



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

On

Integrated Approaches to Real-Time IoT Data Analytics and Decision-Making Using Lightweight Deep Learning Models

(28 April – 03 May 2025)

Organised by

Department of Computer Science and Engineering, IIIT Kottayam, Kerala

In Association With

Department of Computer Engineering, NIT Kurukshetra, Haryana

Powered By

RSP Science Hub, Coimbatore, Tamilnadu



About the FDP

The FDP is designed to provide participants with a comprehensive understanding of cutting-edge techniques for analyzing real-time IoT data. It focuses on leveraging lightweight deep learning models for efficient decision-making, making it ideal for scenarios requiring low latency and resource-constrained environments. The program will equip participants with the theoretical and practical knowledge necessary to address challenges in IoT data management and analytics.

Program Objectives :

- 1.To introduce the fundamentals of IoT systems and their integration with real-time data analytics.
- 2.To explore lightweight deep learning models and their applications in IoT data processing.
- 3.To demonstrate real-time decision-making frameworks for IoT use cases.
- 4.To enable participants to design and implement efficient IoT analytics pipelines.
- 5.To provide hands-on experience with tools and platforms for real-time IoT data analytics.

Key Topics Covered:

- 1.Day 1: Fundamentals of IoT and Real-Time Data Analytics
- 2.Day 2: Introduction to Lightweight Deep Learning Models
- 3.Day 3: Advanced Integration of IoT Data with Lightweight Models
- 4.Day 4: Advanced Real-Time Decision-Making Frameworks
- 5.Day 5: Specialized Tools and Cutting-Edge Implementation Techniques

Faculty conducting this program:

- 1.Doctorates or Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures.

Registration Fee Particulars:

- 1.Faculty & Student Participant Fee: Rs. 590 (includes GST)
- 2.Industry Professional Participant Fee: Rs. 885 (includes GST)

How to apply:

Participants are required to fill out the online registration by clicking on the following link:

rzp.io/rzp/FdpIOT

Important Dates:

Start Date	28.04.2025
End Date	03.05.2025



About IIIT Kottayam:

The IIIT, Kottayam is among the IIITs established as "Institutions of National Importance" by the Ministry of Education, GoI under the ambit of IIIT (PPP) Act 2017. The institute offers a 4-year B.Tech and B.Tech(Hons) program with specialized courses covering all major research domains of Computer Science, Electronics and Communication Engineering. The institute also offers M.Tech in CSE and Ph.D. programs in CSE, ECE, and Mathematics.

About NIT Kurukshetra:

NIT Kurukshetra, formerly known as Regional Engineering College, Kurukshetra was founded in 1963. It was conferred upon the NIT status, with Deemed University on June 26, 2002. The Institute offers several courses, in various disciplines of B.Tech, M.Tech., MBA and MCA and Ph.D. Institute also provides excellent facilities for advanced research in the emerging areas of Engineering, Science, and Technology.

Convener

Dr. Dhakshayani J

Assistant Professor,

Department of Computer Science and Engineering

Indian Institute of Information Technology Kottayam

Kerala, India

Email Id: dhakshayani@iiitkottayam.ac.in

Phone Number: 9578359880

Coordinators

Dr. Sweeti Sah

Assistant Professor

Department of Computer Engineering

National Institute of Technology Kurukshetra

Haryana, India

Email Id : sweetsah3@nitkr.ac.in | **Phone number:** 9455147267

Dr. Shweta Sharma

Assistant Professor

Department of Computer Engineering

National Institute of Technology Kurukshetra

Haryana, India

Email Id: shweta.sharma@nitkr.ac.in | **Phone number:** 8626882647