumnus 2010–2014) batch, cybersecurity researcher at CISAI on **8th August 2025.** Session started by building the basics, introducing students to networking fundamentals and explaining how the internet functions in a simplified yet precise manner. This session was particularly helpful for participants new to the subject, as it ensured everyone had the same baseline understanding.

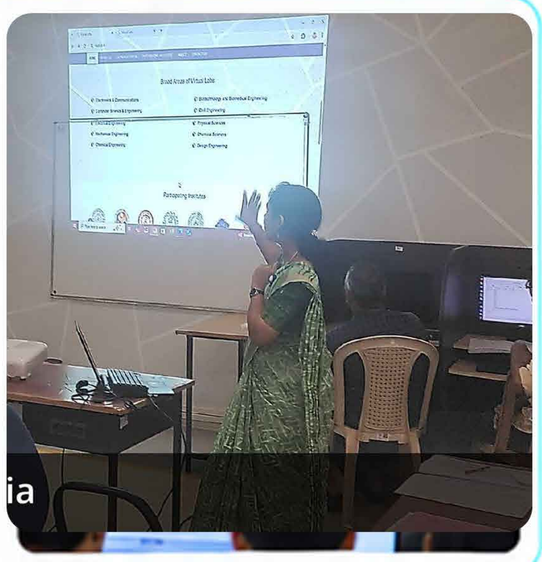


12 AUGUST 2025

VIRTUAL LAB WORKSHOP

Conducted a virtual Lab

Conducted a workshop on **"Data structures in C"** organized by Virtual Lab Nodal Center, Resource Person: **Ms. Neethu TV** (AP/CSE) on **12th August 2025.** The session started with a brief introduction about virtual labs and demonstrated different experiments which are available in virtual lab environment. Virtual labs training provides the basis for understanding several data structures and also algorithms that operate on them.



21 AUGUST 2025

EXPERT TALK

From Learners to Leaders

An Expert Talk titled **"From Learners to Leaders"** was delivered by **Mr. Muhammed Musthafa,** Solutions Architect, Dubai, on **August 21, 2025.** The session motivated students to develop leadership qualities and industry-relevant skills. The Gen AI Expert Talk proved to be an enlightening and inspiring experience. It not only deepened the participants' technical knowledge but also instilled a sense of direction and motivation to explore emerging technologies with responsibility and passion.

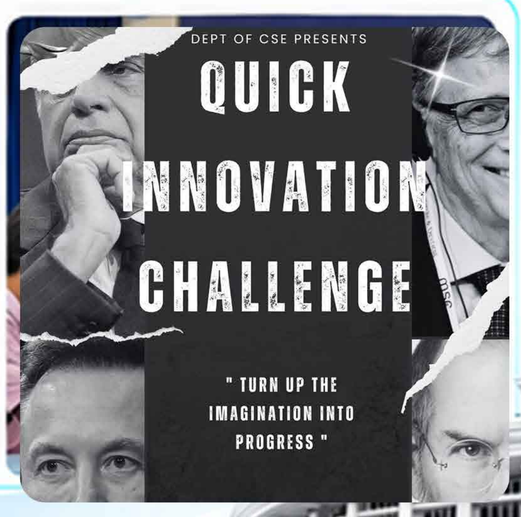


15 OCTOBER 2025

INNOVATION CHALLENGE

Quick innovation Challenge:
An Initiative for Disruptive Design & Problem Solving

As part of the **Innovation Day** celebrations on **October 15, 2025,** the Department of Computer Science & Engineering organized **"The Quick Innovation Challenge".** This high-energy event was designed to push the boundaries of student creativity, critical thinking, and rapid ideation.



THE ALGORITHMIC SCROLL

Generative AI
Computing Beyond Classical Limits

Quantum computing is an emerging technology that uses the principles of quantum mechanics – such as superposition and entanglement – to perform complex computations at speeds far beyond classical computers. It has the potential to solve problems in cryptography, drug discovery, optimization, artificial intelligence, and materials science that are currently intractable for traditional computers.

Key Potential Applications

Faster Problem Solving
Solves complex problems exponentially faster

Drug Discovery
Accelerates molecular simulations

Optimization
Improves logistics, finance and resource management

Cryptography
Revolutionizes data security and encryption

AI & Machine Learning
Enhances model training and data analysis

"From Possibilities to Reality with Quantum Computing"

Building Tomorrow Together

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NOVEMBER 2025

AICTE-ATAL FDP

Conducted AICTE-ATAL FDP

The department successfully conducted an AICTE Training and Learning (ATAL) Faculty Development Program (FDP) in November 2025. The FDP focused on emerging technologies and pedagogical innovations, providing a platform for faculty members to enhance their technical knowledge, share best practices, and explore future research directions.



10 – 12 DECEMBER 2025

INDUSTRIAL VISIT

Industrial Visit – S6 CSE C Students

The S6 CSE C batch students attended their Industrial Visit (IV) from 10th December 2025 to 12th December 2025, providing them with valuable exposure to real-world industrial environments and current technological practices.

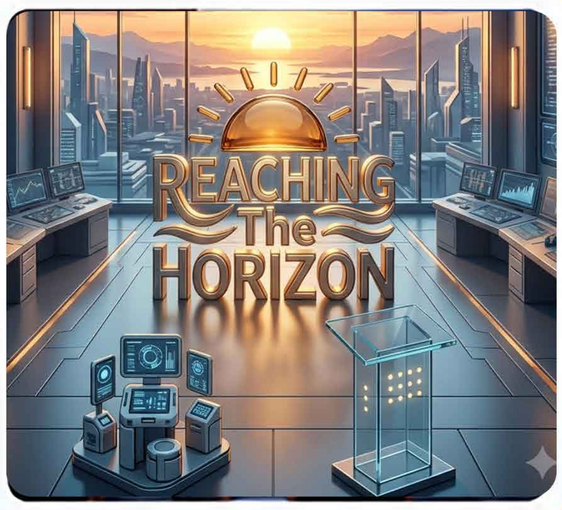


03 DECEMBER 2025

MOTIVATIONAL TALK

Motivational Talk on "Reaching The Horizon"

A motivational talk on "Reaching The Horizon" was conducted for **S6 students** on **3rd December 2025**, with **Mr. Harish V Babu** as the resource person. The session inspired students to set higher goals, develop a growth mindset, and prepare themselves for future opportunities.



16 DECEMBER 2025

CLOUD COMPUTING SESSION

Cloud learning hub - Launch of Student Portfolio in Cloud Computing

A session on "Cloud learning hub – Launch of student portfolio in cloud computing" was conducted on 16/12/2025. The resource person was **Mr. Vinay Babu Umesh** (Senior Engineer Manager, SRE, Dell Technologies, Bengaluru). He shared insights on the growing demand for cloud computing professionals, industry expectations, practical cloud portfolios, career pathways in Site Reliability Engineering (SRE) and cloud infrastructure. The session provided valuable industry exposure and motivated students to pursue certifications and hands-on cloud projects.

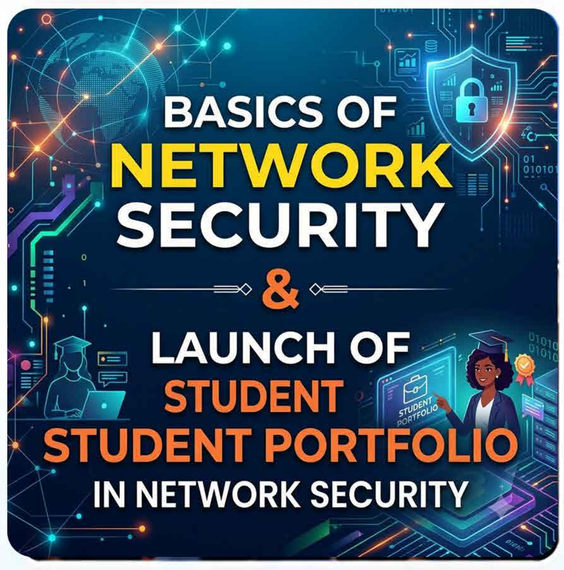


18 DECEMBER 2025

NETWORK SECURITY SESSION

Talk on "Basics of Network Security & Launch of Student Portfolio in Network Security"

A session on "Basics of Network Security & Launch of Student Portfolio in Network Security" was conducted on 18/12/2025. The chief guest was **Ms. Aparna Mohan** (Cyber Security Analyst, HCL Tech – Jyothi Alumna 2013–2017 Batch). The session introduced fundamental concepts of network security, real-world threats, and best practices, and also guided students on building their own portfolio in the field of network security.



