

REGISTRATION DETAILS

Participants can register for this course on AICTE ATAL by following steps

<https://atalacademy.aicte-india.org/login>

Registration Fee: Nil

TA will be provided as per ATAL Norms

Number of Seats (Maximum)

50 (on first come first basis)



CHIEF PATRONS

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Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY



AICTE TRAINING AND LEARNING (ATAL)
ACADEMY SPONSORED



**6 - DAY OFFLINE
FACULTY DEVELOPMENT PROGRAM (FDP)
ON
EXPLORING EXPLAINABLE AND GENERATIVE AI
IN CONTEMPORARY MACHINE LEARNING
DURING
15th to 20th JANUARY 2024**

JOINTLY ORGANISED BY

**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
AND
DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE)**

(Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University)



ABOUT AICTE AND ATAL FDP

The All India Council for Technical Education (AICTE) is a national-level apex advisory body in India, established in November 1945, responsible for planning, formulating norms, and maintaining standards for technical education. AICTE aims to ensure quality assurance through accreditation, promote innovation, and manage funding for technical institutions. Additionally, AICTE plays a crucial role in the management and development of technical education across the country.

ATAL Faculty Development Program (FDP) is an initiative by AICTE to enhance faculty members' teaching skills and competencies in technical institutions. It provides opportunities for faculty to learn new pedagogical methods, research advancements, and industry-relevant practices, thereby improving the overall quality of technical education in India.

ABOUT THE INSTITUTE

Adi Shankara Institute of Engineering & Technology (ASIET), Kalady, is dedicated to delivering comprehensive technological education while instilling a strong commitment to professional excellence and ethical values in its students. ASIET operates under the esteemed Adi Sankara Trust, renowned for its 50-year legacy of providing quality education, with guidance from His Holiness Sri Sri Bharati Tirtha Mahasannidhanam of Sringeri Mutt. Established in 2001, ASIET made history as Kerala's first self-financing institution for technological education. The institute is affiliated with A P J Abdul Kalam Technological University and holds approval from AICTE. ASIET offers a diverse range of programs, including undergraduate (UG), postgraduate (PG), and doctoral (PhD) courses in various disciplines such as CSE, ECE, EEE, ME, EBE, CE, and Robotics. Notably, ASIET boasts accreditation from the NBA for four streams: CSE, ECE, EEE, and ME. The institute also provides PG courses in Master of Computer Applications (MCA) and Master of Business Administration (MBA) with various specializations. Over the years, eighteen batches of B. Tech graduates have emerged from this esteemed institution, securing prominent positions in prestigious organizations across India and around the globe.

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering (CSE) at ASIET, Kalady, an NBA accredited department, boasts a distinguished reputation in education and research. Established in 2001, it offers robust undergraduate, postgraduate and research programs that cater to industry demands. The department houses well-equipped labs that facilitate hands-on learning, equipping students for the rapidly evolving tech landscape, research, and innovative endeavours. The expert faculty, cutting-edge facilities, and unwavering commitment to excellence solidify the department's role in shaping proficient professionals and researchers. Notably, ASIET's Department of Computer Science & Engineering (Artificial Intelligence), stemming from the parent CSE department, marks a significant milestone in organising undergraduate programs. These departments have established collaborative partnerships with various industrial organisations, further enhancing its commitment to bridging academia and industry.

ABOUT THE FDP

This Faculty Development Program (FDP) is a comprehensive initiative designed to equip educators with the knowledge and skills required to excel in the rapidly evolving field of artificial intelligence. The program starts with an introduction to machine learning techniques, such as supervised, unsupervised, and reinforcement learning. The program proceeds to advanced topics in deep learning, natural language processing, cyber security & forensics, and explainable AI. It further delves deep into generative AI, the cutting-edge area that focuses on creating AI models capable of generating new content such as images, music and text. The program provides an opportunity for the participants to stay up-to-date with the state-of-the-art technological and research advancements in AI industry preparing participants for the challenges and opportunities in an AI-driven world.

TARGET PARTICIPANTS

Assistant Professors/Associate Professors/ Research scholars/ PG students of the AICTE-recognized universities and Engineering colleges, as well as technocrats (Government/ Industry) and staff of host institutions not more than 30%.

