DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER & MAGAZINE

NOVEMBER -2025

R & D CELL EVENTS

Orientation Program on "Advancing Research Integrity: Ethics, Funding and Global Best Practices"

We are pleased to share that the Orientation Program on "Advancing Research Integrity: Ethics, Funding and Global Best Practices" was successfully conducted, bringing together researchers,faculty, and students for an enriching and insightful learning experience. The program aimed to strengthen awareness of ethical research practices, enhance understanding of responsible funding processes, and introduce globally recognized standards that foster integrity in scholarly work. **Program Highlights**

Ethics and Responsible Research Conduct

· Participants engaged in interactive sessions on ethical principles, authorship responsibilities,
· plagiarism prevention, data integrity, and responsible collaboration. The discussions emphasized
· the importance of maintaining transparency and accountability throughout the research lifecycle.

Research Funding and Compliance

· Experts provided valuable guidance on identifying credible funding opportunities, preparing
· compliant proposals, and managing grants ethically. The session highlighted common pitfalls
· and best practices for ensuring funding transparency and regulatory adherence.

Global Best Practices in Research Integrity

· The program showcased international frameworks and exemplary institutional models that
· uphold high standards of research integrity. Participants explored how global policies can be
· adapted within local research environments to promote credibility and trust.

EVENT PICS

Sirumangadu, Tamil Nadu, India 🇮🇳
Vvqg+q43, Sirumangadu, Tamil Nadu 631604, India
Lat 12.889142° Long 79.874388°
Wednesday, 26/11/2025 09:14 AM GMT +05:30

Sirumangadu, Tamil Nadu, India 🇮🇳
Vvqg+q43, Sirumangadu, Tamil Nadu 631604, India
Lat 12.889166° Long 79.874381°
Wednesday, 26/11/2025 09:14 AM GMT +05:30

SEMINAR - To Convert A Strong Manufacturing Technology Idea Into Start-up

The seminar on "To Convert a Strong Manufacturing Technology Idea Into a Start-up" aims to equip participants with the essential knowledge and skills needed to transform innovative manufacturing concepts into successful entrepreneurial ventures. It focuses on helping attendees validate their ideas against real market needs, develop strong business models, and understand the processes of prototyping and technology commercialization.

The program also provides guidance on securing funding, engaging with investors, and navigating the legal steps of forming a startup. Additionally, participants learn strategies for scaling their manufacturing-based businesses, including effective production planning and supply chain management, ensuring they are prepared to take their ideas from concept to a viable, competitive enterprise.

EVENT PICS

Kancheepuram,Tamil Nadu,India 🇮🇳
Kunam, Sungavarchetrum, Kancheepuram, Tamil Nadu , India
Lat 12.889525, Long 79.873974
Saturday, 29/11/2025 13:52 GMT+05:30
Note : Captured by GPS Map Camera

Kancheepuram,Tamil Nadu,India 🇮🇳
Kunam, Sungavarchetrum, Kancheepuram, Tamil Nadu , India
Lat 12.889525, Long 79.873974
Saturday, 29/11/2025 14:40 GMT+05:30
Note : Captured by GPS Map Camera

