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

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Creating Technology Leaders of Tomorrow

Vision

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence

Mission

To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
To equip the students with appropriate skills for a meaningful career in the global scenario.

To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.

To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

Core Values

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



Department of Computer Science & Engineering

Department Vision

Creating ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence

Department Mission

To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence. To prepare students for careers in Industry, Academia and the Government.

To instill Entrepreneurial Orientation and research motivation among the students of the department. To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

Programme Educational Objectives

The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

The graduates shall be able to establish themselves as practicing professionals, researchers or Entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

The graduates shall be able to communicate effectively and work in multidisciplinary teams with team spirit demonstrating value driven and ethical leadership.

Programme Educational Objectives

On the completion of Computer Science & Engineering program, the students will possess:

An ability to apply knowledge of data structures and algorithms appropriate to computational problems.

An ability to apply knowledge of operating systems, programming languages, data management, or networking principles to computational assignments.

An ability to apply design, development, maintenance or evaluation of software engineering principles in the construction of computer and software systems of varying complexity and quality.

An ability to understand concepts involved in modeling and design of computer science applications in a way that demonstrates comprehension of the fundamentals and trade-offs involved in design choices.

THE ALGORITHMIC SCROLL



AI-Powered Real-Time Twins

Living, virtual duplicates of physical systems (e.g., factories, infrastructure) updated in real-time by IoT data and AI for predictive maintenance and optimization.

Programme Outcomes

Students in the programme at the time of their graduation are expected to possess the following capabilities:

Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Ability to Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Ability to design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Ability to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

Ability to communicate effectively 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, and give and receive clear instructions.

Ability to demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Ability to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Department Major Activities

Placement Training for S8 Students

As part of the department's continuous efforts to enhance the employability skills of final-year students, a **Placement Training Program** was conducted for **S8 students** on **10th, 11th, and 16th December 2024**. The sessions focused on aptitude development, technical skill enhancement, and interview preparedness, equipping students with the necessary tools to excel in campus recruitment drives. The training also emphasized soft skills and real-world problem-solving, ensuring a holistic approach to career readiness.



Comprehensive Training by Manifold Technologies

A Comprehensive Training Program was organized by Manifold Technologies on 30th December 2024. 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.

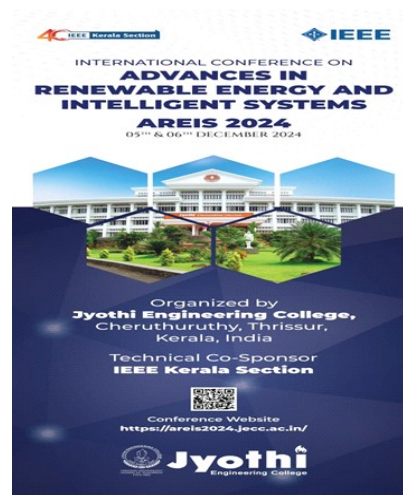
Cisco Lab Inauguration

The **Cisco Lab** was inaugurated on **5th December 2024**, marking a significant milestone in enhancing the department's infrastructure for networking and cybersecurity education. The newly established lab aims to provide students with practical exposure to Cisco technologies, networking concepts, and real-time configurations. This initiative will greatly support hands-on learning, industry-aligned training, and certifications, empowering students to build strong technical expertise in the field of computer networks.



International Conference on AREIS 2024

A Comprehensive Training Program was organized by Manifold Technologies on 30th December 2024. 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.



Christmas Celebration 2024

The **Christmas Celebration** was held on **20th December 2024** with great joy and festive spirit. The event brought together students and faculty to share the warmth of the season 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, marking a memorable end to the year's activities.

One-day workshop

A one-day workshop on “Zero Trust Architecture: Cloud Security” was conducted on **10th January 2025** for **S8 and S4 students**, led by **Mr. Jyothish K, Technical Lead at Zscaler Inc.** The session offered valuable insights into advanced cybersecurity frameworks and cloud protection strategies.



Hackathena 25' Official Launch

The much-awaited Hackathena 25' was officially launched on 16th January 2025. The event marks the beginning of an exciting journey of innovation, creativity, and problem-solving among students. Hackathena 25' aims to inspire young minds to develop cutting-edge technological solutions addressing real-world challenges through collaborative teamwork and innovative thinking. The launch event set an enthusiastic tone for the upcoming hackathon, encouraging active participation and idea generation across diverse domains of technology.



Industrial Visit – S8 and S6 CSE Students

The S8 CSE B batch students attended their Industrial Visit (IV) from 16th January 2025 to 23rd January 2025, providing them with valuable exposure to real-world industrial environments and current technological practices.

Similarly, the S6 CSE A batch students participated in their Industrial Visit from 29th January 2025 to 1st February 2025, gaining practical insights into industry operations, emerging tools, and professional workflows, bridging the gap between academic learning and industry applications.



