

Course Outline

TEQIP III Sponsored Short Term Course
on
Internet of Things: Theory and Applications
(October 24-28, 2018)
Course Coordinator: Prof. Sudip Misra
CSE, IIT Kharagpur

Day1: 24/10/2018

1. WSN – Introduction
2. WSN – Coverage, Routing and Topology Management
3. IoT – Introduction

Day2: 25/10/2018

1. IoT – Sensing and Actuation
2. Basics of networking
3. Communication Protocols
4. Sensor Networks

Day3: 26/10/2018

1. Machine-to-Machine Communications
2. Interoperability in IoT
3. Introduction to Arduino Programming and Hands on sessions

Day4: 27/10/2018

1. SDN for IoT
2. Data Handling and Analytics
3. Cloud Computing

Day5: 28/10/2018

1. Research Challenges in IoT
2. Connected Vehicles
3. Industrial IoT

** In addition to the above, special lectures will be offered on different topics.