THE ALGORITHMIC SCROLL

Edge Computing

Intelligence at the Edge

Edge computing is a distributed computing paradigm that processes data closer to the source of generation (at or near the 'edge' of the network) rather than relying on a central cloud server. It enables real-time data processing, reduces latency, conserves bandwidth, and enhances privacy and security.

Key Applications

Smart Manufacturing
Real-time monitoring and control

Autonomous Vehicles
Low-latency decision making

IoT Devices
Faster and efficient data processing

Healthcare
Real-time patient monitoring

Smart Cities
Intelligent infrastructure and surveillance

"From Ideas to Reality with Generative AI."

"Smarter Solutions Closer to You"

MAJOR ACTIVITIES

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01 - 05 DECEMBER 2025

SOFTWARE DEVELOPMENT WORKSHOP

5-Day Software Development Training Workshop

Conducted a 5 day Software Development Training workshop (G seven Technology) for **S6 students** on **1/12/25 – 5/12/25.**
Sessions were conducted on:

- Software Development Life Cycle (SDLC)
- Web and Mobile Application Development
- Artificial Intelligence and Data Science
- Career Guidance and Industry Expectations

The workshop provided hands-on activities, interactive discussions and valuable industry exposure. An internship opportunity was offered by G7 Technologies to the selected students.



19 DECEMBER 2025

CHRISTMAS CELEBRATION

Christmas Celebration 2025

The **Christmas Celebration** was held on **19th December 2025** with great joy and festive spirit. The event brought together students and faculty through carol singing, games, and cultural performances. The campus was beautifully decorated, creating a vibrant and cheerful atmosphere. The celebration fostered togetherness, joy, and the true spirit of Christmas.



23 JUNE - 01 JULY 2025

FRONT-END DEVELOPMENT INTERNSHIP

Front-End Development Internship

The Front-End Development internship was a 30-hour offline **program** conducted on **June 23rd to July 1st 2025.**
It was organized by the Department of CSE in association with CESA, and supported by **"Skill India and NSDC".**



02 - 08 JUNE 2025

FACULTY DEVELOPMENT PROGRAM

FDP on "Empowering Innovation Mastering R Programming and AI Development Strategies"

Organized an FDP on **"Empowering Innovation Mastering R Programming and AI Development Strategies"** on **2/6/25 – 8/6/25.**

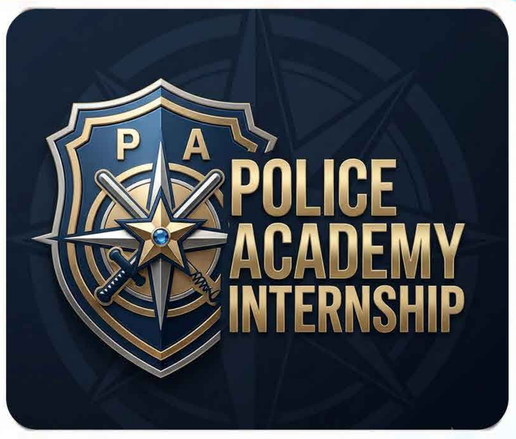


DECEMBER 2025

POLICE ACADEMY INTERNSHIP

Police Academy Internship

A 30-day cybersecurity internship was undertaken by 10 students of S6 CSE at the Kerala Police Academy (KEPA) during December 2025. The program aimed to bridge academic concepts with real-world law enforcement challenges in digital threat analysis, forensic investigation, and automated cyber defense. Under the mentorship of academy cyber technical officers and faculty guides, the students tools for investigative support.



10 NOVEMBER 2025

BOS MEETING

BOS Meeting

Board of Studies (BOS) meeting was conducted on **10/11/2025.**
The meeting discussed curriculum updates, academic initiatives, and industry-aligned enhancements to strengthen the program.



THE ALGORITHMIC SCROLL

Explainable AI (XAI)

Making AI Decisions Understandable

Explainable AI (XAI) refers to techniques and methods that help us understand and trust the decisions made by artificial intelligence models.
Unlike traditional AI, which often works like a "black box", XAI provides human-understandable reasons, visualizations, and justifications for predictions.

Why is XAI Important?

- **Builds Trust** In AI systems
- **Detects Bias** and unfair decisions
- **Helps in critical domains** like healthcare, finance, and law
- **Supports safer** and responsible AI deployment

Real-World Applications

- **Healthcare** Explaining disease predictions
- **Finance** Understanding credit decisions
- **Cybersecurity** Detecting malicious activities
- **Legal** Supporting transparent decision-making

"AI that explains, empowers a better tomorrow."

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FACULTY ACHIEVEMENTS

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Dr. P Sojan P Lal



- Participated in the 2-Week Online Winter Course on "National Capacity Building Program on Research and Publications", held from 8th to 19th December 2025, organized by the Indian Institute of Technology, Dharwad, Karnataka.
- Successfully published a text book by a leading publisher, Khanna Book Publishing Co. (P.) Ltd, New Delhi, titled "Industrial Safety and Maintenance (with Artificial Intelligence & Internet of Things)", which is AICTE-recommended. (2nd edition).

Dr. Jarin T



- Received certificate on "Innovation Ambassador (IA) training – Foundation Level" by MoE's Innovation Cell & AICTE.
- Received certificate on "Innovation Ambassador (IA) training – Advanced Level" by MoE's Innovation Cell & AICTE.
- Received certificate on "Innovation Ambassador (IA) training – Reskilling" by MoE's Innovation Cell & AICTE.
- Successfully completed an 8-week NPTEL certification course on "Managing Intellectual Property in Universities."
- Successfully completed a 4-week NPTEL certification course on "Accreditation and outcome based learning."
- Successfully completed an 8-week NPTEL certification course on "Intellectual Property disputes: Court practices and enforcement."

Dr. Sobha Xavier P



- Successfully completed Infosys Springboard Course on "Hands-on supervised machine learning with python".
- Served as a resource person for session 16: "Hands-on Analysis of medical images" held on 2nd August 2025 during the 3-day FDP on "Research Frontiers in AI/ML & DL" organized by CSE department MIT Kundapura.
- Participated in the 2-Week Online Winter Course on "National Capacity Building Program on Research and Publications", held from 8th to 19th December 2025, organized by the Indian Institute of Technology, Dharwad, Karnataka.

Dr. Saju P John



- Got 100% university result in S6 theory course – Compiler Design.

Ms. Riya Jacob



- Successfully completed several professional certification courses through Infosys Springboard, including:
  - Robotics Course
  - Hands-on supervised machine learning with python
  - Step by step machine learning with python
  - Deep learning with keras
- Additionally, completed a course on "Improve communication process using Gmail" from Coursera.
- Completed "Prompt engineering generative AI for marketing & Advertising" foundation certification.
- Completed Infosys Springboard Course on "Probability statistics using python".
- Completed Infosys Springboard Course on "TechA Machine Learning with python certification".
- Successfully completed a 4-week NPTEL certification course on "Design Thinking – A primer."
- Reviewer in the International Conference on Power Instrumentation Control and Computing held from 9th to 11th October 2025 at Government Engineering College Thrissur.
- Successfully completed a 12-week NPTEL certification course on "OBE and Accreditation."
- Successfully completed a 4-week NPTEL certification course on "Mobile Virtual Reality and Artificial Intelligence."
- Served as a session chair at the 4th International Virtual Multidisciplinary Conference on "From Gurukul to Global : Paving path to Vikasit Bharat @2047 : Restructuring higher education with Indic priorities" (From 27/12/25 to 28/12/25).