Jyothi Engineering College Receives Academic Excellence Award by Cisco Networking



Jyothi Engineering College was honored with the **Academic Excellence Award by Cisco Networking** in recognition of its outstanding performance and contributions to networking education. This prestigious award highlights the institution's commitment to integrating advanced networking technologies and Cisco certifications into its curriculum, fostering technical excellence and industry readiness among students. The recognition stands as a testament to the college's dedication to promoting innovation, skill development, and quality education in the field of

computer networks and cybersecurity

Department Staff Tour

The **Department Staff Tour** was organized on **2nd January 2025**, providing faculty members with a refreshing break and an opportunity to strengthen team bonding outside the academic setting. The tour offered a day of relaxation, camaraderie, and joyful moments, fostering a spirit of togetherness and collaboration among the staff.

PTA Meetings – CSE Department

The **Department Staff Tour** was organized on **2nd January 2025**, providing faculty members with a refreshing break and an opportunity to strengthen team bonding outside the academic setting. The tour offered a day of relaxation, camaraderie, and joyful moments, fostering a spirit of togetherness and collaboration among the staff.

Department Assembly

The **Department Assembly** for **S8 CSE students** was conducted on **19th February 2025**, providing a platform to share departmental updates, achievements, and upcoming event announcements.

Similarly, the **Assembly for S6 CSE students** was held on **24th February 2025**, encouraging active student participation and fostering a sense of community and collaboration within the department. Both sessions emphasized academic excellence, discipline, and holistic development among students.

CSE Hackathena 25'

The Department of Computer Science and Engineering successfully organized **Hackathena 25'**, a 48-hour national-level hackathon, held from **27th February to 1st March 2025**. The event served as a vibrant platform for innovation and problem-solving, bringing together talented students to develop creative technological solutions. Participants showcased their skills in coding, AI, and emerging technologies, while mentors and judges from industry and academia provided valuable insights and guidance throughout the event.

Expert Talk on “Impact of Cloud Computing in Digital World” An insightful session on “**Impact of Cloud Computing in Digital World**” was conducted on **15th February 2025**, organized by **IEEE SB JECC** as a **pre-event for Hackathena 25'**.

The session was led by **Mr. G. Ramachandran, Senior Technical Trainer – Cloud Computing**, who shared valuable perspectives on the growing significance of cloud technologies, industry trends, and their transformative role in the digital ecosystem.

The talk served as an excellent knowledge primer for participants gearing up for Hackathena 25', enriching their understanding of cloud-based innovation and applications.



Industrial Visits

Industrial Visits As part of the academic enrichment activities, various batches of the Computer Science and Engineering Department undertook industrial visits during February 2025 to gain practical exposure and industry insights.●

S4 CSE B visited on **12th February 2025**.●

S6 CSE B conducted their industrial visit from **12th to 16th February 2025**.●

S4 CY batch visited on **18th February 2025**.●

S4 CSE C visited on **21st February 2025**.●

S4 CSE A visited on **24th February 2025**. These visits provided students with valuable opportunities to understand real-world applications of engineering concepts and explore current industry practices.

Orientation Session on UPSC and Other Competitive Examinations (SSC, RRB, etc.)

An **orientation session on UPSC and other competitive examinations** such as **SSC and RRB** was conducted on **12th March 2025**. The session aimed to create awareness among students about various career opportunities in the public sector and to guide them on effective preparation strategies for these national-level examinations. Students gained valuable insights into the exam structure, syllabus, and preparation methods, motivating them to pursue their aspirations in civil services and government jobs.



Aptitude and Soft Skills Training for S4 CSE Students

An **Aptitude and Soft Skills Training** program was organized for **S4 CSE students** on **18th and 19th February 2025**. The training focused on enhancing students' **logical reasoning, quantitative aptitude, communication, and interpersonal skills**, preparing them for campus placements and competitive exams. The sessions included interactive activities, problem-solving exercises, and mock interviews, helping students build confidence and improve their employability skills.

Front-End Development Internship

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 Computer Science and Engineering** in association with **CESA**, and supported by **Skill India** and **NSDC**. The internship aimed to provide students with **hands-on experience in modern web technologies**, focusing on **HTML, CSS, JavaScript, and responsive design principles**. Participants gained practical exposure to real-world web development practices, strengthening their technical foundation and industry readiness.



NBA Compliance Visit

The **NBA Compliance Visit** was conducted on **June 28th, 2025**. The visit aimed to ensure adherence to the **National Board of Accreditation (NBA)** standards and to assess the department's commitment to maintaining quality in engineering education. Faculty and staff actively participated in presenting documentation, infrastructure details, and continuous improvement practices, reaffirming the department's dedication to academic excellence and outcome-based education.

Faculty Development Program (FDP)



The poster for the Faculty Development Program (FDP) is divided into several sections. At the top, it features the Jyothi Engineering College logo and the title 'Faculty Development Programme on Empowering innovation: Mastering R programming and AI Deployment strategies'. Below this, there is a 'Registration' section with a QR code and a link to the registration page. The 'Organizing Committee' section lists the Chief Patron, Patrons, Organizing Chairman, Coordinator, Organizing Secretary, and Coordinators. The 'Resource Persons' section lists the speakers for each day of the program. The bottom of the poster includes the Jyothi Engineering College logo and a QR code for registration.

