

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.

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VR-CADE at Tharang 2023 2.0 — 10–11 November 2023

Introduction to Reinforcement Learning — 4 December 2023
Inauguration of AIDA with a talk on RPA — 8 December 2023
Student, faculty and placement news

A Note from the HoD...

Welcome to **Issue 03** of the Artificial Intelligence and Data Science Department Newsletter. If the first year of this publication was about establishing that the department had something to report, this issue is about the department acquiring a platform of its own.

On **8 December 2023** we inaugurated **AIDA**, the Artificial Intelligence and Data Science Association. A students' association is not a ceremony; it is a standing mechanism by which students can invite a speaker, book a hall and run a programme without waiting to be asked. Everything this department does from here will be easier for its existence.

The semester's programmes were deliberately varied — an **AI/Metaverse workshop** carrying STEM.org certification, a **LaTeX** session for academic writing, **VR-CADE** at Tharang, an online lecture on **reinforcement learning** by an alumna now researching at NIT Calicut, and a technical talk on **RPA** by a practitioner from Tech Mahindra. Between them they covered the tools, the writing, the research and the industry side of the same discipline.

Eight students of S7 were placed this semester, and three earned NPTEL Elite certificates. Those two lines together say more about where this department is going than any amount of description.

MR. BINEESH M
Head of the Department

Student Spotlight

The semester's results belong to students who went looking for competition. **Avanthika (S7)** took part in the 24-hour national hackathon **CodeX'23** at SWASTHIKA'23. **Bimal Roy** and **Sandra M (S7)** were selected among the **top fifteen finalists** of the *AI Hackathon for Plastic-Free Rivers*, run by REVA University with Kyndryl, Bengaluru.

Vinaya A, Varsha I. K. and Ranjini K (S7) attended a workshop on cybersecurity and ethical hacking organised by Techmaghi, and **John Davis, Reshma K. R. and Sachin Raj (S5)** earned **Elite certificates** in the NPTEL course *Introduction to Machine Learning* from IIT Kharagpur.

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	Venue / Mode	Resource person
28 October 2023	AI/Metaverse Workshop (STEM.org certified)	Decennial Hall	Akhila R Gomez, Unique World Robotics
2 November 2023	Introduction to LaTeX — NDLI Club	Computer Centre Lab 2	Dr. Seenia Francis
10–11 November 2023	VR-CADE at Tharang 2023 2.0	Campus	Department of AI & DS
4 December 2023	Introduction to Reinforcement Learning	Online	Ms. Arathy Menon, NIT Calicut
8 December 2023	Inauguration of AIDA · Technical talk on RPA	Decennial Hall	Mr. Rahul Unnikrishnan, Tech Mahindra

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DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND DATA SCIENCE

IN THIS ISSUE

AI/Metaverse Workshop with STEM.org certification

Introduction to LaTeX — NDLI Club session

VR-CADE at Tharang 2023 2.0

Introduction to Reinforcement Learning — online lecture

Inauguration of AIDA and a technical talk on RPA

Achievements, placements and result toppers

THE SEMESTER IN NUMBERS

05 departmental programmes conducted between October and December 2023.

08 students of S7 AD placed during the semester.

03 students earned NPTEL Elite certificates from IIT Kharagpur.

01 new students' association — AIDA — inaugurated on 8 December 2023.

DEPARTMENT HIGHLIGHTS

AI/Metaverse Workshop

The department hosted an **AI/Metaverse Workshop** on **28 October 2023** at the Decennial Hall, from 9:30 a.m. to 12:30 p.m. The session was led by **Akhila R Gomez**, Head of Academic Innovations at Unique World Robotics, and carried **STEM.org certification** — an external credential our students could take away with them.



The AI/Metaverse Workshop poster — 28 October 2023.

Introduction to LaTeX

The **NDLI Club**, in association with the department, organised an *Introduction to LaTeX* session led by **Dr. Seenia Francis** on **2 November 2023** from 2:30 to 4:00 p.m. at Computer Centre Lab 2. The workshop gave students the typesetting skills that academic writing assumes and rarely teaches.

VR-CADE at Tharang 2023 2.0

The department presented **VR-CADE**, an immersive VR gaming experience, under the theme *Game On! Where Reality Meets Pixels*. Held as part of **Tharang 2023 2.0** on **10 and 11 November**, it showcased current virtual-reality gameplay and interactive environments and drew enthusiastic participation from students and visitors alike.



Introduction to LaTeX — 2 November 2023.

Introduction to Reinforcement Learning

The department, with the Jyothi Engineering College Alumni Association and the AD Students Association, conducted an online lecture on **Introduction to Reinforcement Learning** on **4 December 2023** at 2:00 p.m. It was led by **Ms. Arathy Menon**, Research Scholar at NIT Calicut and an alumna of the 2007 CSE batch, and covered both the fundamentals and the applications of the field.