TEST AND E-CERTIFICATE

Participants who have achieved a minimum score of 70% on Continuous Comprehensive Assessment, meeting the prescribed criteria for attendance, assessments, and reports in accordance with ATAL regulations.

RESOURCE PERSONS

- Dr. Narayanan C. K., Associate Professor and HoD, Department of Data Science, IIT Palakad
- Dr. Ebin Deni Raj, Associate Dean CSE, IIIT Kottayam
- Dr. Suchithra M. S., Assistant Professor CSE, IIIT Kottayam
- Dr. Sri Vallabha Deevi, Principal Data Scientist, Tiger Analytics, Chennai
- Dr. Sridhar Swaminathan, AI Team Lead, Karomi Technology Private Limited, Chennai
- Mr. Sebastian Edassery, Director, Head Security, Deloitte South Asia, Bengaluru
- Dr. Renjith Paulose, Principal Architect- AI/ML, UST Global, Kochi
- Dr. Srikrishnan S., Dean & Professor CSE, ASIET Kalady
- Mr. P. V. Rajaraman, Assistant Professor & Head of Department of CSE (AI), ASIET

AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Program (FDP)

On

Exploring Explainable and Generative AI in Contemporary Machine Learning

 During 15th– 20th January 2024

 Jointly Organised by **Department of Computer Science & Engineering And Department of Computer Science & Engineering (Artificial Intelligence)**

(Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University)

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
	15 Jan 2024 Monday	16 Jan 2024 Tuesday	17 Jan 2024 Wednesday	18 Jan 2024 Thursday	19 Jan 2024 Friday	20 Jan 2024 Saturday
9.00- 9.30 am	Inauguration					
9.30-12.00 pm	Session 1: Introduction to Machine Learning and Deep Learning, Building CNN for Image Classification	Session 3: Sentiment Analysis, Natural Language Processing (NLP) & Large Language Models (LLM)	Session 5: Generative Adversarial Networks and working principles	Session 7: Generative AI	Industrial Visit at Inker Robotics, Thrissur	Session 10: Industry Applications and Future Trends in AI
12.00-12.40 pm	Lunch Break					
12.40-3.10 pm	Session 2: Explainable AI	Session 4: Reinforcement Learning	Session 6: Advanced Deep Learning Techniques- Transfer Learning and Autoencoder	Session 8: AI Applications in Cyber Security & Cyber Forensics	1.30pm - 4.00pm Session 9: Research Methodology	12:40 -1.40pm: Reflection Journal
3.15-4.15 pm	Article Discussion	Article Discussion	Article Discussion	Article Discussion		1:40 – 3:40 pm MCQ, Feedback & Interactions
4.15-5.15 pm	Practical sessions/Labs	Practical sessions/Labs	Practical sessions/Labs	Practical sessions/Labs	Practical sessions/Labs	3:40 – 4:40 pm Valedictory Session

Details of Resource Persons

Session 1	Dr. Suchithra M S, Assistant Professor, Department of Computer Science and Engineering, IIIT, Kottayam	Session 6	Dr. Sridhar Swaminathan, AI Team Lead, Karomi Technology Private Limited, Chennai
Session 2	Dr. Ebin Deni Raj, Assistant Professor & Associate Dean Academic Affairs, IIIT Kottayam	Session 7	Mr. P V Rajaraman, Assistant Professor and Head of Department of Computer Science and Engineering(Artificial Intelligence), ASIET
Session 3	Dr.Sri Vallabha Deevi, Principal Data Scientist, Tiger Analytics, Chennai	Session 8	Mr. Sebastian Edassery, Director, Head Security, Deloitte South Asia, Bengaluru
Session 4	Dr.Sri Vallabha Deevi, Principal Data Scientist, Tiger Analytics, Chennai	Session 9	Dr. Srikrishnan S, Dean & Professor, Department of Computer Science and Engineering, ASIET
Session 5	Dr. Narayanan C.K., Associate Professor and Head of Department, Department of Data Science, IIT Palakkad, Kerala	Session 10	Dr. Renjith Paulose, Principal Architect- AI/ML, UST, Kochi