MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

A Report on

A Six-Day Online Faculty Development Program on "AI and Cybersecurity in the Digital Era: LLMs, Generative AI, E-Commerce Analytics and Federated Systems"

Organized by

Department of Computer Science and Engineering (Artificial Intelligence),
Madanapalle Institute of Technology & Science (MITS), Deemed to be University

Sponsored by

IEEE Robotics and Automation Society, MITS

Date: 09-March-2026 to 14-March-2026

Report Submitted by: Dr. Vamsi Bandi, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence)

Program Chair
Dr. C. Yuvaraj, Vice Chancellor (I/c)

Co - chairs
Dr. D. Pradeep Kumar, Registrar (I/c)
Dr. P. Ramanathan, Principal
Dr. C. Kamal Basha, Vice Principal Administration

Convenor
Dr. R. Kalpana, Professor & Head, Department of CSE (AI)

Co-ordinators
Dr. K. Chokkanathan, Associate Professor, Dept. of CSE (AI)
Dr. Vamsi Bandi, Assistant Professor, Dept. of CSE (AI)
Mr. K. Mahammad, Assistant Professor, Dept. of CSE (AI)

Total No. of Registrations: 125 participants

- For Faculty: E-Certificate provided as "FDP" Program
- For Students: E-Certificate provided as "Short Term Training Program"

Mode of Delivery: Online (Microsoft Teams)

About the FDP:

The **Faculty Development Program (FDP)** on "AI and Cybersecurity in the Digital Era: LLMs, Generative AI, E-Commerce Analytics and Federated Systems" was organized by the **Department of Computer Science and Engineering (Artificial Intelligence), Madanapalle Institute of Technology & Science (MITS)** from **09 March 2026 to 14 March 2026**.

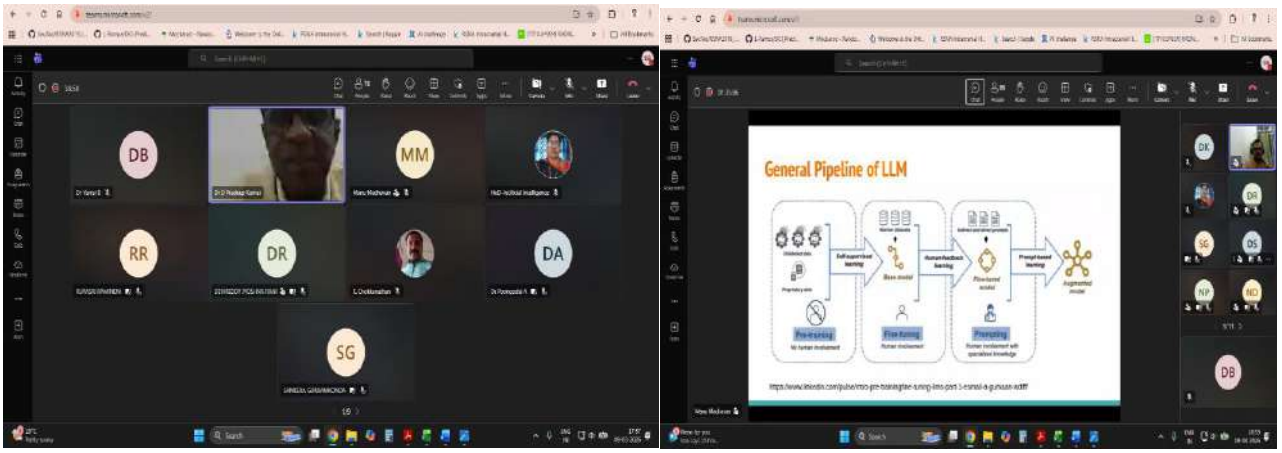
The FDP aimed to provide faculty members, research scholars, and students with **comprehensive knowledge of emerging technologies in Artificial Intelligence and Cybersecurity**. The program focused on **Large Language Models, Generative AI, Machine Learning in E-Commerce, Agentic AI, Cybersecurity, and Federated Learning**. Through expert sessions delivered by distinguished academicians from reputed institutions, the FDP created a platform for participants to gain insights into cutting-edge research trends and real-world AI applications.

Inaugural Session:

The FDP was inaugurated on **09 March 2026 at 5:30 PM** with a welcome address by **Dr. K. Chokkanathan, Associate Professor, Department of CSE (AI)**.