THE ALGORITHMIC SCROLL

Artificial Intelligence in Education

Smarter Learning Brighter Futures

Artificial Intelligence (AI) in education refers to the use of intelligent technologies to enhance teaching, personalize learning experiences, automate administrative tasks, and provide data-driven insights. It enables adaptive learning platforms, intelligent tutoring systems, automated assessment, and learning analytics — empowering both educators and learners for a more effective, inclusive, and future-ready education ecosystem.

Key Benefits

Personalized Learning
Adapts to individual needs

Improved Engagement
Interactive and adaptive content

Efficient Administration
Automates routine tasks

Data-Driven Insights
Helps educators make informed decisions

Inclusive Education
Supports diverse learning styles

"Empowering Learners for a Smarter Tomorrow"

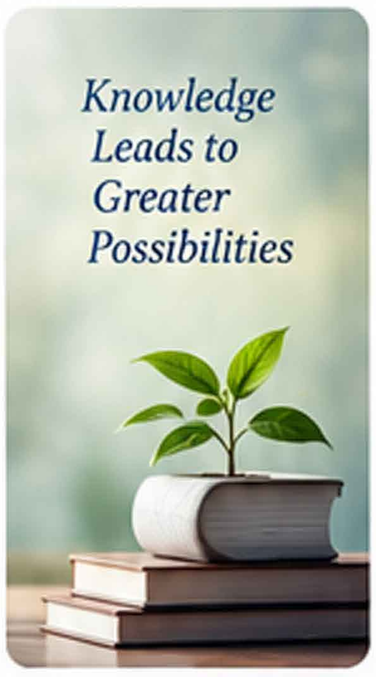
FACULTY ACHIEVEMENTS

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Ms. Aswathy Wilson



- Served as a **resource person** for session **"Laying the foundation for a skillful future"** held on **1st August** 2025 during the induction program for the first-year students, A confluence of learners, organized by Institute of Printing Technology and Govt. Polytechnic College, Shoranur.
- Successfully participated in the **Faculty Enablement Program (FEP)** on **"Natural Language Processing & Explainable AI,"** organized by the Department of AD, St. Joseph's College of Engineering and Technology, in association with TCS Corporate Relations, conducted from 19th to 23rd August.
- Successfully completed a **12-week NPTEL** certification course on **"Fundamentals of Artificial Intelligence."**.
- **Reviewer** for the International Conference on Emerging Trends in Signal Processing and Computational Intelligence (ICSPCI-2025), organized with IEEE Kerala Section, held from 3rd to 5th December 2025.



Ms. Sajitha I



- Successfully completed a **12-week NPTEL** certification course on **"OBE and Accreditation"**.
- Presented a research paper titled **"Evaluating Building Damage classification Accuracy: A benchmark study of Unet"** at IEEE International Conference on Next-Gen Technologies of Artificial Intelligence and Geoscience Remote Sensing held on 17th to 18th 2025 at KLH Aziz Nagar, Hyderabad, India.



Ms. Neethu T V



- Completed several professional certification courses, showcasing her commitment to continuous learning and skill enhancement in emerging technologies.
- Completed a course on **"Create your first program from UST"** from Coursera.
- Completed Infosys Springboard Course on **"Fine tuning large language model"**.
- Completed Infosys Springboard Course on **"Handson supervised machine learning with python"**.
- Completed Infosys Springboard Course on **"NLP with LLM's"**.
- Completed Infosys Springboard Course on **"Python clean coding"**.
- Completed Infosys Springboard Course on **"Step by step machine learning with python"**.
- Completed Infosys Springboard Course on **"Text embedded using large language models"**.
- Successfully participated in the **Faculty Enablement Program (FEP)** on **"Natural Language Processing & Explainable AI,"** organized by the Department of AD, St. Joseph's College of Engineering and Technology, in association with TCS Corporate Relations, conducted from 19th to 23rd August.
- Successfully completed a 12-week NPTEL certification course on **"OBE and Accreditation"**.



Ms. Athira K P



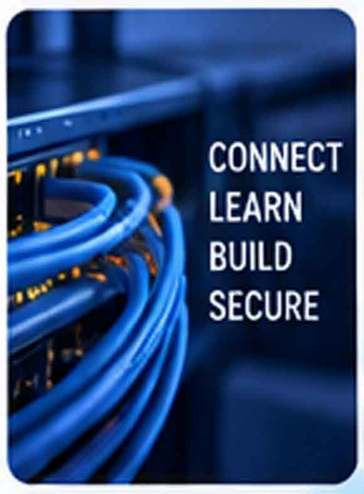
- Successfully completed several professional certification courses, demonstrating her commitment to continuous learning, professional development, and enhancing her skills in emerging technologies.
- Completed Infosys Springboard Course on **"Handson supervised machine learning with python"**.
- Completed Infosys Springboard Course on **"Step by step machine learning with python"**.
- Completed Infosys Springboard Course on **"Data Structures and algorithms"**.
- Completed Coursera Course on **"Generative AI for code completion"**.
- **Served as a Judge at IEEE Hackathon** held on 8th and 9th August.
- Participated in the 2-Week Online Winter Course on **"National Capacity Building Program on Research and Publications"**, held from 8th to 19th December 2025, organized by the Indian Institute of Technology, Dharwad, Karnataka.



Mr. Vysagh M



- Completed a course on **"CCNA: Switching routing and wireless essentials"** offered by Edcreate Foundation through the Cisco Networking Academy.
- Completed a course on **"CCNA: Enterprise networking security and automation"** offered by Edcreate Foundation through the Cisco Networking Academy.
- Completed a course on **"Introduction to network"** offered by Edcreate Foundation through the Cisco Networking Academy.
- **Got 100% university result in S6 theory course – Programming in Python.**
- **Earned a certification as an Entrepreneurship Educator,** demonstrating strong ability to train, inspire, and motivate innovation and entrepreneunship among higher education students.



THE ALGORITHMIC SCROLL

Generative AI

From Imagination to Innovation

Generative AI is transforming the way we create, learn and solve problems. By leveraging large language models (LLMs) and advanced algorithms, it enables the generation of text, images, code, audio and more, opening new possibilities across education, research, industry and everyday life. At CSE, we embrace Generative AI as a tool to empower creative thinking, responsible innovation and a brighter, smarter tomorrow.

Applications

- **Code Generation** — Faster development
- **Content Creation** — Text, images, audio, video
- **Data Augmentation** — Enhanced learning datasets
- **Research Assistance** — Summarization & insights
- **Automation** — Streamlined workflows
- **Personalized Learning** — Adaptive education

"Innovating Today for a Smarter Tomorrow"



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FACULTY ACHIEVEMENTS

INSPIRE | INNOVATE | COLLABORATE | EXCEL

Ms. Neeraja James



- Accepted a IEEE conference title **"An orangutan optimization based protopNet framework for reading error detection in Dyslexia students".**



Dr. Valento Alappat



- Completed Infosys Springboard Course on **"Handson supervised machine learning with python ".**
- Successfully completed a 12-week NPTEL certification course on **"Fundamentals of Artificial Intelligence."**



Ms. Jyothsna G K



- Completed an IEEE conference on **"Dual stream Siamese network with attention framework for multi model face recognition"** held on July 6th to 11th 2025.
- Completed Infosys Springboard Course on **"Basics of python ".**
- Completed Infosys Springboard Course on **"Handson supervised machine learning with python ".**
- **Got 100% university result in S6 theory course – Algorithm Analysis And Design.**
- Completed a 12-week NPTEL certification course on **"OBE and Accreditation".**



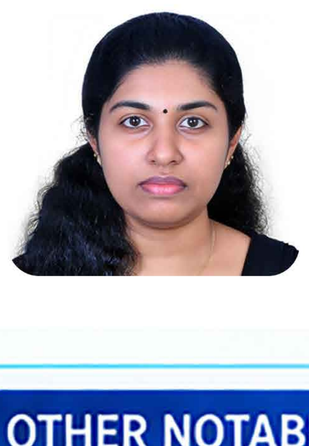
Mr. Arun K



- Completed Infosys Springboard Course on **"Handson supervised machine learning with python ".**
- **Got 100% university result in S6 theory course – Computer Graphics and image processing & Programming in Python.**