Registration
Last Date for Registration: MAY 28, 2025
Registration Link: <https://regform.com/jyothieng2025>

Resource Persons:
Day-1
Dr. PC Reghuras
Former principal Govt. Engineering College
Kozhikode
Day-2
Dr. Vinith R
Assistant Professor (Dr. Grade)
School of Artificial Intelligence
Amrita Vishwa Vidyapeetham
Coimbatore
Day-3
Mr. Navaneethakrishnan P
Senior Associate Trainer
Immense, All powered EdTech organisation
Coimbatore
Day-4 and Day-5
Mr. Bharanidharan A
Software Engineer
IQZ Systems Pvt. Limited
Coimbatore

ORGANIZING COMMITTEE
Chief Patron:
Magr. Jose Konikkara, Manager
Patrons:
Fr. David Nethikkadan, Executive Manager
Fr. Dr. Jose Kannampuzha, Director (Academics)
Dr. V.M. Xavier, Registrar
Organizing Chairman:
Dr. Jose P. Theattil, Principal
Coordinator:
Ms. Sobha Xavier, HoD, CSE
Organizing Secretary:
Dr. Saja P. John, Professor, CSE
Coordinators:
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Dr. Shylpa M. B.
Email: shylpam@jyothieng.ac.in (Dr. Mob: 79771 29119)

Empowering innovation: Mastering R programming and AI Deployment strategies
Organized by
Department of
Computer Science and Engineering
Jyothi Engineering College
Cheruthuruthy, Thrissur, India, 679531
02nd June to 06th June 2025

An Faculty Development Program (FDP) on “Empowering Innovation: Mastering R Programming and AI Development Strategies” was organized from June 2nd to June 8th, 2025. The program aimed to enhance the participants’ skills in data analysis, machine learning, and artificial intelligence using R programming. Expert sessions, hands-on workshops, and interactive discussions provided valuable insights into innovative AI development methodologies and their real-world applications.

Farewell Party for S8 students

The Farewell Party for S8 students was held on March 25th, 2025, at the college auditorium. The event was filled with joy, memories, and heartfelt moments as students bid adieu to their college life. It featured cultural performances, fun games, and emotional speeches, creating a memorable send-off for the graduating batch.



Faculty Achievements

Ms. Riya Jacob has successfully completed several professional certification courses, showcasing her commitment to continuous learning and skill enhancement in emerging technologies. She completed the “Machine Learning using Python” and “Introduction to Web Analytics” courses offered by **Simplilearn**, strengthening her expertise in data-driven analysis and intelligent systems. Through **Infosys Springboard**, she completed multiple courses including *Computer Vision 101*, *Introduction to Artificial Intelligence*, *Introduction to Natural Language Processing*, *Introduction to Deep Learning*, *Introduction to Robotic Process Automation*, *Robotics*, and *IoT and Electronics*, gaining comprehensive knowledge across diverse domains such as automation, AI, and connected technologies. Additionally, she completed the “Introduction to Modern AI” course offered by **Cisco Networking Academy**, deepening her understanding of artificial intelligence concepts. She also completed the “Introduction to MS Excel” course from **Simplilearn**, enhancing her data management and analytical skills.



Ms. **Aswathy Wilson** actively participated in academic and community development activities, contributing to both scientific and social initiatives. She **attended the 37th Kerala Science Congress**, an annual event organized by the **Kerala State Council for Science, Technology & Environment** and the **Kerala Startup Mission**, held at **Kerala Agricultural University (KAU), Thrissur** on **February 10th**.



In addition, she **delivered a talk on “Building Dreams: Women Entrepreneurs in a Changing World”** as part of the **Women’s Day celebrations** organized by the **Women Cell, SHE, and AZORA Students Union** at **IPT & GPTC Shoranur**, inspiring students and participants to embrace entrepreneurship and innovation

and innovation

Mr. Aneesh Chandran :Got 100% university result in S7 Theory Course –Cloud Computing.



Robotic Process Automation. Additionally, she completed the **“Computer Hardware Basics”** course offered by **Cisco Networking Academy**, gaining practical insights into computer hardware components and system architecture.



Ms.Ninu Francis :Got 100% university result in S3 Theory Course – Design and Engineering

Ms.Sajitha I: Got 100% university result in S5 Theory Course – System Software



Mr. **Saju Chittilappilly** successfully completed a **4-week NPTEL course on “Systems and Usable Security”**, enhancing his understanding of secure system design and user-centric cybersecurity practices.



Ms.Jyothsna G K :Got 100% university result in S7 Theory Course –Web Programming.

Ms. Blesmi Rose Joseph :Got 100% university result in S3 Theory Course – Design and Engineering.



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.

Ms. **Aparna Mohan** successfully completed several certification courses that strengthened her knowledge in emerging technologies. She



completed **Infosys Springboard** courses on *Computer Vision 101, Introduction to Artificial Intelligence, Introduction to Natural Language Processing, Introduction to Deep Learning*, and *Introduction to*



Ms. **Sonia A Joseph** presented a **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 (ACCESS 2025)**, hosted by **Adi Shankara Institute of Engineering and Technology, Kalady**.



Sr. Dr. Mercy Joseph successfully completed **four Infosys Springboard courses** as part of the “**Google Associate Cloud Engineer**” program, strengthening her expertise in cloud technologies and

infrastructure management.