The inaugural session included addresses by **Dr. R. Kalpana, Professor & Head, Department of CSE (AI)**, **Dr. P. Ramanathan, Principal, MITS**, and **Dr. D. Pradeep Kumar, Registrar (I/c), MITS (DTBU)**.

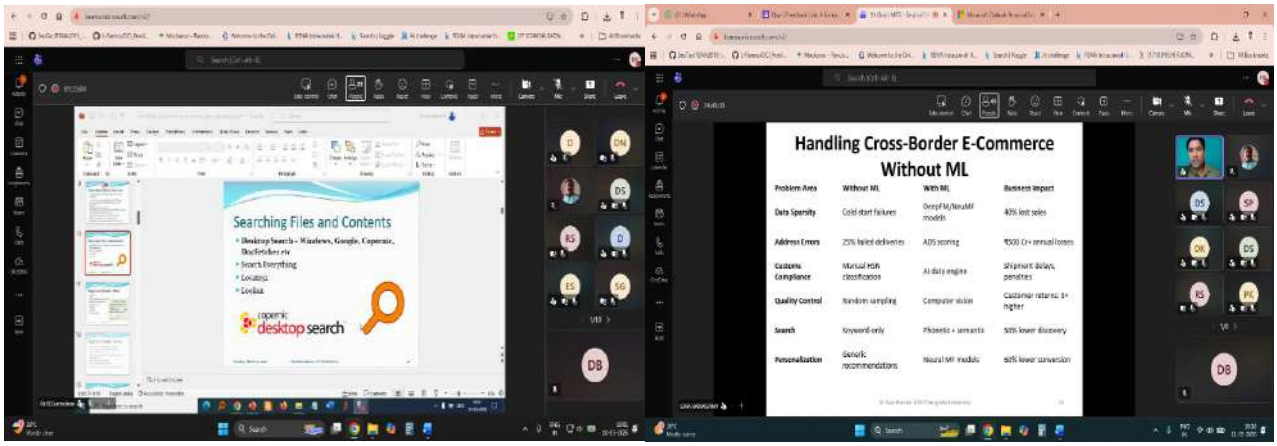
The speakers highlighted the importance of **Artificial Intelligence and Cybersecurity in modern digital systems**, emphasizing the need for faculty and students to stay updated with rapidly evolving AI technologies.



Day-Wise Session Details:

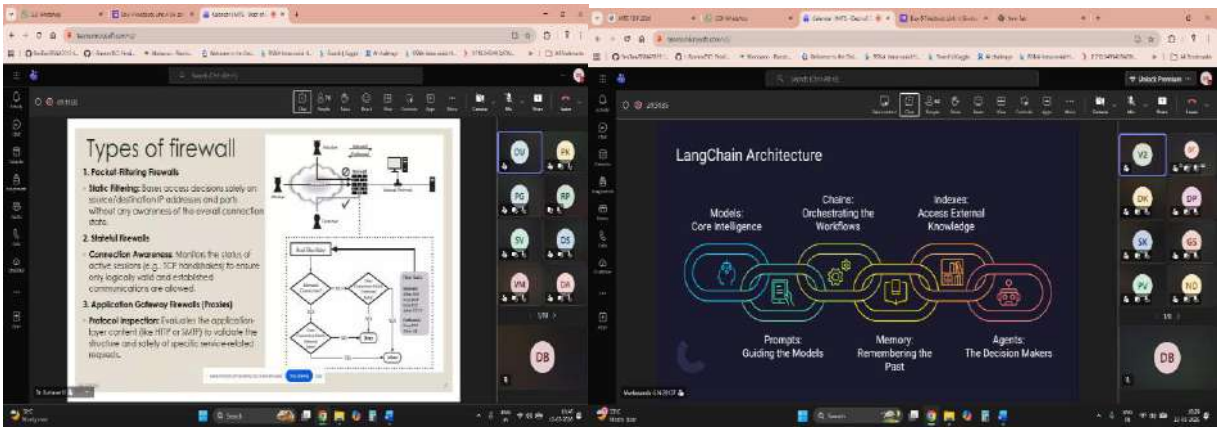
Day 1: 09-March-2026 (Monday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. Manu Madhavan**
Assistant Professor
Indian Institute of Information Technology Kottayam, Kerala, India
Topic: **Introduction to Large Language Models**
Dr. Manu Madhavan delivered an insightful session introducing the concepts of **Large Language Models (LLMs)** and their role in Natural Language Processing. The session covered the architecture of LLMs, transformer-based models, training mechanisms, and real-world applications such as chatbots, text summarization, and language translation. The speaker also discussed the significance of LLMs in modern AI research and industry applications. The session concluded with an interactive Q&A session.

