

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 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.



Jyothi Engineering College

Reaccredited with NAAC (Grade A)

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

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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 endeavours.
- 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.

IN THIS ISSUE

Python Bridge Course — 25 June to 15 July 2024
National Workshop on Flutter App Development — 24–28 June 2024
META HUB Boot Camp — 21 August 2024

Web Development Boot Camp — 10 September 2024
Cybersecurity Workshop — 30 September 2024
AR/VR Workshop, Idea Ignite and the semester's achievements

A Note from the HoD...

Welcome to **Issue 05** of the Artificial Intelligence and Data Science Department Newsletter. This semester the department worked on something less visible than a hackathon and more consequential: the floor beneath the syllabus.

It began in June with a **Python Bridge Course** for students who had not yet attended a class here, and ran through a **national workshop on Flutter**, the **META HUB** and **Web Development** boot camps, a **Cybersecurity workshop** on Zero Trust and ransomware defence, and an **AR/VR workshop** with hands-on sessions. The common thread is that each one assumed no prior knowledge and ended with the participant having built something.

Idea Ignite, run with AIDA as part of Tharang, drew more than a hundred and seventy participants around sustainability — renewable energy, waste management, water conservation and green technology — and shortlisted twenty-four teams.

The year also brought a result the whole department can take pride in: the **2020–2024 batch recorded the highest overall pass percentage in the college** in the May 2024 university examinations. That is the measure of four years of ordinary, unglamorous teaching, and it belongs to the faculty as much as to the students.

MR. BINEESH M
Head of the Department

Student Spotlight

Our students carried the department's name well beyond the campus this semester. **Devaprakash** won the **VFIESTA 3.0** competition; **Ajith Varghese**, **Shalvin Shabu**, **Abhiram** and **Dhanajay** earned the **Galactic Problem Solver** award at the **NASA Space Apps Challenge**.

Al Amthan (S5) won **gold in kata** and **silver in kumite** at the APJAKTU Interzone Karate Competition 2024–25, and **Adrija Pramod** and **Fathima Shifa** secured **second position** in the APJAKTU E-Zone Basketball tournament. **Mr. Bimal Roy** received the **Sunny Diamond Award** for best outgoing student.

Students are asked to send the editorial desk a line and a date whenever something happens — a competition, a certification, an internship, a workshop attended or conducted. Nothing needs polishing; it only needs to be sent.

THE SEMESTER AT A GLANCE

Date	Programme	Mode / Venue	Organised with
25 June – 15 July 2024	Python Bridge Course for first-year students	Online	Department of AI & DS
24–28 June 2024	National Workshop on Flutter App Development	Campus	CSI and ICT Kerala
21 August 2024	META HUB Boot Camp	Campus	Department of AI & DS
10 September 2024	Web Development Boot Camp	Campus	Department of AI & DS
30 September 2024	Cybersecurity Workshop	Campus	Department of AI & DS
2 October 2024	Idea Ignite at Tharang — 170+ participants	Campus	AIDA

NEWSLETTER

DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND DATA SCIENCE

IN THIS ISSUE

Python Bridge Course for the incoming first year

National Workshop on Flutter App Development with CSI and ICT Kerala

META HUB Boot Camp and the **Web Development Boot Camp**

Cybersecurity Workshop — Zero Trust, ransomware and phishing

AR/VR Workshop with TinkerHub, IEDC, AIDA and IIC

Idea Ignite at Tharang · achievements and result toppers

THE SEMESTER IN NUMBERS

07 workshops, boot camps and courses conducted between June and December 2024.

170+ participants at Idea Ignite, with 24 teams shortlisted.

05 partner bodies — CSI, ICT Kerala, TinkerHub, IEDC and IIC.

01 batch — 2020–2024 — with the highest overall pass percentage in the college.

DEPARTMENT HIGHLIGHTS

Python Bridge Course

The department organised an online **Python Bridge Course** from **25 June to 15 July 2024**, giving first-year students a hands-on introduction to Python before their first formal class. A bridge course of this kind levels a cohort that arrives with very different amounts of prior exposure.



The Python Bridge Course — June–July 2024.

National Workshop on Flutter App Development

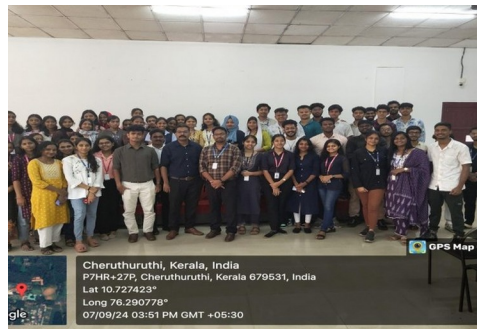
In association with **CSI and ICT Kerala**, the department organised a **National Workshop on Flutter App Development** from **24 to 28 June 2024**, equipping participants with practical skills in building mobile applications.



The five-day national workshop on Flutter — June 2024.