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

NEWS LETTER

NOVEMBER -2025

The Department of Artificial Intelligence and Data Science, Jeppiaar Institute of Technology, organized a Workshop on Data Analytics on November 26th, 2025, from 2:00 PM to 3:15 PM in online mode. The resource person for the event was Ms. Elamathi R, Junior Policy Fellow from the Policy Analytics Insights Unit – OPSA, IISc Bangalore. The session focused on the importance of data analytics in decision-making, analytical frameworks, and real-world applications across various domains.
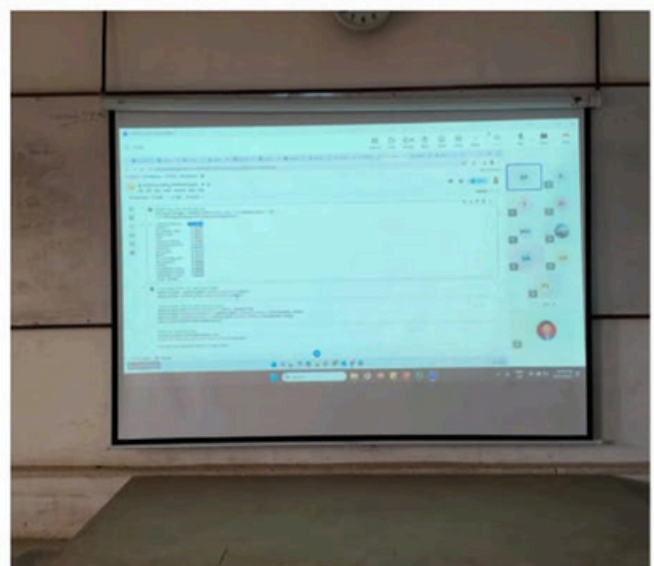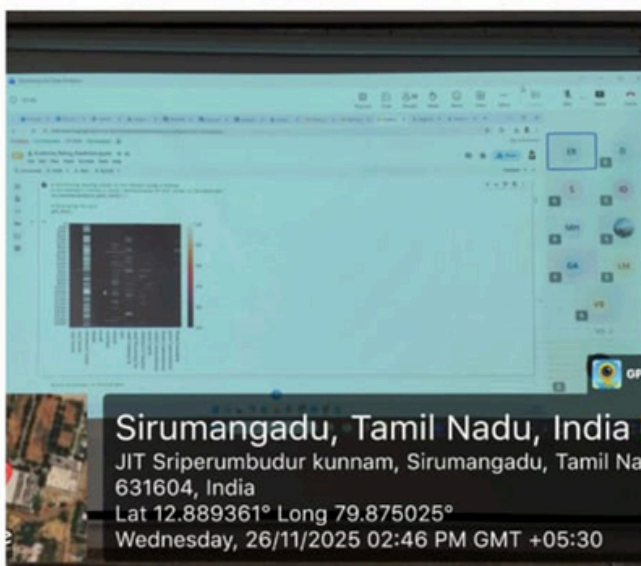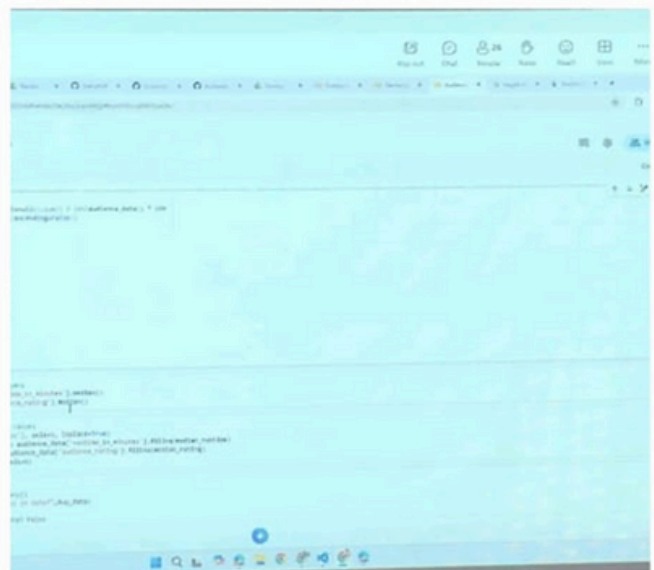
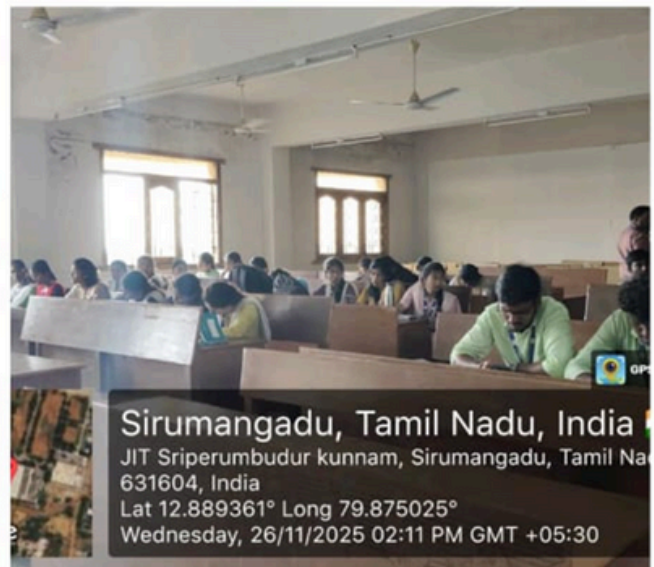The Department of Artificial Intelligence and Data Science at Jeppiaar Institute of Technology conducted a Seminar on Recent Technologies in AI: LangChain, LangSmith, LangGraph & RAG for Real-World Applications on November 27th, 2025, from 10:00 AM to 11:00 AM, held in online mode.

The seminar was delivered by Ms. N. Naveena, Data Science Trainee at MResult Technologies Pvt. Ltd.
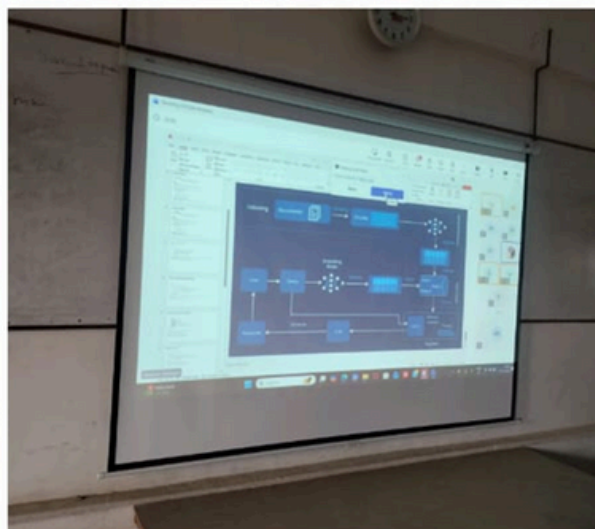
The session highlighted the rapidly evolving ecosystem of AI development frameworks and their role in building scalable and efficient real-world generative AI applications.