Dr. Saju P John and Mr. Saju C.J attended a **one-day CISCO training program** held in **Bangalore on 16th January 2025**. The session provided valuable insights into advanced networking technologies and recent developments in Cisco systems, enhancing his technical expertise and pedagogical approach in the domain of computer networks and cybersecurity.



Ms. Sobha P Xavier successfully completed the NPTEL + Workshop on “**Data to Dashboard: Mastering Visual Storytelling with Tableau**”, gaining hands-on experience in data visualization

and analytics. She also completed another NPTEL + Workshop on “*Effective Teaching*”, which focused on enhancing pedagogical skills and innovative teaching methodologies for improved classroom engagement.

Dr. Jarin T served as a **resource person** at **Jubilee Mission College of Nursing, Thrissur**, for the **Workshop on “Transforming Nursing through AI: Opportunities, Challenges, and Future Directions”** held on **March 21st, 2025** and also was appointed as the **Centre Coordinator** for the conduct of **KEAM 2025 – Computer-Based Entrance Examination**, overseeing the smooth execution of the examination process.



Mr. Saju Chittilappilly successfully completed an **NPTEL 4-week course on “Systems and Usable Security”**, enhancing his expertise in system security and user-centered design principles.



Ms. Jyothsna G K completed an **NPTEL 8-week course on “Design and Analysis of Algorithms”**, strengthening her understanding of algorithmic techniques and computational efficiency.



Ms. Jyothsna G K successfully completed an **NPTEL 8-week course on “Design and Analysis of Algorithms”**, enhancing her knowledge of computational problem-solving and algorithmic design techniques.

Dr. Shyjith M. B served as the **Session Chair** for the **Computer Science and Engineering track** at the **International Conference on Advancements in Science, Engineering & Technology (ICASET 2025)**, held on **April 25th, 2025**, at **Ahalia School of Engineering and Technology, Palakkad**.



Awards Received



Ms. Sobha P Xavier received the **Best Paper Award** in the category of *Informatics and Applications* for her paper titled “**Handcrafted Feature Extraction**

Methods for Post-Operative Recurrent Brain Tumor Detection” at the **7th International Conference on Communication and Computational Technologies (ICCCT 2025)** held at the **National Forensic Sciences University, Goa Campus**. This recognition highlights her contribution to innovative research in medical image processing and computational intelligence.

Dr. **Jarin T** was awarded certificates for successfully completing the **Innovation Ambassador (IA) Training** conducted by the **Ministry of Education's Innovation Cell (MoE) and AICTE**. She completed all three levels of the program — **Foundation Level, Advanced Level, and Reskilling**, demonstrating her active engagement in fostering innovation and entrepreneurship in academia.



Faculty Publications

1. Dr. Valanto Alappat published a journal article titled "Edge-Cloud Computing for IoT Data Analytics Using Optimized Progressive Graph Convolutional Networks" in an SCIE-indexed journal. <https://doi.org/10.1080/03772063.2025.2458611>

2. Dr. Saju P John presented a Scopus-indexed conference paper titled "LSTM-Based Offloading for Edge Intelligence." <https://doi.org/10.1109/AREIS62559.2024.10893644>

Dr. Saju P John presented another Scopus-indexed conference paper titled "Real-Time Detection of Physical Altercations Using AI Frameworks." <https://doi.org/10.1109/AREIS62559.2024.10893639>

Dr. Saju P John presented a Scopus-indexed conference paper titled "AI Empathetic Chatbot with Real-Time Emotion Detection Using Multimodal Fusion and BO-CNN Optimization." <https://doi.org/10.1109/AREIS62559.2024.10893614>

Dr. Saju P John published an SCIE-indexed journal article titled "Illuminating the Depths: Attention CoupleNet-Driven Underwater Image Classification Integrated with Adaptive Doll Maker Optimization." <https://doi.org/10.1080/03772063.2025.2484436>

Dr. Saju P John published another SCIE-indexed journal article titled "Enhanced Underwater Image Classification Using SAE-Based Adaptive Golden Eagle Optimizer for High-Accuracy Marine Species Identification." <https://doi.org/10.1007/s12145-025-01732-0>

Dr. Saju P John contributed a Scopus-indexed book chapter titled "Analysis of Blockchain-Based Technologies Employed in Inter-EV and Grid-EV Energy Trade." <https://doi.org/10.1002/9781394303564.ch15>

Dr. Saju P John presented a Scopus-indexed conference paper titled "A Comprehensive Review of Small Building Detection in Collapsed Images: Advancements and Applications of Machine Learning Algorithms." https://doi.org/10.1007/978-981-97-7423-4_33

Dr. Saju P John published an SCIE-indexed journal article titled "Edge-Cloud Computing for IoT Data Analytics Using Optimized Progressive Graph Convolutional Networks." <https://doi.org/10.1080/03772063.2025.2458611>

Dr. Saju P John published a Scopus-indexed journal article titled "Improvised Machine Learning Model for Extracting Building Footprints from Collapsed Images Using High-Resolution Remote Sensing Images." <https://doi.org/10.1142/S1793962325410193>

Dr. Saju P John published another Scopus-indexed journal article titled "Advancing Building Damage Classification Accuracy through Machine Learning-Based Model Design." <https://doi.org/10.21203/rs.3.rs-4219712/v1>

3. Dr. Swapna B Sasi presented a Scopus-indexed conference paper titled "U-Transformer Driven Brain Tumor Recurrence Predicting Using Radiomic Feature Extraction.