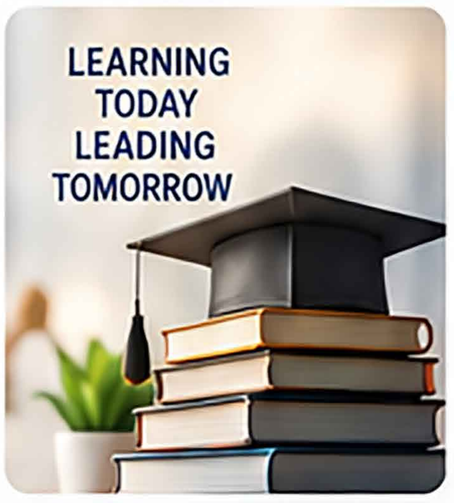


Ms. Aparna Mohan



Ms. Aparna Mohan successfully completed several certification courses that strengthened her knowledge in emerging technologies. She completed Infosys Springboard courses on:

- **"Handson supervised machine learning with python ".**
- **"Step by step machine learning with python ".**
- **"HTML5 and CSS3 Advanced Training ".**
- **"Artificial intelligence for AI ".**



OTHER NOTABLE ACHIEVEMENTS

RECOGNITION & CONTRIBUTION

- Faculty members continue to actively engage in research, professional development, certifications, conference participation, and academic excellence.
- These achievements reflect the department's commitment to continuous learning, innovation, and contribution to the academic and research community.
- We congratulate all our faculty members for their remarkable accomplishments and wish them continued success in their future endeavors.



THE ALGORITHMIC SCROLL

Generative AI

From Ideas to Impact

Generative AI refers to artificial intelligence models that can create new content such as text, images, code, audio, and videos by learning patterns from existing data. It leverages deep learning techniques, especially large language models (LLMs), to generate human-like, creative, and contextually relevant outputs, enabling innovation across education, research, industry, and everyday life.

Text Generation
Create, summarize and transform text

Image Generation
Turn ideas into visuals

Code Generation
Accelerate development

Audio Generation
Create realistic audio

Creative Solutions
Inspire innovation

"Innovating Today for a Smarter Tomorrow"



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FACULTY ACHIEVEMENTS

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Ms. Soniya Joseph



- Completed Coursera Course on **"Generative AI for code completion"**.
- Participated in the 2-Week Online Winter Course on **"National Capacity Building Program on Research and Publications"**, held from 8th to 19th December 2025, organized by the Indian Institute of Technology, Dharwad, Karnataka.



Mr. Dinto Davi T



- Completed the Infosys Springboard course on **"Entrepreneurship – Introduction to Business Model Canvas"**, gaining valuable insights into startup planning, innovation, and business model development.
- Received certificate on "Innovation Ambassador (IA) training **– Foundation Level"** by MoE's Innovation Cell & AICTE.
- Successfully completed a 4-week NPTEL certification course on **"Innovation by Design."**
- Successfully completed a 4-week NPTEL certification course on **"Patent Drafting for Beginners."**
- Successfully completed a course on CCNA: **"Enterprise Networking security and automation"** on 28th October.
- Successfully completed a course on CCNA: **"Introduction to Networks"** on 28th October.
- Successfully completed a certified **Google Startup Program**, enhancing knowledge of innovation and entreprenenuial thinking.
- Recognized as an **NPTEL Believer** for demonstrating commitment to continuous learning through NPTEL courses.
- **Served as Resource Person** for **"AI Awakening,"** an AI orientation program conducted for Grade 9 students, emphasizing foundational AI concepts and future career awareness on 23/12/2025.
- Attended RKVY RAFTAAR training program conducted by Kerala Agricultural University.



Sr. Dr. Mercy Joseph



- Served as a resource person for the 2-day workshop on "Artificial intelligence and **machine learning"** organized by the department of CSE & BCA in association with the coding club JDT Islam college of arts and science on 30th & 31st July.



Ms. Reedhu Saji



- Presented a paper titled **"Cyberattack detection using Hunter Prey Optimization Based ML classification Model"** in IEEE technically Sponsored third international conference on Next Generation Computing Systems on 21st and 22nd August.



Ms. Ninu Francis



- Successfully completed a **12-week NPTEL** certification course on **"OBE and Accreditation"**.



OTHER NOTABLE ACTIVITIES

TOGETHER TOWARDS EXCELLENCE

- Our faculty members continue to actively participate in conferences, workshops, certification programs and training initiatives, strengthening the department's culture of continuous learning and innovation.
- Their contributions in research, teaching, mentorship, and community outreach inspire our students and enhance the academic ecosystem.
- Congratulations to all our faculty members for their remarkable achievements and for being constant role models!



THE ALGORITHMIC SCROLL

Artificial Intelligence

Shaping a Smarter Tomorrow

Artificial Intelligence is not just a technology, but a catalyst for positive change. From research and education to industry and society, AI empowers us to solve complex problems, create innovative solutions, and build a more inclusive and sustainable future.

"Knowledge today, A better tomorrow"

The AI Impact

Smarter Learning
Personalized education

Greater Innovation
Faster research and discovery

Improved Decisions
Data-driven insights

Inclusive Growth
Opportunities for all

Sustainable Future
Technology for a better world

"Empowering Minds Through Intelligent Ideas"



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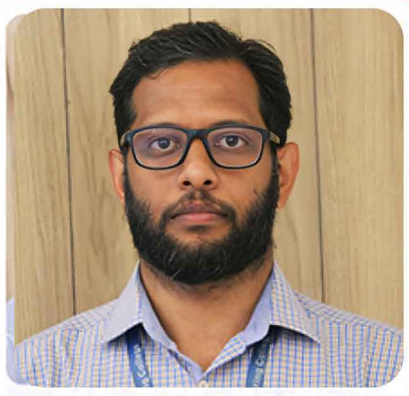
FACULTY ACHIEVEMENTS

INSPIRE | INNOVATE | COLLABORATE | EXCEL

Mr. Aneesh Chandran

CERTIFICATION ACHIEVEMENT

- Successfully completed a 8-week NPTEL certification course on **"Theory of Computation.**



Mr. ANEESH CHANDRAN
Assistant Professor

Patents Published

INNOVATION & INTELLECTUAL PROPERTY

- **Sr. Dr. Mercy Joseph, Ms. Riya Jacob, Ms. Aparna Mohan** – Publishing a patent on the topic **"Wearable therapeutic device".**
- **Dr. Shyjith M B** – Patent published on **"ARTIFICIAL INTELLIGENCE-BASED BUSINESS PORTFOLIO ANALYTICS DEVICE".**






Awards Received

AWARDS & RECOGNITION

- **Mr. KG Antony, Mr. Savio Sebastian, Mr. Ronald K S** – Attended a conference on "Introduction To Cyber Security" and got National Cyber Security Conference Winners 25.



RESEARCH • INNOVATION • ACHIEVEMENTS

IDEAS TODAY | SOLUTIONS TOMORROW

Faculty Achievements in NPTEL

Faculty members from the Department of Computer Science & Engineering who have achieved commendable results in the recent NPTEL examinations.



Mr. ANEESH CHANDRAN
Theory of Computation



Mr. DINTO DAVI T
Innovation by Design



Ms. RIYA JACOB
Design Thinking A primer

Faculty Contributions to Innovation



Sr. Dr. Mercy Joseph, Ms. Riya Jacob, Ms. Aparna Mohan
Published a patent on the topic **"Wearable therapeutic device".**



Dr. Shyjith M B
Patent published on "ARTIFICIAL INTELLIGENCE-BASED BUSINESS PORTFOLIO ANALYTICS DEVICE".

RESEARCH DISCOVER | **INNOVATION** DEVELOP | **COLLABORATION** CREATE | **IMPACT** TRANSFORM

FACULTY EXCELLENCE DRIVES A BRIGHTER TOMORROW

THE ALGORITHMIC SCROLL

Cybersecurity
Building a Safer Digital Tomorrow

Cybersecurity empowers individuals, organizations, and nations to protect digital assets, ensure privacy, and build trust in the connected world. With rising cyber challenges, it is essential to stay aware, adopt best practices, and innovate continuously for a secure and resilient future.

