

Syllabus of IOT

- ✚ Introduction to Big DATA
- ✚ BIG DATA to IOT Convergence
- ✚ Installation of Python IDE
- ✚ Introduction and configuration of Raspberry pi
- ✚ Basics of Raspberry pi
- ✚ Python Programming
- ✚ LED interfacing and Blinking
- ✚ PWM generation
- ✚ Switch Interfacing
- ✚ Reading inputs from key interfacing
- ✚ Introduction to think speak
- ✚ Account configuration with thing speak
- ✚ Demonstration of Application developed during workshop
- ✚ Introduction to temperature and humidity sensor
- ✚ Interfacing and programming with sensors
- ✚ Introduction to Ultrasonic sensor
- ✚ Interfacing ultrasonic sensor with collecting data to server
- ✚ Introduction to thinkspeak
- ✚ Generating channel on thinkspeak
- ✚ Programming raspberry pi to send data of sensors on thinkspeak
- ✚ Distance measurement with ultrasonic sensor
- ✚ Configuring server with distance itemset collections
- ✚ Itemset exploration with collected big data
- ✚ What is BIG data
- ✚ IOT With Big data
- ✚ Various Tools For BIG Data Analytics
- ✚ Programming Languages for Big Data Analytics
- ✚ Introduction to R and R Studio
- ✚ Introduction to iPython
- ✚ Python with Big Data
- ✚ Anaconda Framework with Big Data analytics
- ✚ Installation of Anaconda Navigator