4. Dr. Valanto Alappat published an SCIE-indexed journal article titled "Edge-Cloud Computing for IoT Data Analytics Using Optimized Progressive Graph Convolutional Networks." <https://doi.org/10.1080/03772063.2025.2458611>

Dr. Valanto Alappat presented a Scopus-indexed conference paper titled "Image Forgery Detection Using Machine Learning Algorithms: An Integration of Detection and Retrieval Methods.

5. Dr. Shyji M B presented a Scopus-indexed conference paper titled "A Machine Learning Approach for Crop Yield Prediction Using Weather Condition." <https://doi.org/10.1109/AREIS62559.2024.10893606>

6. Dr. Jarin T published an SCIE-indexed journal article titled "Trio-DL: A Novel Deep Learning Framework for Enhanced Facial Emotion Recognition in Autistic Children." <https://doi.org/10.1080/02533839.2025.2479120>

Dr. Jarin T published an SCIE-indexed journal article titled "Optimizing EV Charging with Decentralized Energy and Game Theory: A Deep Neural Approach to Sustainable Power Distribution." <https://doi.org/10.1080/02533839.2025.2491426>

Dr. Jarin T contributed a Scopus-indexed book chapter titled "Hybrid Energy Management and Control Strategy for Electric Vehicles Using Harris Hawks Optimization Technique." <https://doi.org/10.4018/979-8-3373-2382-4.ch016>

Dr. Jarin T published an SCIE-indexed journal article titled "A Hybrid Model for Detecting Intrusions Using Stacked Auto Encoders and Extreme Gradient Boosting." <https://doi.org/10.1016/j.cose.2024.104212>

Dr. Jarin T published an SCIE-indexed journal article titled “A Novel Deep Learning Framework for Intracranial Hemorrhage Segmentation and Detection Using Advanced U-Net and Metaheuristic Optimization.” <https://doi.org/10.1080/02533839.2025.2504707>

Dr. Jarin T published an SCIE-indexed journal article titled “Modelling of Electric Dental Hand Pipe Using ANFIS Assisted Micro-Permanent Magnet Synchronous Motor.” <https://doi.org/10.1007/s12206-025-0412-1>

Dr. Jarin T published an SCIE-indexed journal article titled “High-Gain DC-DC Converter with Triple-Winding Coupled Inductor for Enhanced Power Quality in Renewable Energy Applications.” <https://doi.org/10.1007/s00202-024-02830w>

Dr. Jarin T published an SCIE-indexed journal article titled “Synthesis and Characterization of Piperine-Modified Mesoporous Silica Nanoparticles for Biomedical Applications.” <https://doi.org/10.1002/bab.2672>

7. Ms. Aswathy Wilson published a Scopus-indexed journal article titled “Multimodal Detection of Autism Spectrum Disorder Using SBJSO-Trained Deep Neural Networks.”

8. Ms. Ninu Francis presented a conference paper titled “Fundfident – Crowdfunding Platform for Startups Using Blockchain.” and also presented another Scopus-indexed conference paper titled “Automated Prediction of Brain Tumor Recurrence Using an Adaptive Snail Fish-Based Inception V3.”

9. Ms. Sajitha I published a Scopus-indexed journal article titled “Improvised Machine Learning Model for Extracting Building Footprints from Collapsed Images Using High-Resolution Remote Sensing Images.” <https://doi.org/10.1142/S1793962325410193>

Ms. Sajitha I published another Scopus-indexed journal article titled “Advancing Building Damage Classification Accuracy Through Machine Learning-Based Model Design.” “She also presented a Scopus-indexed conference paper titled “A Comprehensive Review of Small Building Detection in Collapsed Images: Advancements and Applications of Machine Learning Algorithms.” https://doi.org/10.1007/978-981-97-7423-4_33

9. Ms. Sona Shaju K presented a Scopus-indexed conference paper titled “Handcrafted Feature Extraction Methods for Post-Operative Recurrent Brain Tumor Detection.” “10. Ms. Sonia A Joseph presented a Scopus-indexed conference paper titled “Efficient Real-Time Vehicle Tracking Using YOLOv8 with Frame Skipping,” at the International Conference ACCESS 2025, Adi Shankara Institute of Engineering and Technology, Kalady.

11. Ms. Neethu Joseph presented a Scopus-indexed conference paper titled “Eye Controlled AI Assistive Device: Empowering Paralyzed Individuals.” <https://doi.org/10.1109/IconSCEPT61884.2024.10627806> and also presented another Scopus-indexed conference paper titled “TimberGuard: AI-Based Tree Fall Prediction System.

12. Ms. Sobha Xavier P presented a Scopus-indexed conference paper titled “Handcrafted Feature Extraction Methods for Post-Operative Recurrent Brain Tumor Detection.” “She also published an SCI-indexed journal article titled “Addressing the Complexities of Postoperative Brain MRI Cavity Segmentation – A Comprehensive Review.” <https://doi.org/10.11591/eei.v13i5.7930>

13. “Mr. Arun K presented a Scopus-indexed conference paper titled “Handcrafted Feature Extraction Methods for Post-Operative Recurrent Brain Tumor Detection.”

