

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.



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

Idea Sparkles 2.0 — 21 & 25 July 2025

EUREKA 2.0 Idea Pitching Competition — 23 August 2025

Two-Day Technical Session on Robotics — 10 & 11 September 2025

Pathway to a Software Development Career — 20 September 2025

GATE Examination Orientation — 5 December 2025

Cloud & AI: The Future of Backend — 18 December 2025

A Note from the HoD...

It gives me great pleasure to place before you the **7th Issue** of the Artificial Intelligence and Data Science Department Newsletter, covering the odd semester of the academic year **2025–2026**. This is the first issue to appear after Jyothi Engineering College took up **autonomous status**, and the freedom that autonomy brings is already visible in the pages that follow.

The months from July to December 2025 were unusually busy. Our students ran an idea-pitching competition with the Entrepreneurship Cell, sat through two full days of robotics with an industry practitioner, and met engineers from Tesco and from the wider software industry who spoke plainly about what the profession expects. A GATE orientation session opened a door that many of our students had not seriously considered before.

What pleases me most is not the number of events but their character. Almost every one of them put students in front of working hardware, working code or working professionals, rather than in front of slides. That is the kind of exposure a young department needs, and I thank the faculty coordinators and the AIDA student committee who made each of these happen alongside their regular work.

As we move into the even semester, our focus remains on depth: fewer, better, and more demanding activities, with our students doing the organising. I hope you enjoy this issue.

MR. SHINE P XAVIER
Head of the Department

Student Spotlight

This issue belongs to the students who ran it. **Aleena Johnson (S5 AD)** trained sixty-three students from the Electronics and Electrical departments in circuit design and 3D modelling as part of **Idea Sparkles 2.0** — a student of this department teaching students of others, which is exactly the direction we want this to go.

The **EUREKA 2.0** idea-pitching competition, run by the Entrepreneurship Cell in collaboration with **AIDA** and **CSI**, drew fifty-six participants and was organised end to end by students, from the budget to the prize pool. The **AIDA** committee also arranged the online expert session with Tesco in December, which drew a large evening audience at a time of year when attention is hard to win.

Behind each item in the highlights that follow is a group of students who wrote to a speaker, booked a lab, chased registrations and stayed back to clear up. The newsletter records the events; it is worth remembering that it also records the work.

THE SEMESTER AT A GLANCE

Date	Programme	Venue / Mode	Resource person or partner
21 & 25 July 2025	Idea Sparkles 2.0 — Innovation Orientation	Simulation Lab	IIIC
23 August 2025	EUREKA 2.0 — Idea Pitching Competition	IIIC	E-Cell with AIDA and CSI
10 & 11 September 2025	Two-Day Technical Session on Robotics	WAB 405	Mr. Navaneeth Nalesh, AIRO3D
20 September 2025	Pathway to a Software Development Career	Decennial Hall	Er. Jose Johnson
5 December 2025	GATE Examination Orientation	Decennial Hall	Manifold
18 December 2025	Cloud & AI: The Future of Backend	Online	Ms. Kavisha M, Tesco

NEWSLETTER

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

IN THIS ISSUE

Idea Sparkles 2.0 — innovation orientation, July 2025

EUREKA 2.0 — idea pitching competition, August 2025

Two-Day Technical Session on Robotics — September 2025

Pathway to a Software Development Career — September 2025

GATE Orientation Session — December 2025

Cloud & AI: The Future of Backend — December 2025

S3 KTU Examination Toppers — B Batch, 2024–2028

THE SEMESTER IN NUMBERS

06 departmental and association events conducted between July and December 2025.

04 external resource persons from industry and the start-up ecosystem.

02 hands-on hardware and AI workshops held in the department laboratories.

