

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE NEWSLETTER



VISION

CREATING ETHICAL LEADERS
THROUGH QUALITY

PROFESSIONAL EDUCATION WITH
EMPHASIS ON HOLISTIC EXCELLENCE

MISSION

- TO EMERGE AS AN INSTITUTION PAR EXCELENCE 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.



Jyothi Engineering College

Reaccredited with NAAC (Grade A) and NBA Programmes*

Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University
A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
JYOTHI HILLS, VETTIKATTI P.O., CHERUTHURUTHY, THRISSUR, 679531 | Ph. +91 4884 259000 | info@jecc.ac.in | www.jecc.ac.in
*NBA accredited B.Tech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025, Mechatronics Engineering valid till 2026

DEPARTMENT MISSION

Strengthening basic competencies in the domains of Artificial Intelligence and Data Science. Providing high-quality, value-based technical education and developing technology professionals with creative ideas and compelling leadership abilities. Using logical thinking to create and develop cutting-edge products in collaboration with industry stakeholders in order to meet global expectations and requirements. Enabling graduates to adapt to new technologies via strong fundamentals and lifetime learning .

DEPARTMENT VISION

Creating ethical leaders in the domain of Artificial intelligence and data Science through effectual teaching and learning process to develop emerging technology solutions for the benefits of industry and society with a focus on holistic learning and excellence.

PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates will demonstrate comprehensive expertise in Artificial Intelligence, Machine Learning, and Data Analysis, and apply interdisciplinary knowledge in Computer Science, Statistics, and Advanced Mathematics to address real-world challenges.
- Graduates will innovate and create impactful solutions ethically, contributing to societal betterment, leveraging their leadership, collaboration, and communication skills for effective teamwork and multidisciplinary endeavors.
- Continuously fostering a culture of lifelong learning, graduates will adapt to evolving technological landscapes, demonstrating adaptability and a commitment to ongoing professional development in the dynamic field of AI and Data Science.

PROGRAMME SPECIFIC OUTCOMES

- Graduates will be able to apply core principles of Science, Engineering, and Mathematics to develop AI-driven solutions for real-world challenges.
- Graduates will design, develop, and implement efficient as well as scalable algorithms using programming languages, data structures, and cloud computing technologies.
- Graduates will integrate ethical, social, and security considerations while developing AI-driven intelligent systems, ensuring responsible AI deployment.

A Note from the HoD...

It is with great pleasure that I welcome you all to the **Issue 5 of the Artificial Intelligence and Data Science (AI & DS) Department Newsletter**. This publication captures the academic energy, innovation, and dedication that define our department as we continue to stay at the forefront of fast-evolving technology.

This issue showcases the outstanding achievements of our students and faculty—from impactful research and innovative projects to meaningful collaborations and practical AI applications.



BINEESH M
Head the Department

Their commitment to excellence drives our department's continued growth and relevance in solving real-world problems through data and intelligent systems. Over the past year, we have organized various workshops, seminars, hackathons, and industry-linked events that have enriched learning and fostered innovation. Programs like Python Bridge Courses, AI competitions, and discussions on ethical AI have contributed significantly to student development and readiness for future challenges.

Looking ahead, we remain committed to nurturing curiosity, collaboration, and ethical thinking. Through these values, we aim to prepare the next generation of AI professionals to lead responsibly and make meaningful contributions across academia, industry, and society. Let us continue this journey together toward a smarter, data-driven future.

Student Spotlight

It is with great pride that I present the **Issue 5 of our AI & DS Department Newsletter**. This edition showcases our department's vibrant journey through innovation, skill development, and academic excellence.

The year featured impactful programs like the Python Bridge Course, Flutter App Workshop, META HUB, Web Boot Camp, AR/VR, and Cybersecurity Workshops—bridging theory and real-world application.



SNEHA PAUL
Student Editor

Events like *Idea Ignite* fostered innovation for sustainability. We celebrate notable student achievements, including wins at VFIESTA 3.0, E-Zone Basketball, Interzone Karate, and the NASA Space Apps Challenge, along with top academic results and successful placements. Faculty contributions through NPTEL certifications, publications, and conferences like AREIS 2024 further reflect our pursuit of excellence in AI and data-driven solutions.

Artificial Intelligence continues to drive technological transformation. Our department remains committed to fostering hands-on learning, ethical AI practices, and research in machine learning, data analytics, and intelligent systems. Thank you to all contributors. Let's continue to learn, innovate, and lead in the world of AI and Data Science.

DEPARTMENT HIGHLIGHTS

The Department organized an online **Python Bridge Course** from **June 25 to July 15, 2024**, providing first-year students with a hands-on introduction to Python programming.



