**IoT course Outline**

**Module 01 : Introduction to IoT, Sensing, Actuation, Basics of Networking.**

**Module 02 : Basics of Networking, Communication Protocols.**

**Module 03 : Communication Protocols, Sensor Networks.**

**Module 04 : Sensor Networks, Machine-to-Machine Communications.**

**Module 05 : Interoperability in IoT, Introduction to Arduino Programming, Integration of Sensors and Actuators with Arduino**

**Module 06 : Introduction to Python programming, Introduction to Raspberry.**

**Module 07 : Implementation of IoT with Raspberry Pi, Introduction to SDN.**

**Module 08 : SDN for IoT, Data Handling and Analytics, Cloud Computing.**

**Module 09 : Cloud Computing, Sensor-Cloud.**

**Module 10 : Fog Computing, Smart Cities and Smart Homes.**

**Module 11 : Connected Vehicles, Smart Grid, Industrial IoT.**

**Module 12 : Industrial IoT, Case Study: Agriculture, Healthcare, Activity Monitoring.**