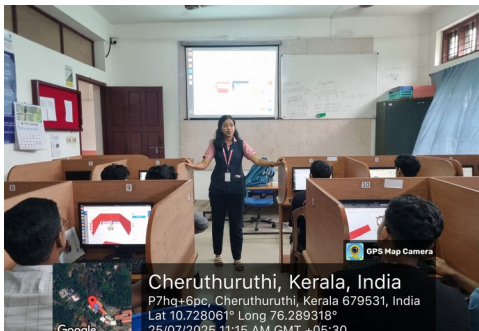


DEPARTMENT HIGHLIGHTS

Idea Sparkles 2.0 — Innovation Orientation

As part of the Idea Sparkles 2.0 initiative of the **Integrated Industrial Incubation Centre (IIIC)**, orientation sessions were conducted on **21 and 25 July 2025** at the Simulation Lab for the ECE and EEE batches. Sixty-three students attended.

The sessions covered the Tinkercad interface, LED blinking circuits, push-button control, Arduino-based circuit simulation, RGB colour mixing and an introduction to 3D design and modelling — all delivered hands-on. **Aleena Johnson (S5 AD)** of this department was among the participating trainers.



Idea Sparkles 2.0 — hands-on prototyping at the Simulation Lab.

EUREKA 2.0 — Idea Pitching Competition

The **Entrepreneurship Cell (E-Cell)** of Jyothi Engineering College, in collaboration with **AIDA** and **CSI**, organised the EUREKA 2.0 idea-pitching competition on **23 August 2025** at the IIIC. Fifty-six students registered and pitched before a panel, competing for a prize pool of ₹3,000 across three places.

The competition was funded entirely from within the campus — a ₹50 registration fee from each participant and a contribution from the professional body — and was planned and budgeted by the E-Cell campus ambassador team rather than by the faculty.

Opening a pitching competition to every branch has a second effect that is easy to miss: it puts our students in a room with people who think about the same problem differently, which is the nearest thing to an industry review that a campus can arrange.

Two-Day Technical Session on Robotics

The department organised a two-day technical session on **Robotics** exclusively for S5 AD students on **10 and 11 September 2025** at WAB 405. The session was handled by **Mr. Navaneeth Nalesh**, Founder and Director of **AIRO3D**, and coordinated by **Ms. Anjali O**, Assistant Professor.

Day one moved from idea generation to tooling: 3D modelling in Tinkercad, Fusion 360 and SolidWorks; design in Figma; brainstorming in Stormboard and Miro; YOLO and Teachable Machine for AI applications; and simulation of LED circuits, followed by voltage measurement with a multimeter.

Day two was project work. Students built a traffic-light simulation in Tinkercad and then implemented it physically on an **Arduino Uno**, synchronised a buzzer with the lights, added a servo motor to model a railway gate, and worked through the behaviour of an IR sensor.



The robotics session in WAB 405, led by Mr. Navaneeth Nalesh.

In the feedback collected at the close, participants said the exposure to hardware and electronics — unfamiliar territory for an AI & DS batch — was the most valuable part of the two days.

NEWSLETTER

ODD SEMESTER · JULY - DECEMBER 2025

RESOURCE PERSONS

Mr. Navaneeth Nalesh — Founder and Director, AIRO3D. Two-Day Technical Session on Robotics.

Er. Jose Johnson — Senior Business Development Manager. Pathway to a Software Development Career.

Ms. Kavisha M — Software Development Engineer, Tesco. Cloud & AI: The Future of Backend.

Manifold — GATE training partner under an MoU with JECC. GATE orientation session.



ASSOCIATION

AIDA, the students' association of the Department of Artificial Intelligence and Data Science, organised or co-organised most of the activities recorded in this issue, working alongside the E-Cell, CSI and the IIIC.

DEPARTMENT HIGHLIGHTS

Pathway to a Software Development Career

On **20 September 2025**, the department, in association with AIDA, hosted a session titled **Pathway to Software Development Career** at the **Decennial Hall** from 11:45 a.m. to 12:45 p.m. The speaker was **Er. Jose Johnson**, Senior Business Development Manager, who spoke about insights, experiences and opportunities in software development.



The session poster.