Key Takeaways

- **Enhanced Security** – Protects data and systems
- **Digital Awareness** – Builds safe online habits
- **Career Opportunities** – Growing demand across industries
- **Innovation & Research** – Drives advanced solutions
- **Safer Society** – Enables a trusted digital ecosystem

"A Secure Digital World Empowers Brighter Tomorrows"



CSE DEPARTMENT NEWSLETTER

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FACULTY PUBLICATIONS

RESEARCH | INNOVATION | KNOWLEDGE | IMPACT

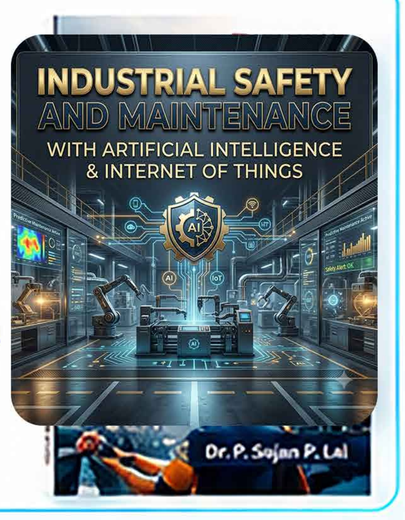
Ideas into Impact

Dr. P Sojan Lal



Dr. P Sojan Lal

Successfully published a text book by a leading publisher, Khanna Book Publishing Co. (P.) Ltd, New Delhi, titled **"Industrial Safety and Maintenance (withArtificial Intelligence & Internet of Things)"**, which is AICTE-recommended. (2nd edition).



Dr. Jarin T



Dr. Jarin T

- Published a SCI-indexed Conference paper titled **"Automated Prediction of Brain Tumor Recurrence using an adaptive sail fish-based Inception V3".**
- Published an article in an SCI-indexed journal titled **"Evaluation of a robust PID dead-time compensation controller based on the evolutionary computation method".**
- Published a SCI paper titled **"A biorefinery approach for multi-walled carbon nanotube enhanced used cooking oil methyl ester nanofluids in improved transformer insulation".**
- Published a Scopus journal paper on **"A hybrid stacked sparse autoencoder and light GBM framework for high performance intrusion detection IoT networks".**
- Published utility patent on 11/07/2025, title- **"A process of solid-state surface alloy coating on metal substrates".**
- Published an article in SCIE indexed journal titled **"Evaluation of a robust PID dead time compensation controller based on the evolutionary computation method".**
- Published a Scopus indexed conference paper titled **"U-Transformer Brain Tumor Recurrence Prediction Using Radiomic Feature Extraction".**
- Presented a paper titled **"Cyberattack detection using Hunter Prey Optimization Based ML classification Model"** in IEEE technically Sponsored third international conference on Next Generation Computing Systems on 21st and 22nd August.
- Published a conference paper indexed in Scopus titled **"A Tunicate optimization based InceptionV3 model for Brain Tumor Classification using MRI"** in 2025 4th International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS), (T. Kavitha, M. Sathya, N. C. Rani, J. T and J. E.), Ernakulam, India, 2025, pp.380-385. DOI: 10.1109/ACCESS65134.2025.11135812.
- Published a research article in an SCIE-indexed journal titled **"Enhancing power grid reliability and efficiency through deep learning based advanced state estimation."** in Journal of the Chinese Institute of Engineers, 1–20. (Sudhakar, T., Muniraj, R., D, N. S., Jose, J., T, J., & J, J. (2025)). DOI: https://doi.org/10.1080/02533839.2025.2548457
- Published a conference paper titled **"Metaheuristic-Tuned Type-2 Fuzzy PID Controller for BLDC Motor"** in 2025 International Conference on Next Generation Computing Systems (ICNGCS), Coimbatore, India, 2025, pp. 1-6, doi: 10.1109/ICNGCS64900.2025.11182754. (N. Salim, F. T. Josh, J. Jency Joseph and Jarin. T)
- Published a conference paper titled **"Cyberattack detection using hunter prey optimization based ML classification model"** in 2025 International Conference on Next Generation Computing Systems (ICNGCS), Coimbatore, India, 2025, pp. 1-6, doi: 10.1109/ICNGCS64900.2025.11182713. (R. Saji, Jarin. T, A. Asokan, J. E and D. V R)
- Published a Scopus indexed paper titled **"A review of mesoporous silica nanoparticles for targeted drug delivery, characterization and synthesis"** in Edelweiss Applied Science and Technology, 9(9), 1994–2006. https://doi.org/10.55214/2576-8484.v9i9.10283 (Mohan, S., Jarin, T., & Deepanraj, B. (2025).

"Research inday for a better tomorrow"



Research Benefits

- Generates New Knowledge
- Drives Innovation
- Enhances Academic Reputation
- Creates Opportunities for Students
- Addresses Real-World Challenges
- Builds a Sustainable Future

"Small Discoveries Make Big Changes"