Day 2: 10-March-2026 (Tuesday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. B. Surendiran**
Professor
Department of Computer Science and Engineering
National Institute of Technology Puducherry, Karaikal, India
Topic: **Generative AI**
Dr. B. Surendiran delivered an informative lecture on **Generative Artificial Intelligence**, discussing its architecture, methodologies, and real-world applications. The session explored generative models such as GANs and diffusion models and their impact on fields such as content creation, design, healthcare, and business analytics. Participants gained valuable insights into the rapid growth of generative AI technologies.



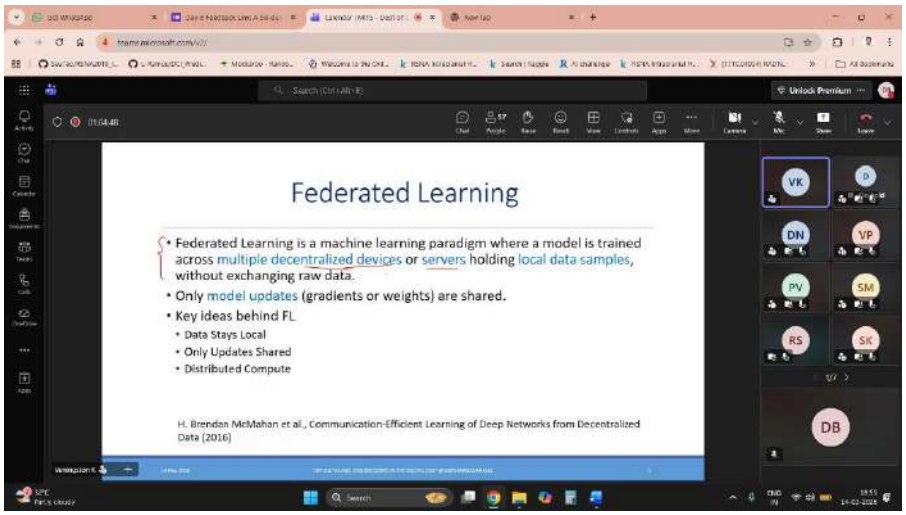
Day 3: 11-March-2026 (Wednesday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. Siva Shankar Ramasamy**
Professor
International College of Digital Innovation
Chiang Mai University, Thailand
Topic: **E-Commerce and Machine Learning**
Dr. Siva Shankar Ramasamy presented an engaging session on the role of **Machine Learning in E-Commerce systems**. The speaker discussed recommendation systems, customer behavior analytics, predictive modeling, and AI-driven business intelligence tools used in online commerce platforms. The session emphasized the importance of data analytics and AI for improving customer experience and business performance.

Day 4: 12-March-2026 (Thursday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. Kumaran U**
Assistant Professor (Selection Grade)
Department of Computer Science and Engineering
AIoT and Cybersecurity TAG Lead
Amrita School of Computing, Amrita Vishwa Vidyapeetham, Bengaluru
Topic: **Cybersecurity Essentials in Computing**
Dr. Kumaran U delivered an informative lecture on **Cybersecurity fundamentals in modern computing environments**. The session highlighted key concepts such as cyber threats, network security, encryption, privacy protection, and cybersecurity strategies required in AI-driven digital systems.



Day 5: 13-March-2026 (Friday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. G. N. Vivekananda**
Associate Professor Grade-1
School of Computer Science Engineering and Information Systems
VIT Vellore, India
Topic: **Agentic AI**
Dr. Vivekananda presented a session on **Agentic Artificial Intelligence**, focusing on intelligent autonomous agents capable of decision-making and problem solving. The speaker explained how agent-based AI systems are transforming modern AI applications in robotics, automation, and smart systems.