The Department of Artificial Intelligence and Data Science, Jeppiaar Institute of Technology, in association with JIT Connect Alumni Association, successfully organized a workshop titled "Empowering Learners with Future-Ready Cybersecurity and Innovation Skills" on November 29th, 2025 at Lecture Hall 28. The session was delivered by Ms. Sona Solmuthazhgan, Technical Project Manager, Auriseg Consult Pvt Ltd, Chennai.

The workshop focused on the growing importance of cybersecurity in the modern digital environment and the need for students to develop strong security awareness and hands-on expertise. The speaker shared real-time industry insights, case studies on cyber-attacks, secure coding practices, innovation challenges, and career guidance related to cybersecurity domains. Students were able to interact actively and gain clarity on emerging opportunities in the cyber and data protection field.
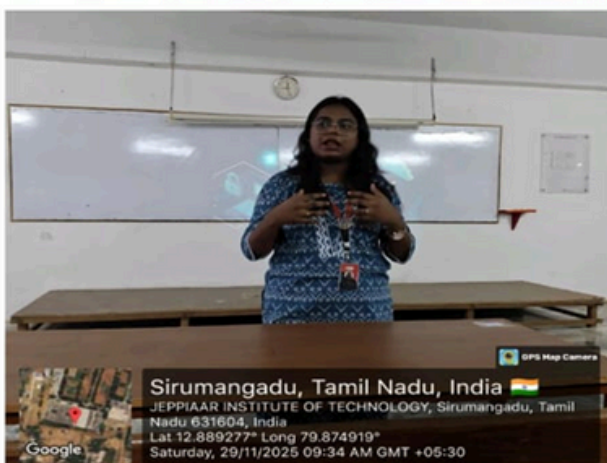
The Department of Artificial Intelligence and Data Science, Jeppiaar Institute of Technology conducted a workshop on "Resilience and Practice of Gratitude" on November 28th, 2025 at Lecture Hall 28. The session was delivered by Ms. K. Ramya, Clinical Psychologist, as the guest speaker.

The workshop aimed to enhance the emotional well-being of students by helping them understand the importance of resilience, mental strength, and gratitude practices in personal and academic life. The speaker explained practical approaches for dealing with stress, overcoming setbacks, and building a positive mindset. Through interactive activities and real-life examples, students learned how gratitude can improve emotional balance, relationships, and overall productivity.

The Department of Artificial Intelligence and Data Science, Jeppiaar Institute of Technology, successfully organized a workshop on "Innovative UI/UX Design for Real-World Applications" on November 29th, 2025, from 1:00 PM to 3:00 PM, conducted in offline mode. The session was delivered by Ms. J. Ashwini, Full Stack Developer, Approtech R&D Solution Pvt. Ltd., Chennai.

The workshop emphasized the importance of user-centered design, modern UI/UX methodologies, and creative techniques used in developing real-time digital products. The speaker explained the principles of visual design, wireframing, prototyping, usability testing, and responsive interface development. Real-world case studies and practical demonstrations enabled students to understand industry expectations and emerging trends in UI/UX.

V. Gopika Arasi
III – AI&DS

Building Essential Skills for the Future Workforce:

In today's fast-changing world, academic knowledge alone is not enough for students to succeed. The future workforce requires a combination of technical abilities and strong professional skills. As industries adopt advanced technologies such as artificial intelligence, automation, data analytics, and digital tools, the expectations from students are also evolving. Building essential skills early helps learners stay prepared, competitive, and confident in the job market. Modern workplaces rely heavily on technology. Students must be comfortable using computers, software tools, online platforms, and digital communication systems. Basic digital literacy forms the foundation for advanced skills like coding, data analysis, and AI applications.

Companies value employees who can analyze situations, think logically, and find solutions to complex problems. Developing critical thinking helps students understand issues deeply, evaluate options, and make informed decisions an essential skill for any profession. Clear communication both written and verbal is crucial in professional environments. Students must learn how to express ideas, present work, and interact effectively with teams. Collaboration skills help them work smoothly in group projects and future workplaces where teamwork is essential.

The future workforce will demand continuous upskilling. Technologies evolve quickly, and students must be adaptable and open to learning new tools and methods. Lifelong learning ensures long-term career growth. Employers look for individuals who show responsibility and leadership qualities. Skills such as decision-making, time management, and taking initiative help students stand out. Leadership at the student level, such as managing events or projects, builds confidence for future roles. Workplaces require people who can manage emotions, handle stress, and maintain positive relationships. High emotional intelligence helps in conflict resolution, teamwork, and maintaining a healthy work environment.