

Internet of Things (UX007)

Duration: 40 Hours

Program Objective

- Getting Started with Internet of Things
- Setting Up Development Environment for IoT
- Getting started - Java, Java ME, NetBeans 8.1 IDE ,Python
- Basic of Electronics, Raspberry Pi and sensors
- Setting Up Software Components on Raspberry Pi
- Deep Dive into Java ME8 and RaspberryPi For IoT
- Building Java ME IMlets Programs for IoT
- Digital and Analog Sensors
- Communication Pattern and Protocols
- CLDC Overview
- Accessing Sensors by Using the Device Access API
- Using the Logging API
- Generic Connection Framework (GCF)
- Application Management System (AMS)
- Storing Data by Using the Record Management System
- Security Measures used in IOT
- IoT Architecture
- Cloud Overview

Prerequisite

- Fundamentals of Java Programming Language
- Basic understanding of Electronics

Exit Profile

After completion of this program, student will be able to apply key concepts of IoT using Java Programming Language.

Global Certification Mapped

NA