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PATRON

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ORGANIZING COMMITTEE

Mr. V. KUMARAGURU / Asst., Prof / CSE (ICB)
Mrs. K. C NITHYASREE / Asst., Prof / CSE (ICB)
Ms. S. ADOLPHINE SHYNI / Asst., Prof / CSE (ICB)
Ms. A. SHEERIN / Asst., Prof / CSE (ICB)
Mr. U. MURUGANANTHAM / Asst., Prof / CSE (ICB)

TOPICS TO BE COVERED

- Artificial Intelligence (AI)
- Internet of Things (IoT)
- Edge Computing and Edge AI
- 5G Networks and Real-Time Data Processing
- Digital Twin Technologies and Smart Factories
- Cybersecurity and Privacy in AI-IoT Systems
- Cloud to Edge Computing Paradigms
- AIoT in Healthcare, Smart Cities, and Agriculture

Location   Registration

ABOUT THE INSTITUTE

The Manakula Vinayagar Institute of Technology (MVIT), with its motto, Educate, Empower and Excel, is a premier Autonomous institution run by Sri Manakula Vinayagar Educational Trust and was established in the year 2008, to provide quality technical education to young citizens and participate in the technological progress of our Nation. The Institute was approved by AICTE, New Delhi and Affiliated to Pondicherry University. The college has received accreditation from NAAC with an A grade and offers NBA-accredited programs.

MVIT is situated on the Pondicherry – Villupuram National Highway (NH-45A) in Madagadipet, Puducherry, South India. Our institution is located in the integrated campus, spread over an area of 75 acres, comprising buildings of high-standard, classrooms, ICT facilities, adequate laboratories, auditorium, conference hall, Audio VisualRoom, Central Library, and Digital Library. A solar power plant with 311 KW capacity is installed to generate electricity used as a sustainable alternative.

The institute's core values include Commitment to Excellence, Innovation, Integrity, Diversity, Equity, Inclusion and Social Responsibility. MVIT houses the Centre of Excellence (CoE). A practical Training and Placement Cell is in place to provide placement to all our students. Focus is given to Co-Curricular activities and extracurricular activities through various clubs and societies instituted to augment the student's skills and knowledge.

ABOUT THE DEPARTMENT

The Department of CSE (ICB), established in 2020 with an initial intake of 60 students, has been consistently advancing in teaching and R&D activities. It maintains a well-equipped library and enhances students' technical skills through seminars, workshops, and guest lectures The department has signed MoUs with reputed companies to facilitate industrial training, faculty development, and R&D initiatives. It focuses on emerging fields like IoT, cybersecurity, and Blockchain, which are transforming industries and offering high-demand career opportunities such as IoT architects, cyber security analysts, and blockchain developers.

MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)
Affiliated to Pondicherry University
Accredited by NBA, New Delhi and NAAC with 'A' Grade)
Kalitheerthalkuppam, Puducherry-605 107.
Ph: 0413-264007, fax: 2643008, 2643014

Sponsored

**ONE -WEEK OFFLINE ATAL
FACULTY DEVELOPMENT PROGRAM**

on

**"AI-IoT-Edge Revolution: Building the Future of Smart Systems"
from
17th November 2025 – 22nd November 2025**

Organized by

DEPARTMENT OF CSE (INTERNET OF THINGS AND CYBER SECURITY INCLUDING BLOCKCHAIN TECHNOLOGY)

&

ATAL INCUBATION CENTER,
PONDICHERRY ENGINEERING COLLEGE FOUNDATION,
PUDUCHERRY – 605014

ABOUT AICTE

The All India Council for Technical Education (AICTE) is the statutory body and a national-level council for technical education, under Department of Higher Education, Ministry of Human Resource Development. Established in November 1945, first as an advisory body and later on in 1987, given statutory status by an Act of Parliament, AICTE is responsible for proper planning and coordinated development of the technical education and management education system in India. AICTE is vested with statutory authority for planning, formulation and maintenance of norms and standards, quality assurance through school accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated development and management of technical education in the country

OBJECTIVES OF ATAL ACADEMY

The All India Council for Technical Education (AICTE) is the statutory body and a national-level council for technical education, under Department of Higher Education, Ministry of Human Resource Development. Established in November 1945, first as an advisory body and later on in 1987, given statutory status by an Act of Parliament, AICTE is responsible for proper planning and coordinated development of the technical education and management education system in India. AICTE is vested with statutory authority for planning, formulation and maintenance of norms and standards, quality assurance through school accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated development and management of technical education in the country