Day 6: 14-March-2026 (Saturday)
Time: 6:00 PM – 7:30 PM
Resource Person: **Dr. Veningston K**
Assistant Professor
Department of Computer Science and Engineering
National Institute of Technology Srinagar, India
Topic: **Federated Learning for Privacy-Preserving AI**
The final session was delivered by Dr. Veningston K on **Federated Learning**, a distributed machine learning approach that allows multiple organizations to collaboratively train models without sharing sensitive data. The session highlighted privacy-preserving techniques and the importance of secure AI development in modern digital systems.



Valedictory Session:
The FDP concluded with the **valedictory session on 14 March 2026**, where the organizing team expressed gratitude to the resource persons, participants, and the IEEE Robotics and Automation Society for supporting the event. The session ended with a **vote of thanks delivered by the organizing team**, acknowledging the contributions of speakers, management, faculty members, and participants.

FDP Outcomes:

• Participants gained knowledge of **emerging AI technologies including LLMs, Generative AI, Agentic AI, and Federated Learning**.
• The FDP enhanced awareness of **cybersecurity practices in modern computing systems**.
• Faculty members were able to update their **teaching methodologies and research directions** in AI-related domains.
• Participants learned about **AI applications in e-commerce, industry, and privacy-preserving systems**.
• The program created a platform for **academic interaction and knowledge sharing among experts and participants**.

Mapping Sustainable Development Goals (SDGs):

1. **SDG 4 – Quality Education**
   The FDP enhanced knowledge among faculty members, researchers, and students in emerging technologies such as Artificial Intelligence, Large Language Models, Generative AI, and Cybersecurity, thereby strengthening digital education and advanced learning capabilities.
2. **SDG 9 – Industry, Innovation and Infrastructure**
   The sessions focused on innovative AI technologies such as Agentic AI, Generative AI, and Machine Learning applications in E-Commerce, promoting technological innovation and supporting the development of intelligent digital infrastructure.
3. **SDG 17 – Partnerships for the Goals**
   The FDP promoted collaboration between **academic institutions and expert researchers from reputed organizations such as IIIT Kottayam, NIT Puducherry, Chiang Mai University, Amrita Vishwa Vidyapeetham, VIT Vellore, and NIT Srinagar**, strengthening knowledge sharing and academic partnerships.

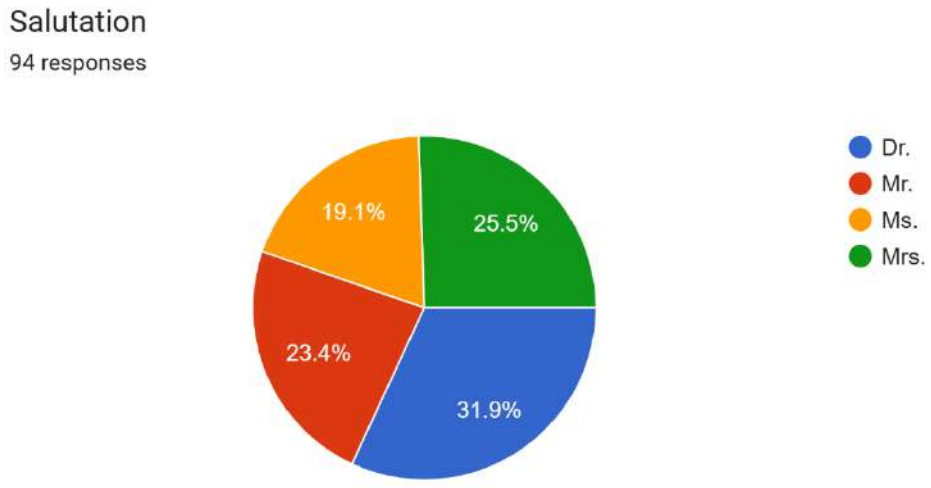
FDP Session Video Links:

The recorded sessions of the Six-Day Online Faculty Development Program (FDP) on "AI and Cybersecurity in the Digital Era: LLMs, Generative AI, E-Commerce Analytics and Federated Systems", sponsored by the IEEE Robotics and Automation Society, are made available through the following YouTube links for reference and future learning.