META HUB Boot Camp

The **META HUB Boot Camp** was held on **21 August 2024**, with hands-on sessions and expert talks aimed at closing the distance between academics and industry. It was inaugurated by **Mr. Bineesh M**, Head of the Department.



A full hall at one of the semester's boot camps.

Web Development Boot Camp

A **Web Development Boot Camp** was held on **10 September 2024**, inaugurated by **Mr. Bineesh M**, to give students practical exposure to current web technologies.

Cybersecurity Workshop

A **Cybersecurity Workshop** was held on **30 September 2024**, focused on **Zero Trust architecture**, ransomware defence and phishing prevention. Participants worked collaboratively through the material with printed booklets to take away.



The Cybersecurity Workshop — 30 September 2024.

AR/VR Workshop and Idea Ignite

An **AR/VR Workshop** was held with **TinkerHub, IEDC, AIDA and IIC**, where **Mr. Shijo John** guided students through hands-on sessions in augmented and virtual reality. On **2 October**, the department and AIDA organised **Idea Ignite** as part of Tharang, drawing **more than 170 participants** and shortlisting **24 teams** around sustainability — renewable energy, waste management, water conservation and green technology.

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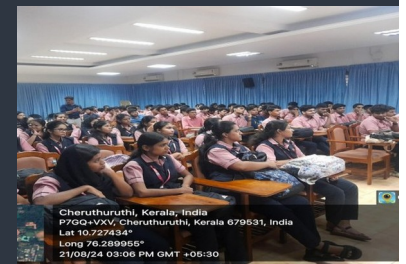
ACADEMIC YEAR 2024 - 2025

PARTNERS THIS SEMESTER

CSI and ICT Kerala — National Workshop on Flutter App Development.

TinkerHub, IEDC, AIDA and IIC — AR/VR workshop, led by **Mr. Shijo John**.

AIDA — Idea Ignite at Tharang.



IDEA IGNITE

170+ participants · **24 teams** shortlisted · themes in renewable energy, waste management, water conservation and green technology.

ACHIEVEMENTS, RESULTS & PUBLICATIONS

Student Achievements

- **Mr. Bimal Roy** received the **Sunny Diamond Award** for best outgoing student.
- **Devaprakash** won the **VFIESTA 3.0** competition.
- **Ajith Varghese, Shalvin Shabu, Abhiram and Dhanajay** earned the **Galactic Problem Solver** award at the **NASA Space Apps Challenge**.
- **Al Amthan (S5)** won **gold in kata** and **silver in kumite** at the **APJAKTU Interzone Karate Competition 2024-25**.
- **Adrija Pramod and Fathima Shifa** secured **second position** in the **APJAKTU E-Zone Basketball** tournament.
- The **2020-2024 batch** achieved the **highest overall pass percentage** of any batch in the college in the university examinations held in May 2024.



Al Amthan — gold in kata, silver in kumite.

University Result Toppers

Semester	Toppers
S2	Rosmila K T (10) · Keerthi K (9.33) · Mohammed Abid Ummer (9.0)
S4	Krishnendu U N (8.91) · Prithvishankar Menon (8.86) · Ajith Varghese (8.41)
S6	Aparna Joseph (8.52) · Nandana Anand (8.43) · Bhagyalakshmi Saburaj (8.26)
S8	Chandini T S (9.21) · Femi Rosh (9.03) · Sandra M (8.76)

Faculty Paper Publications

- **Dr. Anoop V** — "Dynamic Task Offloading for Resource Allocation and Privacy Preservation in KubEdge Computing Using Machine Learning", Cluster Computing (Springer, SCIE), March 2024.
- **Ms. Seenia Francis** — "Prior-guided generative adversarial network for mammogram synthesis", Biomedical Signal Processing and Control 87 (2024): 105456.

Faculty Achievements

- **Ms. Seenia Francis** received **KTU PhD Guideship**.
- **Dr. Anoop V, Mr. Bineesh M, Ms. Parvathy Jyothi, Mr. Jayakrishnan and Ms. Anjali O** completed **NPTEL MOOC** courses.
- **Mr. Bineesh M** 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 on the **Project Evaluation Committee for Yukthi 2024** and chaired the **AI & ML session** at **AREIS 2024**.

EDITORIAL BOARD

Staff Editor: Ms. Nikhitha N, Assistant Professor

Student Editor: Sneha Paul

Department of Artificial Intelligence and Data Science

NEWSLETTER

ACADEMIC YEAR 2024 - 2025

ACHIEVEMENTS AT A GLANCE

Sunny Diamond Award — Bimal Roy, best outgoing student.

NASA Space Apps Challenge — Galactic Problem Solver award.

VFIESTA 3.0 — won by Devaprakash.

APJAKTU Interzone Karate — gold and silver, Al Amthan (S5).



The 2020-2024 batch recorded the college's highest overall pass percentage in May 2024.

EDITORIAL BOARD

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Student Editor — Sneha Paul

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