The Department of Artificial Intelligence and Data Science, in association with **CSI and ICT Kerala**, organized a National Workshop on **Flutter App Development** from **June 24–28, 2024**, equipping participants with practical skills in building mobile applications using Flutter.



The Department of Artificial Intelligence and Data Science organized the **META HUB Boot Camp** on **August 21, 2024**, featuring hands-on sessions and expert talks to bridge the gap between academics and industry. The program was inaugurated by Mr. Bineesh M, Head of the Department.



An **AR/VR Workshop** was held by the Department of Artificial Intelligence and Data Science in association with **TinkerHub, IEDC, AIDA, and IIC**, where Mr. Shijo John guided students through hands-on sessions in Augmented and Virtual Reality.



The Department of Artificial Intelligence and Data Science organized a **Web Development Boot Camp** on **September 10, 2024**, inaugurated by **Mr. Bineesh M**, HoD, to provide practical exposure to modern technologies.



The Department of Artificial Intelligence and Data Science, Jyothi Engineering College, organized a **Cybersecurity Workshop** on **30th September 2024**, focusing on Zero Trust architecture, ransomware defense, and phishing prevention. Participants benefited from collaborative learning with informative booklets and refreshments.



On **2nd October 2023**, the Department of Artificial Intelligence and Data Science and AIDA organized **Idea Ignite** as part of **Tharang**, attracting 170+ participants. With 24 shortlisted teams, the event focused on sustainability, encouraging innovative solutions in renewable energy, waste management, water conservation, and green technology.

NEWSLETTER

DEPARTMENT OF
ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE ENGINEERING

UNIVERSITY RESULT TOPPERS

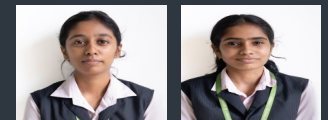
In S2 university exams, AD toppers are Rosmila K T (10), Keerthi K (9.33) & Mohammed Abid Ummer (9.0)



In S4 university exams, AD toppers are Krishnendu U N (8.91), Prithgvishankar Menon (8.86), Ajith Varghese (8.41), Liya M (8.23) & Haritha K Suresh (8.18).



In S6 university exams, AD toppers are Aparna Joseph (8.52), Nandana Anand (8.43), Bhagyalakshmi Saburaj (8.26), Gouri K P & Hridya Girish.



In S8 university exams, AD toppers are Chandini T S (9.21), Femi Rosh (9.03), Sandra M (8.76), Divya Pillai (8.62), Ardhra M A (8.59).



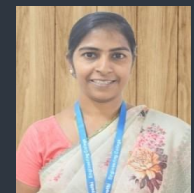
NEWSLETTER

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE ENGINEERING FACULTY PAPER PUBLICATIONS

Dr. Anoop V published a paper on "Dynamic Task Offloading for Resource Allocation and Privacy Preservation in Kub Edge Computing Using Machine Learning" in *Cluster Computing* (Springer, SCIE), March 2024.



Ms. Seenia Francis Published a paper "Prior-guided generative adversarial network for mammogram synthesis." on *Biomedical Signal Processing and Control* 87 (2024): 105456



We proudly announce that **Devaprakash** won the **VFIESTA 3.0** competition.



Ajith Varghese, Shalvin Shabu, Abhiram, and Dhanajay earned the "Galactic Problem Solver" award in the NASA Space Apps



FACULTY ACHIEVEMENTS

Ms. Seenia Francis Received KTU PhD Guideship .



- Dr. Anoop V, Mr. Bineesh M, Ms. Parvathy Jyothi, Mr. Jayakrishnan, and Ms. Anjali O successfully completed the NPTEL MOOC course.
- Mr. Bineesh M contributed actively to academic and professional platforms in 2024. He inaugurated the B.Voc Data Science and Analytics Association, delivered an expert talk on *Big Data & Analytics* at MES Ponnani College, reviewed papers for ICCSP 2024, served as a Project Evaluation Committee member for Yukthi 2024, and chaired the AI & ML session at AREIS 2024.

EDITORIAL BOARD

STAFF EDITOR : RENI JOSE

STUDENT EDITOR: SNEHA PAUL

DEPT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



STUDENT ACHIEVEMENTS

Mr. Bimal Roy got the sunny diamond award for the best outgoing student



AI Amthan from S5 Won the Gold medal in kata and silver medal in kumite in the **APJAKTU Interzone karate competition 2024-2025**



2020- 2024 batch achieved the highest overall pass percentage batch within the college in the **university Examination held in may 2024**



Adrija pramod and Fathima Shifa Secured 2nd Position in **APJAKTU E-Zone Basketball** tournament