Day	Date	Topic	Video Link
Day 1	09-03-2026	Introduction to Large Language Models	https://youtu.be/DIzU1cgpWBk
Day 2	10-03-2026	Generative AI	https://youtu.be/-4B7RNxWA74
Day 3	11-03-2026	E-Commerce and Machine Learning	https://youtu.be/SHy0JUMYk4c
Day 4	12-03-2026	Cybersecurity Essentials in Computing	https://youtu.be/VwIgM2I-BoQ
Day 5	13-03-2026	Agentic AI	https://youtu.be/VuggAfWyG0c
Day 6	14-03-2026	Federated Learning for Privacy-Preserving AI	https://youtu.be/T-ymEyDTGWs

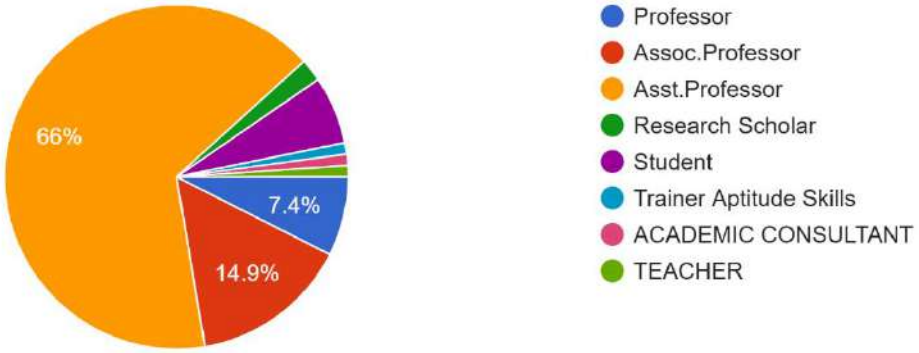
Participants Feedback Summary:

The **Faculty Development Program (FDP)** received positive feedback from participants, including **faculty members, research scholars, and students** from various institutions. The feedback was collected through an online feedback form shared after each session.



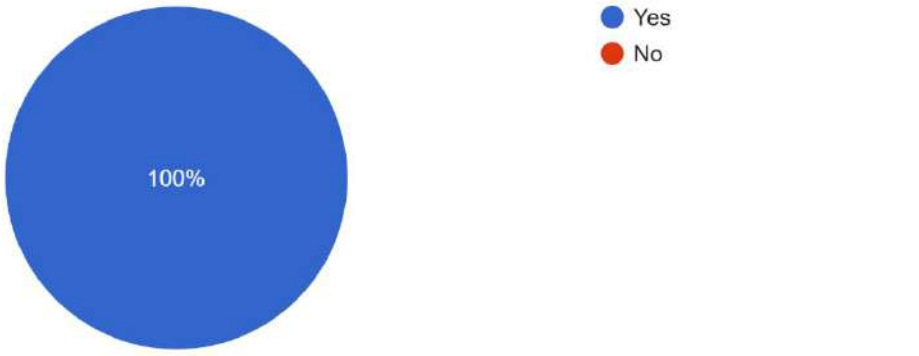
Designation

94 responses



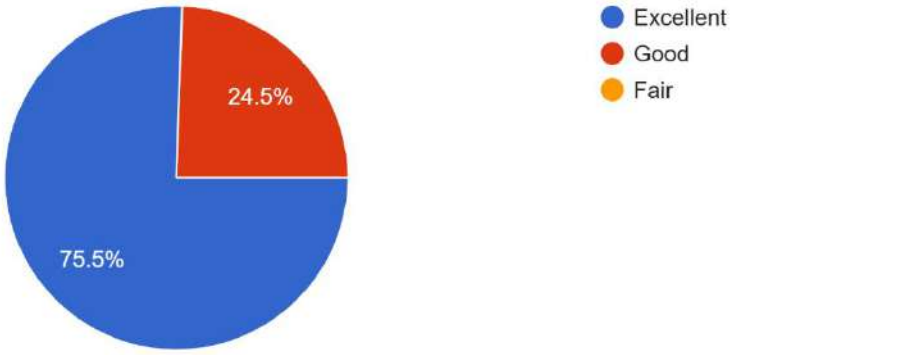
Did the session meet your expectations?