14. Ms. Neethu T V presented a Scopus-indexed conference paper titled “Handcrafted Feature Extraction Methods for Post-Operative Recurrent Brain Tumor Detection.” She also presented another Scopus-indexed conference paper titled “Performance Comparison of XGBoost and CatBoost Algorithm in Credit Card Fraud Detection with Streamlit-Based Web Application.” <https://doi.org/10.1109/AREIS62559.2024.10893617>

15. Dr. Geethu Mary George presented a Scopus-indexed conference paper titled “A Sustainable Food Supply Chain Model for Crisis Management.

16. Ms. Aparna Mohan presented a Scopus-indexed conference paper titled “Exploring the Metaverse: The Fusion of AV, VR and AI.”

Workshop / Conferences Attended

1. Ms. **Aparna Mohan** attended a **15-day workshop on “Generative AI and Prompt Engineering”** organized by **ASAP**, which provided hands-on training and insights into the emerging field of artificial intelligence-driven content generation and prompt design.

2. Ms. **Riya Jacob** attended a **15-day workshop on “Generative AI and Prompt Engineering”** organized by **ASAP**, which enhanced her understanding of AI models and their real-world applications. In addition, she **participated in a one-day workshop on “Explore Decentralised**

Identity and Digital Credentials” organized by the **Kerala Blockchain Academy (KBA)** on **23rd January 2025**, gaining valuable insights into blockchain-based identity management systems and emerging digital credential technologies.

3. **Ms. Anumol C S** :Got 100% university result in S1 Theory Course –**Algorithm Thinking with Python** .

4.**Ms. Neethu T V** : Got 100% university result in S1 Theory Course –**Algorithm Thinking with Python** .

5.**Ms. Anumol C S** :Completed NPTEL workshop Certificate on “**Career Development: Grow your team**”.

FDP's Attended

1 Dr. Geethu Mary George -Attended five days of FDP on” Applied Generative AI” at Saintgits College of Engineering from 09/12/2024 to 13/12/2024.

2 Mr. Thomas George K -Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “ held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

3 Ms.Sobha P Xavier- Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “ held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

4 Mr. Saju Chittilappilly : Attended five days FDP on” Applied Generative AI” at Saintgits College of Engineering from 09/12/2024 to 13/12/2024.

5 Ms. Jyothsna G K: Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “ held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

6 Ms. Neeraja James :Attended five days FDP on” Applied Generative AI” at Saintgits College of Engineering from 09/12/2024 to 13/12/2024.

7 Ms. Neethu T V : Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

8 Ms. Blesmi Rose Joseph :Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “ held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

9 Ms. Reedhu Saji :Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “ held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

10 Ms. Aparna Mohan: Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

11 Ms. Riya Jacob :Attended five Days FDP on “Revolutionizing AI: Practical Insights into Deep Learning for NLP and computer Vision “held from 12th -17th of December 2024 organized by Vidya Academy of Science and Technology.

12 Dr. Shyji M B : Attended five Days FDP on “Generative AI – The Future of Creativity and Automation “ held from 13th -17th of January 2025 organized by Vidya Academy of Science and Technology.

13 Ms. Aswathy Wilson :Attended the ATAL FDP on “Advanced Techniques in AI and Machine Learning” at College of Engineering, Cherthala, from January 6, 2025, to January 11, 2025.

14 Ms.Sobha P Xavier :Attended the ATAL FDP on “Advanced Techniques in AI and Machine Learning” at the College of Engineering, Cherthala, from January 6, 2025, to January 11, 2025. Participated in the training program/FDP on “practical Aspects of ICT Tools & Online teaching in current scenario “ from Jan 2nd to Jan 9th ,2025.

- 15 Ms. Aparna Mohan :Attended Three Days of FDP on “IT Workshop “ held from 9th -11th of January 2025 organized by St. Thomas Institute For science and technology.
- 16 Mr.Vysagh M :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025.
- 17 Ms. Neethu Joseph :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th, 2025, to February 15th, 2025.
- 18 Ms. Neeraja James :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025.
- 19 Ms. Anumol C S: Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025.
- 20 Mr. Arun K :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025.
- 21 Ms. Sona Shaju k :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025
- 22 Ms. Neethu T V :Attended the ATAL FDP on “Strategic Approaches and Emerging Trends in Data Science” at FISAT, from February 10th , 2025, to February 15th , 2025.
- 23 Mr. **Saju Chittilappilly** successfully completed the **NPTEL–AICTE Faculty Development Programme (FDP)** on “*Systems and Usable Security*”, enhancing his expertise in system security design and usability principles.
- 24 Ms. **Jyothisna G K** successfully completed the **NPTEL–AICTE Faculty Development Programme (FDP)** on “*Design and Analysis of Algorithms*”, strengthening her knowledge in computational logic, algorithm optimization, and performance analysis.
- 27 Dr. Jarin T :Completed FDP on “Recent Advances in Electric and Hydrogen Fuel cell Mobility”
- 28 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.
- 29 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.
- 30 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.
- 31 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
- 32 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.
- 33 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”.
- 34 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.
- 35 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.
- 36 Ms. Jyothisna G K :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.