KNOWLEDGE TODAY | INNOVATION TOMORROW



FACULTY PUBLICATIONS

IDEAS | RESEARCH | INNOVATION | IMPACT

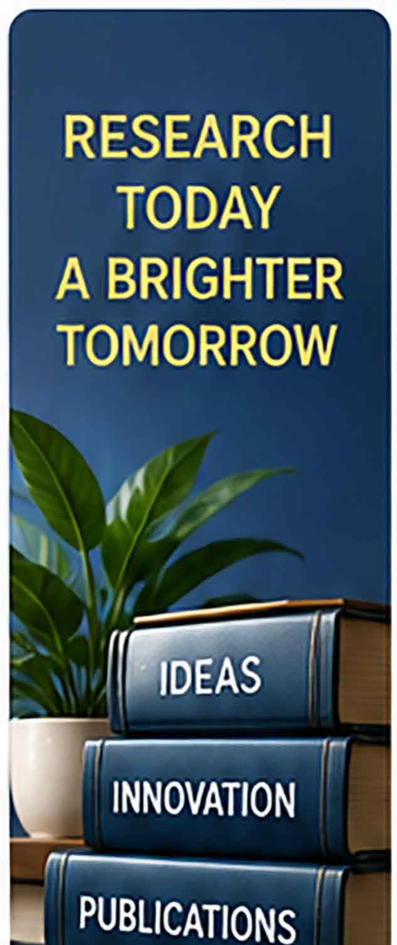
Dr. Jarin T



Dr. Jarin T
Assistant Professor

- Published a SCI-indexed conference paper titled "Automated Prediction of Brain Tumor Recurrence using an adaptive sail fish-based Inception V3".
- Published an article in an SCI-indexed journal titled "Evaluation of a robust PID dead-time compensation controller based on the evolutionary computation method".
- Published a SCI paper titled "A biorefinery approach for multi-walled carbon nanotube enhanced used cooking oil methyl ester nanofluids in improved transformer insulation".
- Published a Scopus journal paper on "A hybrid stacked sparse autoencoder and light GBM framework for high performance intrusion detection IoT networks".
- Published a utility patent on 11/07/2025, title – "A process of solid-state surface alloy coating on metal substrates".
- Published a Scopus indexed conference paper titled "U-Transformer Brain Tumor Recurrence Prediction Using Radiomic Feature Extraction".
- Presented a paper titled "Cyberattack detection using Hunter Prey Optimization Based ML classification Model" in IEEE technically Sponsored third international conference on Next Generation Computing Systems on 21st and 22nd August.
- Published a conference paper indexed in Scopus titled "A Tunicate optimization based InceptionV3 model for Brain Tumor Classification using MRI" (ACCESS, Ernakulam, 2025).
- Published a research article in an SCIE-indexed journal titled "Enhancing power grid reliability and efficiency through deep learning based advanced state estimation".
- Published a conference paper titled "Metaheuristic-Tuned Type-2 Fuzzy PID Controller for BLDC Motor" (ICNGCS, 2025).
- Published a Scopus indexed paper titled "A review of mesoporous silica nanoparticles for targeted drug delivery, characterization and synthesis".
- Published a conference paper titled "Anomaly Detection in Spacecraft Telemetry Using Vision Transformer and Caps-LSTM" (ACCTHPA, 2025).
- Published a research article in an SCI-indexed journal titled "Metaheuristic-optimized swin transformer with SHAP explainability for keratoconus classification from corneal topography maps" (Int Ophthalmol, 2025).
- Published a research article in an SCI-indexed journal titled "A DNA-based homomorphic encryption framework with optimized key selection for secure medical image storage in cloud systems".
- Published a conference paper titled "Improvement of Power Quality Using DVR Based Proportional Resonant Controller" (ICoEIT, 2025).
- Published a research article in an SCI-indexed journal titled "Facial emotion-based autism spectrum disorder identification using enhanced swin transformer and gannet optimization".
- Published a book chapter titled "Leveraging Business Intelligence to Explore AI-Driven Transformation in the VUCA and BANI World." (IGI Global, 2025).
- Published a Scopus-indexed conference paper titled "Dielectric Resonant Antenna Technology for Wireless Transfer in Electric Vehicles" (ICEGC 2025).
- Published a Scopus-indexed journal paper titled "Dual-Attention DeepLabv3+ with MobileNetV2 for efficient underwater object detection" (Int. J. Inf. Technol., 2025).
- Published a IEEE conference paper titled "Swin Transformer Based Attention with Scale Invariant Feature Transform for Copy Move Forgery Detection" (PICC, 2025).
- Published a research article in an SCI-indexed journal titled "Enhanced Water Body Segmentation Using Optimized DeepLabV3+ and YOLOv7 on High-Resolution Satellite Imagery".
- Published a IEEE conference paper titled "Experimental Analysis of Waste Cooking Oil in Transformer Insulation" (ITech SECOM, 2025).
- Published a IEEE conference paper titled "Analysis of Epoxy-Based Nano Composites Solid Dielectric Material for Transformer Insulation" (ITech SECOM, 2025).
- Published a IEEE conference paper titled "A Responsive Deep Q-Learning Framework for Sustainable Integrated Energy Systems" (ICICNIS, 2025).
- Published a IEEE conference paper titled "Home Energy Management System using Adaptive Giant Trevally Optimizer for Enhancing User Comfort" (ICICNIS, 2025).

A remarkable contribution to research and innovation!







Small Discoveries Make Big Changes

Ms. Ninu Francis



- Published a SCI-indexed Conference paper titled "Automated Prediction of Brain Tumor Recurrence using an adaptive sail fish-based Inception V3".



Dr. Valanto Alappat



- Published an SCIE-indexed journal article titled "Edge-Cloud Computing for IoT Data Analytics Using Optimized Progressive Graph Convolutional Networks."



Dr. Shyjith M B



- Published a IEEE conference paper titled "Home Energy Management System using Adaptive Giant Trevally Optimizer for Enhancing User Comfort" (ICICNIS, 2025).



Dr. Saju P John



- Presented a research paper at the IEEE International Conference on "Next-Gen Technologies of Artificial Intelligence and Geoscience Remote Sensing Society," held from 17th to 18th September 2025 at KLH Aziz Nagar Campus, Hyderabad, India.



Ms. Aparna Mohan



- Presented a research paper entitled "An Orangutan Optimization-Based ProtoPNet Framework for Reading Error Detection in Dyslexic Students" at the 2025 IEEE 2nd International Conference on Information Technology, held on 30th–31st August 2025 at Vemana Institute of Technology.
- Presented a paper in 4th International Virtual multidisciplinary conference on "From Gurukul to Global : Paving path to Vikasit Bharat @2047 : Restructuring higher education with Indic priorities" (From 27/12/25 to 28/12/25).



Ms. Sajitha I



- Presenting a research paper titled "Evaluating Building Damage classification Accuracy: A benchmark study of Unet" at IEEE International conference on Next-Gen Technologies of Artificial Intelligence and Geoscience Remote Sensing held on 17th to 18th 2025 at KLH Aziz Nagar, Hyderabad, India.



Ms. Neethu T V



- Presented a research paper titled "EEG Emotion classification using a hybrid CNN- BiGRU with Attention mechanism" in the International Conference on power instrumentation control and computing, held from 9th to 11th october 2025 at Government Engineering college Thrissur.





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FACULTY ACTIVITIES

PUBLICATIONS | WORKSHOPS | CONFERENCES | PROFESSIONAL DEVELOPMENT

Jyothi Engineering College AUTONOMOUS

LEARN
INNOVATE
COLLABORATE
TRANSFORM

Innovation through Knowledge

RECENT PUBLICATIONS



Ms. Sonia A Joseph

Presented the research paper titled **"Efficient Real-time Vehicle tracking using Yolov8 with frame skipping"** at the 2025 4th International Conference on Advances in Computing, Communication, Embedded and Secure Systems, hosted by Adi Shankara Institute of Engineering Technology, Kalady.



Ms. Riya Jacob

Presented a paper in the 4th International Virtual Multidisciplinary Conference on **"From Gurukul to Global : Paving path to Vikasit Bharat @2047 : Restructuring higher education with Indic priorities."** (From 27/12/25 to 28/12/25).

WORKSHOPS / CONFERENCES ATTENDED



Ms. Anumol C S

Completed NPTEL workshop certificate on **"Career Development: Grow your team"**.



Ms. Aswathy Wilson

Attended a conference workshop held in conjunction with the second IEEE international conference on **"New frontiers in communication, automation, management and security"**. Held on 10th July.



Ms. Jyothsna G K

Completed an IEEE conference on **"Dual stream Siamese network with attention framework for multi model face recognition"** held on July 6th to 11th 2025.



Mr. Dinto Davi

Completed a hands-on event on **Google for Startups "Gemini API Sprints"** in Bengaluru on Tuesday August 26.



Ms. Sonia A Joseph

Attended the **question paper setting workshop** on 21/11/25 and 22/11/25 at Kerala Institute of Local Administration, Thrissur.



Sr. Dr. Mercy Joseph

Successfully completed a 3 day workshop on **"Wearable Biomedical Devices for clinical Diagnosis"** conducted during 06/11/25 - 08/11/25 at IIITDM Kancheepuram, Chennai.



"Knowledge is the engine that drives innovation."

EMERGING AREAS IN COMPUTER SCIENCE

- Artificial Intelligence & Generative AI
- Cyber Security & Digital Forensics
- Cloud & Edge Computing
- Big Data Analytics
- Internet of Things (IoT)
- Robotics & Autonomous Systems
- Green & Sustainable Computing
- Quantum Computing
- Extended Reality (AR/VR)
- Embedded Systems & VLSI

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FACULTY DEVELOPMENT PROGRAMS

LEARN | UPGRADE | COLLABORATE | INNOVATE | EMPOWER

Continuous Learning for a Brighter Tomorrow

FDP's ATTENDED



Dr. Jarin T

- Completed FDP on **"Recent Advances in Electric and Hydrogen Fuel cell Mobility"**.



Dr. Sobha Xavier P

- Attended a five-days FDP on **"Big data Processing"** organized by St. Thomas college of engineering, Kannur held from June 16th to 20th 2025.
- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of technology, Kottayam from 18/08/2025 to 23/08/2025.
- Served as a resource person for session 16: **"Hands-on Analysis of medical images"** held on 2nd August 2025 during the 3-day FDP on "Research Frontiers in AI/ML & DL" organized by CSE department MIT Kundapura.
- Completed a 6-day ATAL FDP on **"Role of Artificial Intelligence and Machine Learning in smart Grids"** at Indian Institute of Information technology Patna.
- Completed a 6-day ATAL FDP on **"Future Intelligent Network Toward 6G:5G and beyond with Reconfigurable SDR and ML"** at National Institute of Technology Rourkela, from 24/11/2025 to 29/11/2025.



Dr. Shyjith M B

- Completed a six-day FDP/short term training program on **"Online Technology Talk Series"** from 2nd June to 7th June 2025.



Dr. Saju P John

- Completed a 5-day PDP on **"Course file preparation and question paper setting"** at NITTTR Extension Center Kalamassery.



Ms. Aswathy Wilson

- Completed a six-days FDP/short term training program on **"Online Technology Talk Series"** from 2nd June to 7th June 2025.
- Attended a three-days FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.