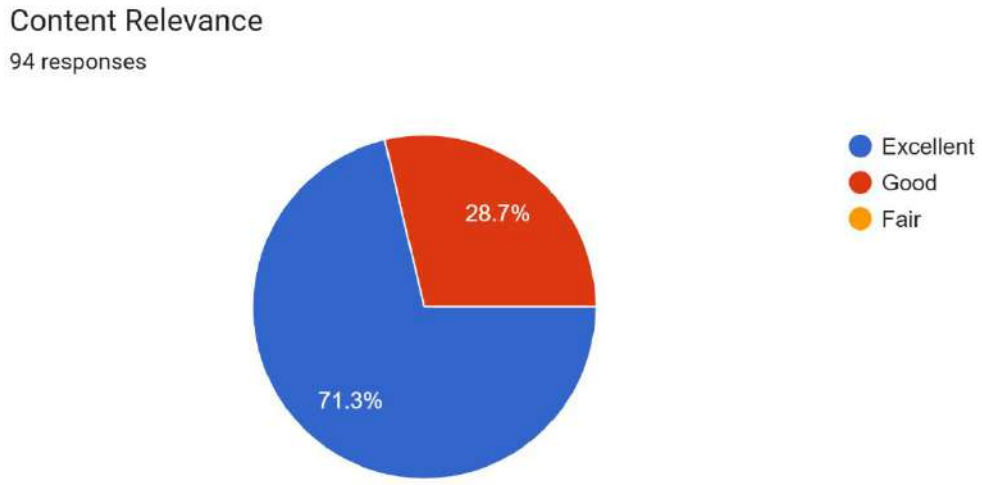
94 responses



Over all satisfaction about resource person

94 responses





Conclusion of the FDP:

The **Six-Day Online Faculty Development Program (FDP)** on "AI and Cybersecurity in the Digital Era: LLMs, Generative AI, E-Commerce Analytics and Federated Systems" was successfully organized by the **Department of Computer Science and Engineering (Artificial Intelligence), Madanapalle Institute of Technology & Science (MITS)** from **09 March 2026 to 14 March 2026**. The program brought together distinguished academicians from reputed institutions who delivered insightful sessions on emerging technologies in Artificial Intelligence and Cybersecurity. The FDP provided participants with valuable exposure to advanced AI paradigms such as Large Language Models, Generative AI, Agentic AI, Machine Learning applications in E-Commerce, Cybersecurity practices, and Federated Learning. The enthusiastic participation, interactive discussions, and positive feedback from attendees reflect the success of the program. Overall, the FDP played an important role in bridging the gap between academic learning and industry-oriented technological advancements.

Impact of the FDP on Teaching, Research, and Industry Collaboration:

The FDP significantly contributed to enhancing the **teaching and research capabilities of faculty members and participants** by introducing them to the latest advancements in Artificial Intelligence and Cybersecurity. Faculty members gained new perspectives and methodologies that can be integrated into their **research activities**. The sessions also encouraged participants to explore **interdisciplinary research opportunities in AI, machine learning, cybersecurity, and data analytics**. Furthermore, interactions with experts from reputed institutions helped strengthen **academic networking and collaboration opportunities**, which may lead to future joint research initiatives, workshops, and knowledge exchange programs. Overall, the FDP played an important role in bridging the gap between **academic learning and industry-oriented technological advancements**.

Acknowledgement:

The organizing team would like to express its sincere gratitude to the **IEEE Robotics and Automation Society** for sponsoring and supporting the **Six-Day Online Faculty Development Program (FDP)**.

We extend our heartfelt thanks to the **management of Madanapalle Institute of Technology & Science (MITS)** for their constant encouragement and support in organizing this program successfully. We express our sincere gratitude to **Dr. C. Yuvaraj, Vice Chancellor (I/c)**, **Dr. D. Pradeep Kumar, Registrar (I/c)** and **Dr. P. Ramanathan, Principal** for their guidance and motivation throughout the event.

We are thankful to **Dr. R. Kalpana, Professor & Head, Department of CSE (AI)**, for her leadership and continuous support in organizing this FDP. We also extend our sincere appreciation to all the **distinguished resource persons** for sharing their valuable knowledge and insights with the participants.

Our special thanks go to the **coordinators, organizing committee members and faculty members of the Department of CSE (AI)** for their dedicated efforts in successfully conducting the program. Finally, we thank all the **participants, including faculty members, research scholars and students**, for their enthusiastic participation and contribution in making this FDP a great success.