

ELIGIBILITY

Registration is open to faculty members of AICTE approved institutions, research scholars, PG Scholars, and participants from Government/ Industry.

REGISTRATION

- There is no registration fee for FDP
- Participants are requested to register online at <https://www.aicte-india.org/atal>
- Selection is based on first come first serve basis with a maximum limit of 200 participants

Course Coordinator

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Assistant Professor in CS
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Patrons

Dr. P. Suresh Kumar (Director, IHRD)
Dr. Nisha Kuruvilla (Principal)
Dr. Shreevar K. T. (HOD, ECE Dept)

COURSE OBJECTIVES

Internet of Things (IoT) is integrating the physical world into computer-based systems with sensors, software, network connectivity and necessary electronics. IoT is getting ubiquitous now and the design and development of intelligent IoT systems is opening up endless opportunities as well as security challenges. This FDP covers basics to advanced topics in IoT, and aims to provide a platform for participants to interact on cutting-edge technologies in the area of IoT, while aiding to integrate AI and security features in IoT based systems.

COURSE CONTENTS

- ❖ Introduction to IoT & IoT Architecture
- ❖ IoT System Design with Raspberry Pi & Arduino
- ❖ IoT Hardware Design
- ❖ IoT Sensors and Data Analytics
- ❖ LoRaWAN for IoT
- ❖ IoT Security
- ❖ Machine learning and IoT
- ❖ Intelligent IoT System Design

RESOURCE PERSONS

Eminent academicians from state/central universities and experts from industry.



AICTE Training And Learning (ATAL)
Academy sponsored
Five Day Online FDP on

SECURE & INTELLIGENT IoT SYSTEM DESIGN

SEPTEMBER 14TH - 18TH 2020



Host Institution

College of Engineering, Kolloppara

Organized by



Department of ECE
College of Engineering Kolloppara
Kadamankulam P.O, Thiruvalla (via)
Pathanamthitta District
Kerala State- 689583
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ABOUT ATAL ACADEMY

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Ministry of Human Resource Development, Govt. of India. The Council understand that there is a need of the day to train the young generation in skill sector and having faculty and technicians to be trained in their respective disciplines and in thrust areas. Accordingly, it was decided to establish AICTE Training And Learning (ATAL) Academies at different parts of the country including the one in Kerala at Thiruvananthapuram. As a part of its activities, ATAL Academy is sponsoring a five day FDP in online mode on “Secure and Intelligent IoT Design” from 14th to 18th September, 2020, to be hosted by IHRD College of Engineering, Kalloppara, a Govt. of Kerala undertaking.

ABOUT IHRD

Institute of Human Resources Development (IHRD) is an autonomous educational institution established by the Government of Kerala in 1987. The management of the institute is vested with a Governing Body composed of with the Hon’ble Minister of Higher Education, Government of Kerala, as the Chairman and Chief Secretary to Government of Kerala as the Vice-Chairman. IHRD is dedicated to the scientific advancement, technological progress and economic growth of the country. Based on the principle, “Think Globally and Act Locally”, it endeavors to bring about the welfare of the nation and to provide education and training of consistently high standard through innovative and versatile programmes suitable for the current and emerging needs of the community.

COLLEGE OF ENGINEERING KALLOPPARA

The college is one of the premier institutions among the new generation engineering colleges in South India. Ever since its inception under the aegis of IHRD, the college has made its presence felt in the technical horizon of the State. The College is affiliated to APJ Abdul Kalam Technological University (KTU) and approved by All India Council for Technical Education (AICTE).

DEPARTMENT OF ECE

Department offers undergraduate and post graduate courses in Electronics and Communication Engineering. Department has well equipped Lab and Library. It has experienced and well qualified faculty who are actively involved in research activities and have contributed research publications in national and international journals.



AICTE Training and Learning Academy

Five day Online FDP on Secure and Intelligent IoT System Design

Hosted by: College of Engineering, Kolloppara

Date: 14th to 18th September 2020

FDP Schedule

Date/Day	Session 1 10.00 AM-11.30 AM	Session 2 12.00 PM-1.30 PM	Session 3 2.30 PM-4.00 PM
14/09/2020 (Monday)	Introduction to IoT, IoT Architecture and Protocols Prof (Dr.) Manoj B S. Professor, IIST , TVM	Security Challenges in IoT Prof (Dr.) Manoj B S Professor, IIST , TVM	IoT Systems - Industry perspective Mr. Manu Pradeep IoT Architect, TCS
15/09/2020 (Tuesday)	Programming Raspberry Pi Mr. Abubeker K M Asst. Professor., AJCE	Raspberry Pi based Design Mr. Abubeker K M Asst. Professor, AJCE	Machine learning with Raspberry Pi Mr. Abubeker K M Asst. Professor, AJCE
16/09/2020 (Wednesday)	Arduino Programming Prof.(Dr.) Sunil T T Principal, CE Attingal	Arduino based IoT System Design Prof.(Dr.) Sunil T T Principal, CE Attingal	IoT Hardware Design Mr. Liju Philip Asst. Professor, CE Kolloppara
17/09/2020 (Thursday)	IoT Sensors and Data Analytics Prof.(Dr.) Sunil T T Principal, CE Attingal	LoRaWAN for IoT Mr. Akshai M SRF, Open IoT Lab, ICFOSS,TVM	Stress Management Dr. Angel Thomas Clinical Psychologist
18/09/2020 (Friday)	Artificial Intelligence and IoT Dr. Sumitra S, Assoc. Professor, IIST , TVM	Intelligent IoT System Design Dr. Sumitra S Assoc. Professor, IIST , TVM	Feedback, Online Test