Orientation Session on the GATE Examination

An orientation session on the **Graduate Aptitude Test in Engineering (GATE)** was held on **5 December 2025** from 2:00 to 4:00 p.m. at the Decennial Hall, delivered by **Manifold**, an organisation that has signed an MoU with the college for GATE training and academic support.

The session was aimed at Semester 4 students of the department. Of an expected ninety-two, **eighty-five attended**. It covered the exam pattern, syllabus and marking scheme, preparation strategy and time management, and the study material and practice resources available, and was proposed by **Mr. Jayakrishnan A**, Assistant Professor.



The GATE orientation session at the Decennial Hall.

Cloud & AI: The Future of Backend

AIDA organised an online technical session titled **Cloud & AI: The Future of Backend** on **18 December 2025** from 8:00 to 9:00 p.m. via Google Meet. The speaker was **Ms. Kavisha M**, Software Development Engineer at **Tesco**, whose work centres on Java, Spring, cloud platforms and scalable backend architectures.

The session covered the integration of AI with cloud-based backend systems, the future scope of backend development, what industry expects of a fresher, and the routes into cloud and backend roles. It ran as a conversation rather than a lecture — students asked questions throughout — and e-certificates were issued to all registered participants.



Cloud & AI: The Future of Backend — 18 December 2025.

NEWSLETTER

ODD SEMESTER · JULY - DECEMBER 2025

AT A GLANCE

63 students trained in circuit design and 3D modelling under Idea Sparkles 2.0.

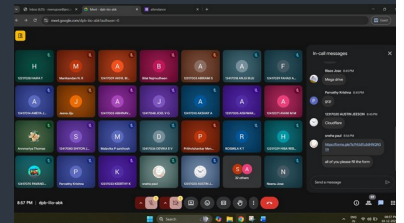
56 participants in the EUREKA 2.0 idea-pitching competition.

85 students attended the GATE orientation session, against an expected ninety-two.

2 full days of hands-on robotics for the S5 AD batch.

TOOLS STUDENTS MET

Tinkercad · Fusion 360 · SolidWorks · Figma · Stormboard · Miro · YOLO · Teachable Machine · Arduino Uno · Java and Spring · cloud platforms



The December expert session ran online and drew a large evening audience.

STUDENT ACHIEVEMENTS

S3 KTU Examination Toppers — B Batch (2024–2028)

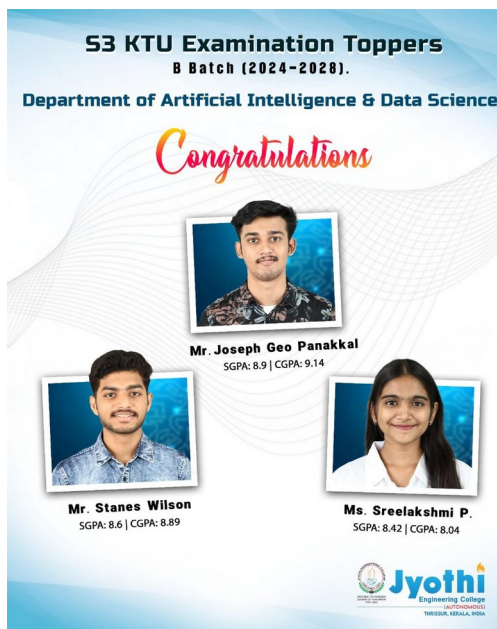
The department congratulates the toppers of the S3 KTU examinations from the B batch of the 2024–2028 cohort:

- **Mr. Joseph Geo Panakkal** — SGPA 8.9, CGPA 9.14
- **Mr. Stanes Wilson** — SGPA 8.6, CGPA 8.89
- **Ms. Sreelakshmi P.** — SGPA 8.42, CGPA 8.04

Consistency at this stage matters more than any single result, and all three have held their position across successive semesters.

Students as trainers

Aleena Johnson (S5 AD) served as a participating trainer for the Idea Sparkles 2.0 orientation sessions conducted by the IIIC for the ECE and EEE batches, taking sixty-three students through circuit design and 3D modelling.