Ms. Sona Shaju K

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.
- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Ms. Jyothsna G K

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.
- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"AI-Powered Industry 4.0"** at Vivekananda Institute of Management Studies from 22/09/2025 to 27/09/2025.
- Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Ms. Neeraja James

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of technology, Kottayam from 18/08/2025 to 23/08/2025.



Ms. Neethu T V

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.
- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"Cyber Security & Applications"** at Vellore Institute of technology, Andra Pradesh from 01/09/2025 to 06/09/2025.
- Completed a 6-day ATAL FDP on **"Revolutionizing healthcare, the role of AI in Drug Development clinical trials and practice"** at Indian Institute of Information technology Allahabad, from 13/10/2025 to 18/10/2025.



Ms. Anumol C S

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.



- Emerging Technologies
- AI / Machine Learning
- Cloud & Edge Computing
- Cyber Security
- Data Science & Analytics
- Internet of Things (IoT)
- Research & Innovation
- Sustainable Technology
- Future Skills

"Invest in Knowledge the best interest always pays."



FACULTY EXCELLENCE | KNOWLEDGE SHARING | PROFESSIONAL GROWTH | ACADEMIC IMPACT

Jyothi Engineering College (Autonomous)
Department of Computer Science and Engineering
PEOPLE | TECHNOLOGY | INNOVATION | SOCIETY

FACULTY DEVELOPMENT PROGRAMS

LEARN | UPSKILL | COLLABORATE | GROW | EXCEL

Empowered Faculty Enriched Learning

FDP's ATTENDED (Continued)



Ms. Riya Jacob

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.
- Completed a 5-day FDP on **"Integrating IoT, AI/ML & Robotics for Industry 4.0 & Sustainable Smart Manufacturing"**.
- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.



Ms. Aparna Mohan

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"AI-Powered Industry 4.0"** at Vivekananda Institute of Management Studies from 22/09/2025 to 27/09/2025.



Ms. Sajitha I

- Attended a three-day FDP on **"Gen AI for Software product Development"** organized jointly by the HRDC of KTU and NeST Digital Academy held from June 3rd to 5th 2025.
- Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Dr. Valento Alappat

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.



Mr. Arun K

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.



Ms. Soniya Joseph

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 3-day FDP on **"AI tools in teaching and academic writing"** organized by Learnix Thrive from 28th August to 30th August 2025.
- Completed a 6-day ATAL FDP on **"AI-Powered Industry 4.0"** at Vivekananda Institute of Management Studies from 22/09/2025 to 27/09/2025.
- Completed a 6-day ATAL FDP on **"Future-Ready Educators: Harnessing Intelligent Computing Systems for Teaching and Research"** at Jain Deemed to be University Off Campus at Kochi from 01/12/2025 to 06/12/2025.



Ms. Sonia A Joseph

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"Secure and explainable generative AI for medical IoT data Analytics"** at National Institute of Technology Puducherry from 25/08/2025 to 30/08/2025.



Mr. Vysagh M

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.



Mr. Aneesh Chandran

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.



Ms. Athira K P

- Completed a 6-day ATAL FDP on **"Next gen AI training on models, methods and machines"** at Rajiv Gandhi Institute of Technology, Kottayam from 18/08/2025 to 23/08/2025.
- Completed a 6-day ATAL FDP on **"Recent Advances & Emerging Trends & Applications in Robotics and Automation"** at NITTE Meenakshi Institute of Technology, from 01/09/2025 to 06/09/2025.
- Completed a 6-day ATAL FDP on **"Future-Ready Educators: Harnessing Intelligent Computing Systems for Teaching and Research"** at Jain Deemed to be University Off Campus at Kochi from 01/12/2025 to 06/12/2025.



"Learning never exhausts the mind."
– Leonardo da Vinci

EMERGING LEARNING AREAS

- Artificial Intelligence & Generative AI
- Robotics & Automation
- Cloud & Edge Computing
- Cyber Security
- Data Science & Analytics
- Internet of Things (IoT)
- Quantum Computing
- EdTech & Future Learning
- Sustainable Technology



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FACULTY & STUDENT MILESTONES

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FDP's ATTENDED (Continued)



Mr. Dinto Davi T

Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Sr. Dr. Mercy Joseph

Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Ms. Sruthy K S

Completed a 6-day ATAL FDP on **"Retrieval Augmented Generation Meets Quantum Computing: Building the future of AI"** at Jyothi Engineering College, from 24/11/2025 to 29/11/2025.



Ms. Jyothi P Joy

Completed a 6-day ATAL FDP on **"Emerging Research Trends in Supercomputing, AI, and Data Science"** at Amity University Rajasthan from 24/12/2025 to 30/12/2025.

STUDENT ACHIEVEMENTS

Proud of Our Students

Mr. Rahul R Nair (CSE 2023–2027 batch) has been selected for the **EEE Summer School 2025** at Indian Institute of Science Bangalore from July 10th to 12th 2025.

Mr. K G Antony, Mr. Ronald and Mr. Savio Sebastian (CSE B batch) secured **third prize** in the national level hackathon X, jointly organized by the National Cyber Security Research Council and CUSAT, held on 4th July.

Mr. Abhijith M, Ms. Christeena Maria Raison, Ms. Aswathi T C, Mr. Campbel C Joseph (S7 CSE A batch) presented their conference paper titled "A Fully Supervised Framework for Lightweight Soiling Segmentation on Photovoltaic Panels using YOLOv8" in the Energy Transition Conclave-2025 organized by IEEE PES Kerala Chapter in collaboration with InSDES and KSEBOA held on 22nd August 2025 at Ernakulam. Guided by Ms. Sonia A Joseph and project coordinators are Ms. Aswathy Wilson & Dr. Shaijith.

Ms. Jilsy A J (M.Tech CSE) presented a conference paper titled **"Optimized Autoencoder for Intrusion Detection systems"** in the 8th International Conference held at SKIT, M&G Jaipur.

PLACEMENTS

Bright Careers Stronger Tomorrows

Name	Batch	Company
Mr. Ageto Sunny	S8	Federal Bank
Ms. Aleena Kuruvila	S8	Federal Bank
Ms. Annrose Watson	S8	Federal Bank
Mr. Vivek Vijayakumar	S8	Federal Bank
Mr. Simon Sandeep	S8	Federal Bank
Mr. Ageto Sunny	S8	South Indian Bank
Mr. Steephan T J	S8	South Indian Bank
Mr. Alfin Jose	S8	South Indian Bank
Mr. Mohammend Faisal	S8 CSE B	Cognizant
Mr. Yadhukrishnan K V	S8 CSE B	Cognizant

Name	Batch	Company
Alan Pullokaran Babu	S7 CSE B	Experion
Akshara P	S7 CSE A	INFOSYS
Aneena Andrews	S7 CSE A	INFOSYS
Christeena Mariya Raison	S7 CSE A	INFOSYS
Irine Maliamakkal Sarin	S7 CSE B	INFOSYS
Nandhana V J	S7 CSE B	INFOSYS
Thanuja K	S7 CSE B	INFOSYS
Vaishnav R	S7 CSE B	Hombill Labs Private Limited

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- Collaborate Boldly
- Innovate Always
- Make an Impact

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REPEAT

CSE
BUILDING
IDEAS
SHAPING
TOMORROW

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INTERNSHIP DETAILS

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From Campus to Career

INTERNSHIP CONDUCTED

Internship Conducted for S5 CSE A, B, C batch students on "Comprehensive internship training program for add on – **KGISL**, provide a practical knowledge and exposure to real world".

