

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

FDP Application Number: 1740809501

FDP Start Date: 17.11.2025

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

FDP End Date: 22.11.2025.

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:00 – 9:30 Inauguration 1. Name of the Expert: Dr. N. Poonguzhalai 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, Tirputta. 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 Adepit Pvt. Ltd, Puducherry.	4:00 – 5:00 Valedictory Session