S3 KTU examination toppers, B batch (2024–2028).

Student-led organisation

The AIDA student committee planned and ran the expert sessions of this semester end to end — approaching speakers, arranging the venue or the meeting link, handling registration and issuing certificates. The E-Cell campus ambassador team prepared the EUREKA 2.0 budget and prize structure and secured the professional-body contribution that funded it.

Reaching beyond the department

EUREKA 2.0 was open across branches, and the Idea Sparkles orientation took students of this department into the Electronics and Electrical batches as trainers. Both are early signs of our students working outside their own cohort — the habit this newsletter would most like to report more of in the issues to come.

A note on this section

Student achievements are recorded here from what reaches the department office. Certificates, competition results, internships, publications and placements are all welcome, and a line and a date are enough. Anything sent after this issue went to press will appear in the next one.

NEWSLETTER

ODD SEMESTER · JULY –
DECEMBER 2025

UNIVERSITY RESULT TOPPERS

S3 — B Batch (2024–2028)

Joseph Geo Panakkal · SGPA 8.9

Stanes Wilson · SGPA 8.6

Sreelakshmi P. · SGPA 8.42

LOOKING AHEAD

The even semester opens with a one-day technical bootcamp on **Agentic AI** and the department's first national-level hackathon, **YODHA: Warriors of AI**, both in January 2026 — reported in the next issue.

FROM THE DEPARTMENT

A first semester under autonomy

Jyothi Engineering College now functions as an autonomous institution, which means the curriculum our students follow and the pace at which new subjects enter the classroom are decided here rather than on an external cycle. For a department working in a field that changes between one semester and the next, that is not an administrative detail.

The practical effect over these six months has been a willingness to bring outside practitioners into the timetable at short notice — a robotics founder, a backend engineer from Tesco, a business development manager who recruits for a living — and to let students organise around them.

Laboratories and hardware

Two of this semester's programmes were built around hardware the department maintains: the Simulation Lab, where the Idea Sparkles sessions ran, and WAB 405, where the robotics session put Arduino boards, servo motors, buzzers and IR sensors into the hands of an AI & DS batch for the first time.

Collaborations

Activity this semester ran across four partnerships: the **Integrated Industrial Incubation Centre (IIIC)** for the innovation orientation; the **Entrepreneurship Cell** and **CSI** for EUREKA 2.0; **AIRO3D** for the robotics session; and **Manifold**, under an MoU with the college, for GATE training.

A word of thanks

The department records its thanks to the faculty coordinators who carried these programmes alongside a full teaching load, to the AIDA committee and the E-Cell campus ambassadors, and to every resource person who gave time to our students.

Write for the newsletter

This newsletter is assembled from what the department actually does, and it is only as complete as the reports that reach the editorial desk. Faculty and students are asked to send a short note, the date and a photograph within a week of any event, workshop, competition, publication or award. Nothing needs to be polished; it only needs to be sent.

EDITORIAL BOARD

Staff Editor: Ms. Anjali O, Assistant Professor

Student Editor: Aneesh V

Department of Artificial Intelligence and Data Science

NEWSLETTER

ODD SEMESTER · JULY -
DECEMBER 2025

EVENTS AT A GLANCE

21 & 25 July 2025 — Idea Sparkles 2.0, Simulation Lab

23 August 2025 — EUREKA 2.0, IIIC

10 & 11 September 2025 — Two-Day Technical Session on Robotics, WAB 405

20 September 2025 — Pathway to a Software Development Career, Decennial Hall

5 December 2025 — GATE Orientation Session, Decennial Hall

18 December 2025 — Cloud & AI: The Future of Backend, online

EDITORIAL BOARD

Staff Editor — Ms. Anjali O, Assistant Professor

Student Editor — Aneesh V

CONTACT

Department of Artificial Intelligence and Data Science, Jyothi Engineering College (Autonomous), Cheruthuruthy, Thrissur — 679531

info@jecc.ac.in · www.jecc.ac.in