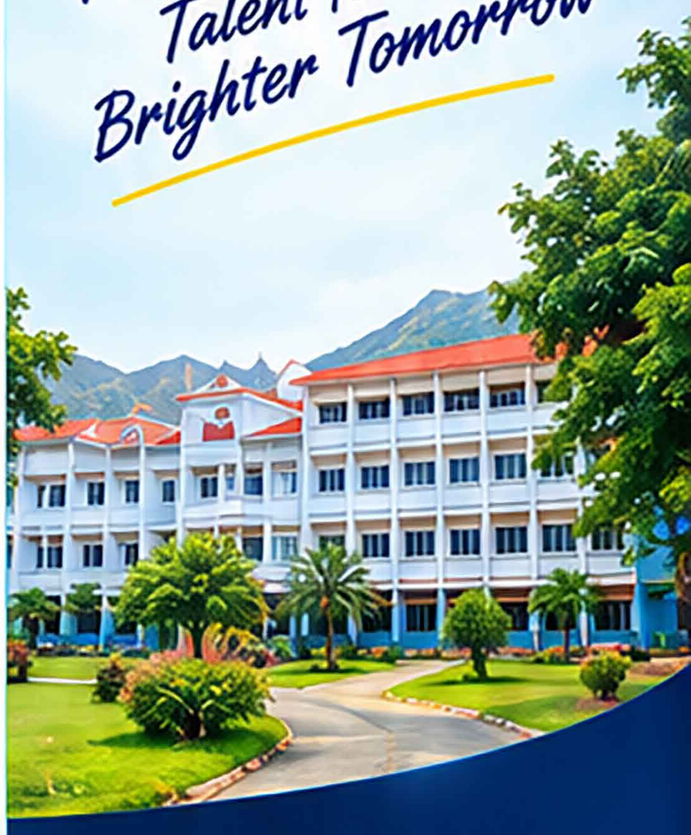
INTERNSHIP OFFERS & COMPLETIONS

Sl. No.	Name	Batch	Organization / Internship Details
1	Sneha Pradeep	S7 CSE B	Got an internship offer on 29th July from **NPOL, DRDO.**
2	Mr. Aldin K Immanuel	S8 CSE A	**DRDO**
3	Ms. Nandhana V J	S8 CSE B	**ISRO Intertial Systems Unit**
4	Ms. Neha Raj C	S8 CSE B	**ISRO Intertial Systems Unit**
5	Ms. Suvarna M	S8 CSE B	**ISRO Intertial Systems Unit**
6	Ms. Sneha Pradeep	S8 CSE B	**DRDO, ISRO**
7	Mr. Vaishnav R	S8 CSE B	**Hornbill Labs Pvt. Ltd**
8	Mr. Abhiram V	S8 CSE A	**Phottam . ai**
9	Mr. Abid Ahammed S H	S8 CSE A	**Phottam . ai**
10	Mr. Adarsh S	S8 CSE A	**Phottam . ai**
11	Ms. Gopika	S6	G Seven Technology
12	Mr. Vishnu V Dev	S6	G Seven Technology
13	Ms. Ann Mary Joseph	S6	G Seven Technology
14	Ms. Suhana Shajan	S6	G Seven Technology
15	Ms. Aswathy V S	S6	G Seven Technology
16	Ms. Pournami Manoj	S6	G Seven Technology
17	Ms. Bhavitha Jayaprakash	S6	G Seven Technology
18	Mr. Alvin N S	S6	G Seven Technology
19	Mr. Agnes Joseph	S6	G Seven Technology
20	Mr. Aleen Rose V Cyriac	S6	G Seven Technology
21	Ms. Angel Thomas N	S6	G Seven Technology
22	Mr. Arun John M S	S6	G Seven Technology
23	Ms. Sreya M	S6	G Seven Technology
24	Ms. Anila Benny	S6	G Seven Technology
25	Ms. prarthana P K	S6	G Seven Technology
26	Ms. Anna Rose C J	S6	G Seven Technology
27	Ms. Niranjana P	S6	G Seven Technology
28	Ms. Aneena O T	S6	G Seven Technology
29	Ms. Cisna Anna Saji	S 6	G Seven Technology
30	Ms. Jwelin Joseph	S6	G Seven Technology
31	Ms. Nandhana A H	S6	G Seven Technology
32	Ms. Aswathi N	S6	G Seven Technology
33	Ms. Fida Binth Iqbal	S6	G Seven Technology



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PEOPLE | TECHNOLOGY | INNOVATION | SOCIETY

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MOOC COURSE

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Online Learning Lifelong Impact

KNOWLEDGE HAS NO BOUNDARIES

MOOC COURSE

Sl. No.	Semester	Name of Student	Course Details
1	S7 CSE B	Ms. Nandhana V J	Data structures and algorithms using python, python for data science
2	S7 CSE B	Mr. Solomon Joy	Python for data science
3	S7 CSE B	Ms. Safva A S	Data science for Engineers
4	S7 CSE B	Mr. Vishnu Mohan	Python for data science
5	S7 CSE B	Mr. Unnikrishnan A R	Python for data science
6	S7 CSE B	Mr. Sanjay P J	Python for data science
7	S7 CSE B	Mr. Sachin E N	Python for data science
8	S7 CSE A	Ms. Gifty Mariya Jose	Python for data science
9	S7 CSE A	Ms. Anagha E R	Python for data science
10	S7 CSE A	Ms. Anugraha Mathai	Python for data science
11	S7 CSE A	Ms. Archana Suresh	Python for data science
12	S7 CSE A	Mr. Akash P	Python for data science
13	S7 CSE A	Mr. Akhil Krishna K P	Programming, Data structures and algorithms using python
14	S7 CSE A	Ms. Anagha Manikandan	Python for data science
15	S7 CSE B	Mr. Ronald K S	Python for data science
16	S3 CSE B	Ms. Diya Vinod	Programming, data structures and algorithms using python
17	S3 CSE B	Ms. Devika P	Introduction to programming in C
18	S7 CSE B	Ms. Sherin Baby	Data structures and algorithms using python.
19	S3 CSE	MUHAMMED ASHIK MS	PROGRAMMING IN JAVA
20	S3 CSE	SWEETY JOSEPH	PROGRAMMING IN JAVA
21	S3 CSE	SHREYA SUJA SUKUMARAN	PROGRAMMING IN JAVA
23	S3 CSE	NITHYA P R	PROGRAMMING IN JAVA
23	S3 CSE	Megha Yeldo	PROGRAMMING IN JAVA
24	S3 CSE	Rinya P Regi	PROGRAMMING IN JAVA
25	S3 CSE	Sanviya Varghese	PROGRAMMING IN JAVA
26	S3 CSE	Nandha Anilkumar	PROGRAMMING IN JAVA
27	S3 CSE	Sneha P S	PROGRAMMING IN JAVA
28	S3 CSE	Sreeshma M	PROGRAMMING IN JAVA
29	S3 CSE	M Malavika	PROGRAMMING IN JAVA
30	S3 CSE	NIDHI RAJESH	PROGRAMMING IN JAVA
31	S3 CSE	NIRANJANA KG	PROGRAMMING IN JAVA
32	S3 CSE	Anupama Anil	INTRODUCTION TO PROGRAMMING IN C
33	S3 CSE	Abhishek Krishna A M	INTRODUCTION TO PROGRAMMING IN C
34	S3 CSE	Aparna P	INTRODUCTION TO PROGRAMMING IN C
35	S3 CSE	Aswin Manoj	INTRODUCTION TO PROGRAMMING IN C
36	S3 CSE	Adithyan Manoj	INTRODUCTION TO PROGRAMMING IN C
37	S3 CSE	Ajitha R	INTRODUCTION TO PROGRAMMING IN C
38	S3 CSE	Aron Alex	INTRODUCTION TO PROGRAMMING IN C
39	S3 CSE	Ashrith Varghese A	INTRODUCTION TO PROGRAMMING IN C
40	S3 CSE	Arya P S	INTRODUCTION TO PROGRAMMING IN C
41	S3 CSE	Arwin Shanto	INTRODUCTION TO PROGRAMMING IN C
41	S3 CSE	Meghana Shaly	PROGRAMMING IN JAVA
42	S3 CSE	Vyshnavi S	PROGRAMMING IN JAVA
43	S3 CSE	Gopika V V	Introduction to Internet of things
44	S3 CSE	Devika V P	INTRODUCTION TO PROGRAMMING IN C
45	S6 CSE A	Abhinav V P	Theory Of Computation
46	S6 CSE A	Ajay V	Introduction to operating Systems
47	S3 CSE B	Diya Vinod	Programming, Data Structures and Algorithms using Python



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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