Student Achievements.

- 1 Evin Babu and Dhiya Babu from S8 CSE A presented a paper titled “Performance Comparison of XGBoost and CatBoost Algorithm in Credit Card Fraud Detection with Streamlit-Based Web Application” and accepted for publication at AREIS 2024 , Jyothi Engineering College on 5th and 6th December.
- 2 Ms.Anjana and Ms.Angitha from S4 CY won the First Prize in the Technical QuizCompetition held at Thejus Engineering College.
- 3 Ms. Afna R.H. of M.Tech CSE was awarded the Best Outgoing Student – M.Tech.
- 4 Mr. ABHIRAM V. of S6 CSE A was awarded the Best Stringer.
- 5 Manju P.M of S4 CSE secured the 3rd prize in the Water Quality Awareness Competition
- 6 Aneena O.T of S4 CSE received a consolation prize in the Water Quality Awareness Competition
- 7 Ms.Afna R.H. has got SGPA of 10 in KTU S3 MTech Exam Dec2024.
- 8 Mr.Alan Jose Santo of S6 CSE won first Prize in the Eastern Music (solo) Competition at Rudra 2025 hosted by NSS College of Engineering ,Palakkad on March 8th .
- 9 Team Agridhyam won the 1st prize in the APJAKTU Startup Cell Idea Pitching Competition. The team comprised Rahul R Nair, Rinza, Harikrishnan K, and Abhinav S Rajesh from S4 CSE.
- 10 Gokul P.Menon -S8 CSE A, Joel Joy and Josiah Benny of S8 CSE B qualified GATE2025.
- 11 YUKTHI 25 – KATPENTAR Project Excellence Award (Track 3: Software Project) was awarded to the project “AquaGuardian: Automated Water Body Cleaner with Water Quality Monitoring” by Freejo Jaison, Akhil Jose, Aswin Vincent, and Alwin Mathew of S8 CSE A, under the guidance of Mr. Arun K.
- 12 YUKTHI 25 – People’s Choice Award was won by the project “A Messaging Application for Intranet” developed by Nafila P M, Neema M T, Niyatha Shanavas S S, and V S Anna of S8 CSE B, under the guidance of Mr. Saju Chitilapilly.
- 13 First Prize: REALITY – E-Commerce Based on Virtual Try-On and Product CustomizationTeam: Athul Murali, Evin Babu, Jerin Jaison T, Jishnu DevadasGuide: Mr. Aneesh Chandran
- 14 Second Prize: MEDRESQ – Emergency Dispatch SystemTeam: Alex Emmatty, Abhinav Joy C, Andrea Sunny, Diya BennyGuide: Dr. Shyji M B
- 15 Third Prize: Drive Awake, Stay Safe – IoT-Based Real-Time Drowsiness Detection with Multi-Channel Alerts and App Sharing Team: Aleena Kuruvila, Akash Joju, Alfin Jose, Anjo Jaison Guide: Ms. Neethu T V

16 First Prize: AQUAVACTeam: Krishna Sri T, Sarath S Nair, Sneha P S, Steve Tanex
PGuide: Dr. Shyjith M B

17 Second Prize: SAFE ROAD – Accident Prone Area PredictionTeam: Muhammed Muhnish
T K, Pavin K Joby, Soan Diaz E S, Thomas SunilGuide: Mr. Aneesh Chandran

18 Third Prize: AR Based Gym TrainerTeam: Rimal Manuel, Riya Jaison, Roshan Ali,
Sree Lakshmi E AGuide: Mr. Saju Chitilapilly

19 Mr. Rahul R Nair of CSE 2023-2027 batch have been selected for the EE Summer
school 2025 Indian Institute of Science Bangalore from July 10th to 12th 2025.