ABOUT THE FDP

The ATAL Faculty Development Programme (FDP) on "AI-IoT-Edge Revolution: Building the Future of Smart Systems" is designed to provide a comprehensive understanding of AI, IoT, and Edge Computing technologies. The program aims to:

1. Enabled participants with foundational knowledge and advanced techniques in AI, IoT, and Edge Computing to develop intelligent and efficient smart systems.
2. Explore cutting-edge technologies such as neural networks, deep learning, and data analytics in conjunction with IoT and Edge Computing.
3. Enable participants to initiate and conduct research projects in AI-IoT-Edge domains, fostering innovation and contributing to academic and industrial advancements.
4. Demonstrate the application of these technologies through real-world case studies and hands-on projects, addressing challenges in industries such as healthcare, automation, and smart infrastructure.
5. Promote collaboration and knowledge sharing by providing a platform for participants to network with industry experts, researchers, and innovators to explore future research and development opportunities.

OUTCOME OF THE FDP

Upon completion of the Faculty Development Program (FDP), participants emerge with enriched capabilities and insights:

- Develop a comprehensive understanding of AI, IoT, and Edge technologies and their role in building intelligent and connected systems.

- Stay informed about cutting-edge research trends in AIoT, Edge Intelligence, and emerging paradigms like Quantum AI and Federated Learning.

- Gain hands-on experience in deploying AI models on IoT and Edge devices, enhancing real-time decision-making and optimizing performance.

- Integrate AI-IoT-Edge concepts into academic curricula, develop new courses, and lead innovative research initiatives to strengthen India's AI and IoT ecosystem.

- Strengthen partnerships between academia, industry, and government to drive advancements in AI-IoT-Edge technologies, contributing to India's leadership in smart systems and Industry 4.0.

TARGETED PARTICIPANTS

Faculty, Research Scholars and PG students from AICTE-approved engineering colleges and institutions, and R&D organizations with basic degrees in Computer Science and Engineering, Cloud Computing and Blockchain Technology, Information Security, Electronics and Computer Engineering, Artificial Intelligence and Machine Learning and those who are associated AI, IoT, Edge Computing and related fields.

Mode: **Offline**

REGISTRATION / ACCOMMODATION / SELECTION CRITERIA

- No registration fee for participation.
- Refreshments & lunch would be provided free of cost.
- Selection will be done based on first-cum-first serve basis and the confirmed candidates will be notified immediately. The maximum number of participants will be 50 (Fifty)
- Participants can sign up and register for the program in the AICTE ATAL website links

    https://www.aicte-india.org/atal
    or
    https://atalacademy.aicte-india.org/signup

- For any information about FDP & registration process, feel free to contact the Coordinator

IMPORTANT DATES

- Last date for online registration   : **10/11/2025**
- Intimation of selection through E-mail : **12/11/2025**

CERTIFICATION

E-Certificates will be issued by AICTE Training and Learning (ATAL) academy to to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

ATAL Offline 6-Day Faculty Development Program 2025-26 Schedule

Title of the FDP: AI-IoT-Edge Revolution: Building the Future of Smart Systems

FDP Application Number: 1740809501

FDP Start Date: 17.11.2025

FDP End Date: 22.11.2025.