Inauguration of AIDA · Technical talk on RPA

The **Artificial Intelligence and Data Science Association (AIDA)** was inaugurated on **8 December 2023** at the Decennial Hall. As part of the event, **Mr. Rahul Unnikrishnan**, RPA Specialist at Tech Mahindra, delivered a technical talk on **RPA (UiPath)**, giving students a view of automation workflows as they are actually built and deployed.



The AIDA inauguration poster — 8 December 2023.

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ACADEMIC YEAR 2023 - 2024

RESOURCE PERSONS

Akhila R Gomez — Head of Academic Innovations, Unique World Robotics. AI/Metaverse workshop.

Dr. Seenia Francis — Associate Professor, AI & DS. Introduction to LaTeX.

Ms. Arathy Menon — Research Scholar, NIT Calicut; JECC alumna (CSE 2007). Reinforcement learning.

Mr. Rahul Unnikrishnan — RPA Specialist, Tech Mahindra. RPA (UiPath).



ORGANISED WITH

NDLI Club · JECC Alumni Association · AD Students Association · AIDA

ACHIEVEMENTS, PLACEMENTS & RESULTS

Student Achievements

- **Avanthika (S7)** took part in **CodeX'23**, a 24-hour national hackathon organised as part of SWASTHIKA'23.
- **Bimal Roy** and **Sandra M (S7)** were selected among the **top 15 finalists** of the *AI Hackathon for Plastic-Free Rivers*, conducted by REVA University with Kyndryl, Bengaluru.
- **Vinaya A, Varsha I. K.** and **Ranjini K (S7)** attended a workshop on Cybersecurity and Ethical Hacking organised by Techmaghi.
- **John Davis, Reshma K. R.** and **Sachin Raj (S5)** earned **Elite certificates** in the NPTEL course *Introduction to Machine Learning*, IIT Kharagpur.

Placements

Akarsh K Das, Akash V A, Aliya Siraj, Ardra M A, Bimal Roy, Josten S Cheeran and Nikhitha Joy of S7 AD were placed at **UST**. **Ebin C Zeby** was placed at **Mitsogo Technologies Pvt. Ltd.**

University Result Toppers

Semester	Toppers
S2	Liya M (9.45) · Krishnendu U N (9.43) · Prithvishankar Menon (9.38)
S4	Aparna Joseph (8.95) · John Davis (8.27) · Sachin Raj M (8.23)
S6	Chandhini T S (9.26) · Ardhra M A (8.93) · Femi Rosh (8.91) · Divya Pillai (8.55)

Faculty Achievements

- **Dr. Anoop V** published *Automated biomedical image classification using multi-scale dense dilated semi-supervised U-Net with CNN architecture*.
- **Parvathy Jyothi** earned an Elite + Silver certificate in the NPTEL course *Introduction to Machine Learning*, IIT Kharagpur.
- **Anjali O** attended the FDP on Blockchain and Security in Computing, 14–19 August 2023, at Sree Narayana Gurukulam College of Engineering.
- **Bineesh M** attended the FDP on Outcome Based Education and Essential AI Tools for Teachers, 10–18 August 2023.
- **Seenia Francis** participated in the Workshop and FDP on Natural Language Processing — Foundation, 7–12 August 2023.

EDITORIAL BOARD

Staff Editor: Mr. Jayakrishnan A, Assistant Professor

Student Editor: Naveen Wilson

Department of Artificial Intelligence and Data Science

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ACADEMIC YEAR 2023 – 2024

PLACEMENTS

UST — Akarsh K Das, Akash V A, Aliya Siraj, Ardra M A, Bimal Roy, Josten S Cheeran, Nikhitha Joy (S7 AD)

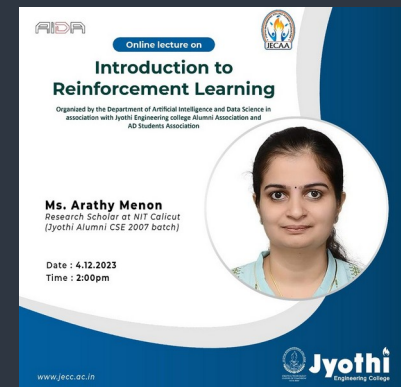
Mitsogo Technologies — Ebin C Zeby

RESULT TOPPERS

S2 — Liya M (9.45)

S4 — Aparna Joseph (8.95)

S6 — Chandhini T S (9.26)



EDITORIAL BOARD

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Student Editor — Naveen Wilson

CONTACT

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

info@jecc.ac.in · www.jecc.ac.in