Placements

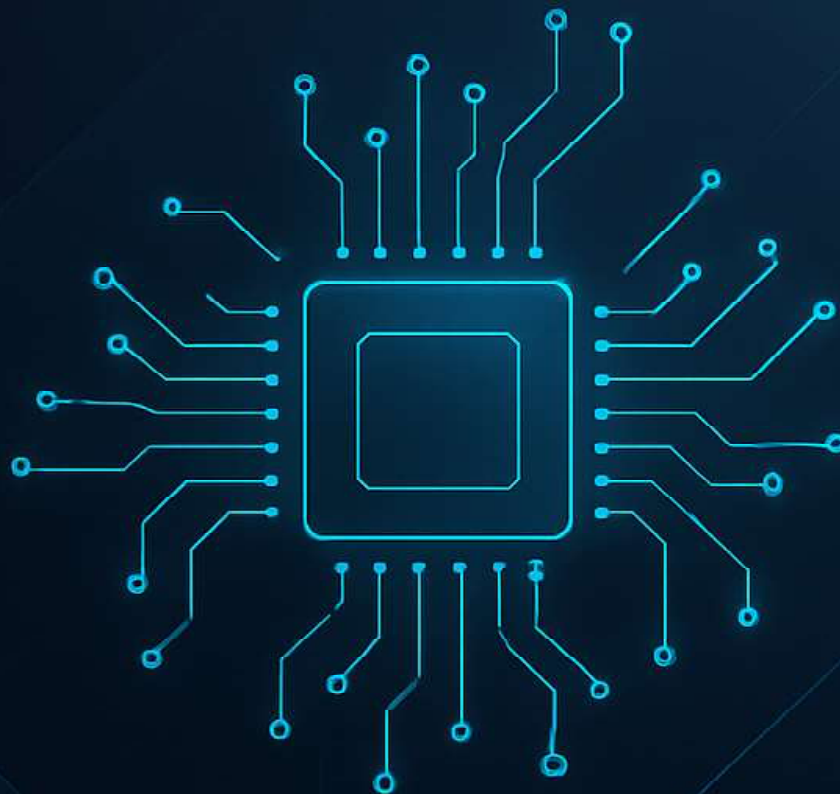
Sl No	Name	Semester/Dept	Company
1	ABHIJITH SURESH	S8 CSE A	UST
2	AKHIL JOSE	S8 CSE A	UST
3	ALEENA KURUVILA	S8 CSE A	UST
4	ALWIN MATHEW	S8 CSE A	UST
5	ARUN K NAIR	S8 CSE A	UST
6	ATHUL MURALI T	S8 CSE A	UST
7	GOKUL P MENON	S8 CSE B	UST
8	RAICHEL JOSE	S8 CSE B	UST
9	SARATH S NAIR	S8 CSE B	UST
10	ALWIN C SHAJI	S8 CSE A	Cognizant
11	NOEL M ABY	S8 CSE B	Cognizant
12	Sree Lakshmi E A	S7 CSE B	Infosys
13	Sandhra Jojo	S7 CSE B	Infosys
14	Krishna Sri T	S7 CSE B	Infosys
15	ANAKHA A	S8 CSE A	EY
16	ANAMIKA R	S8 CSE	AEY
17	ANTONY SCARIA	S8 CSE	AEY
18	DEVNA AJITH	S8 CSE	AEY
19	FATHIMATHUL THABSHIRA PJ	S8 CSE	AEY
20	JOBIN JACOB GEORGE	S8 CSE B	EY
21	KR JISHNU	S8 CSE B	EY
22	MARTIN ANTONY FRANCIS	S8 CSE B	EY
23	NAFILA P M	S8 CSE B	EY
24	NEAMA MT	S8 CSE B	EY
25	RIYA HARI	S8 CSE	BEY
26	ROSE CLARA JOSHI	S8 CSE	BEY
27	SHELJA SHERIN MV	S8 CSE	BEY
28	V S ANNA	S8 CSE B	EY
29	FREEJO JAISON K	S8 CSE A	6D Technologies
30	STEVE TANEX P	S8 CSE B	6D Technologies
31	Antony Scaria	S8 CSE A	LTIMindtree
32	B Nithin	S8 CSE A	LTIMindtree
33	Hridhya U R	S8 CSE A	LTIMindtree

34	Jobin George	S8 CSE B	LTIMindtree
35	Joseph Martin	S8 CSE B	LTIMindtree
36	Merilyn Joyson	S8 CSE B	LTIMindtree
37	Riya Jaison	S8 CSE B	LTIMindtree
38	Sandhra Jojo	S8 CSE B	LTIMindtree
39	Shadhiya V	S8 CSE B	LTIMindtree
40	Steephon T J	S8 CSE B	LTIMindtree
41	Anagha V P	S8 CSE A	LTIMindtree
42	Abhinav Joy C	S8 CSE A	Sutherland
43	Alicia Denny	S8 CSE A	Sutherland
44	Andrea James	S8 CSE A	Sutherland
45	Anupama S	S8 CSE A	Sutherland
46	Christena M Sunny	S8 CSE A	Sutherland
47	Joel Louvi Kannath	S8 CSE B	Sutherland
48	Nandana Sethu	S8 CSE B	Sutherland
49	Pavin K Joby	S8 CSE B	Sutherland
50	Sneha P S	S8 CSE B	Sutherland
51	Sooraj Sajit	S8 CSE B	Sutherland
52	Mr. Ageto Sunny	S8	Federal Bank
53	Ms. Aleena Kuruvila	S9	Federal Bank
54	Ms. Annrose Watson	S10	Federal Bank
55	Mr. Simon Sandeep	S11	Federal Bank
56	Mr. Vivek Vijayakumar	S12	Federal Bank

Co-curricular & Extracurricular activities

- 1 Mohummed Zayaf from S4 CSE B got first prize in 1500m Race Boys ,Second Prize in 400m Race, second prize in 200m Race and 3rd prize in 4 X 100m Relay.
- 2 Dalia P Johnson from S4 CSE B got first prize in shot-put and Discus throw
- 3 Manju P M from S4 CSE B got first prize in 4 X100m Relay
- 4 Aleena Kuruvila from S8 CSE B got second prize in Long Jump and Relay.Third Prize for Javelin throw.
- 5 Suvarna M from S6 CSE B got first prize in Relay.
- 6 Sarga K S got third Prize in 100m Race , First prize in 200m Race and first prize in Long Jump.





CREATING TECHNOLOGY
LEADERS OF TOMORROW
ESTD 2002

Jyothi
Engineering College
(AUTONOMOUS)
THRISSUR, KERALA, INDIA