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:00 – 9:30 Inauguration **9:30 – 12:00 Session 1** 1. Name of the Expert: Dr. N. Poonguzhali 2. Designation: Associate Professor 3. Organization: Jawaharlal Nehru University, New Delhi. 4. Experience in Years: 24 years 5. Topic to be taught Introduction to AI-IoT & Edge Intelligence: The Power Duo for Smart Systems	**9:30 – 12:00 Session 3** 1. Name of the Expert: Dr. K. Suresh Joseph. 2. Designation: Professor 3. Organization: Pondicherry University, Puducherry. 4. Experience in Years: 20 years 5. Topic to be taught Edge AI & 5G Networks Enabling Real-Time Intelligence .	**9:30 – 12:00 Session 5** 1. Name of the Expert: Dr. Arunkumar Thangavelu 2. Designation: Professor 3. Organization: Vellore Institute of Technology, Vellore. 4. Experience in Years: 25 years 5. Topic to be taught Industry 4.0, Smart Factories & Digital Twins.	**9:30 - 12:00 Session 7** 1. Name of the Expert: Dr. B. Lakshmi Priya 2. Designation: Associate Professor 3. Organization: Jawaharlal Nehru University, New Delhi. 4. Experience in Years: 20 years 5. Topic to be taught Startups, Entrepreneurial & Funding Opportunities in AI-IoT Research.	**9:00 – 1:00** **Industrial visit** **ATAL INCUBATION CENTER** Pondicherry Engineering College Foundation, Pillaichavady, Puducherry – 605014.	**9:30 – 12:00 Session 10** 1. Name of the Expert: Dr. G. Kumaravelan. 2. Designation: Associate Professor. 3. Organization: Pondicherry University, Karaikal Campus, Karaikal. 4. Experience in Years: 19 years 5. Topic to be taught Future of AI-IoT: Quantum AI, Federated Learning & Green AI.
12:00 – 1:00 Article Discussion 1 On the interplay of Internet of Things and Cloud Computing: A systematic mapping study. Computer Communication (2016)	**12:00 – 1:00 Article Discussion 2** Resource Allocation with Edge Computing in IoT Networks via Machine Learning IEEE Internet of Things Journal (2020)	**12:00 – 1:00 Article Discussion 3** Enhancing federal Cloud security with AI: Zero Trust, Threat Intelligence and CISA Compliance World Journal of Advanced Research and Reviews (2025)	**12:00 – 1:00 Article Discussion 4** Review of Security and Privacy-Based IoT Smart Home Access Control. Wireless Personal Communication (2024)		**12:00 – 1:00 Article Summary**
1:00 – 2:00 Lunch				
2:00 – 4:30 Session 2 1. Name of the Expert: Dr. P. Salini 2. Designation: Associate Professor 3.Organization: Puducherry Technological University, Puducherry. 4. Experience in Years: 20 years 5. Topic to be taught: From Cloud to Edge-Navigating the shift in Computing paradigms.	**2:00 – 4:30 Session 4** 1. Name of the Expert: Dr. R. Sendhil 2. Designation: Assistant Professor 3. Organization: Vellore Institute of Technology, chennai. 4. Experience in Years: 11 years 5. Topic to be taught:Empowering IoT with AI-smarter Devices, Smarter Decisions.	**2:00 – 4:30 Session 6** 1. Name of the Expert: Dr. S. Geetha 2. Designation: Assistant Professor 3. Organization: Pondicherry University, Puducherry. 4. Experience in Years: 11 years 5. Topic to be taught AI-IoT for Healthcare & Precision Medicine.	**2:00 – 4:30 Session 8** 1. Name of the Expert: Dr. T. Rajendran 2. Designation: Associate Professor and Head 3. Organization: Vel Tech Rangarajan Dr. Sagunthala R& D Institute of Science and Technology. 4. Experience in Years: 15 years 5. Topic to be taught: Cyber security Challenges in AI-IoT.	**2:00 – 4:30 Session 9** 1. Name of the Expert: Dr. L. Jayakumar 2. Designation: Assistant Professor 3. Organization: National Institute of Technology, Agartala, Tirpura. 4. Experience in Years: 14 years 5. Topic to be taught: Recent Trends in AI-IOT and Edge Technologies towards Smart Agriculture.	**2:00 – 4:00** MCQ, Feedback & Reflection Journal
4:30 – 5:30 Hands-on/ Lab session Building of Deep Learning Model with Pytorch Dr. N B Arunekumar Dept of Experiential Learning and Global Engagement, Koneru Lakshmaiah Education Foundation, Guntur, Andhra Pradesh.	**4:30 – 5:30** Hands-on/ Lab session Deploying AI Models on Edge Devices (TensorFlow Lite & Tiny-ML) Dr. B. Ezhilavan, Founder & CEO, Vei Technologies Pvt. Ltd, Chennai.	**4:30 – 5:30** Hands-on/ Lab session Real-Time AI-IoT Data Analytics & Decision Making Dr. T. Rajesh Technical Lead Engineer, Innovate Engineering Products, Hosur.	**4:30 – 5:30** Hands-on/ Lab session Industry- Scale IoT Applications (Cyber Security & Data Privacy) Mrs. P. Suriya Teaching cum Research Officer (IT), Cyber Security, Rashtriya Raksha University, Puducherry.	**4:30 – 5:30** Hands-on/ Lab session Building the Web of Future AI Systems: Vulnerability Penetration Testing Mr. K. Athithan Founder & CEO Adeptit Pvt. Ltd, Puducherry.	**4:00 – 5:00** **Valedictory** **Session**