IoT and Blockchain

Course Content –

What is IoT?

- Internet of Things Overview
- IoT History

How does IoT work?

- Components of an IoT device

Current IoT Landscape

- Growth areas:
- Privacy concerns

IoT Design Standards

- Zigbee networking protocol
- Thread Group
- AllSeen Alliance/AllJoyn
- Open Interconnect Consortium/IoTivity
- Industrial Internet Consortium
- ITU-T SG20
- IEEE P2413
- Apple HomeKit

IoT Design Questions

- Questions to help you design an IoT solution

IoT Architecture

- Stage 1 - Data Generation (Sensors / Actuators)
- Stage 2 - Data Acquisition Systems
- Stage 3 - Edge Processing
- Stage 4 - Long-Term Data Storage / Blockchain

What is Blockchain?

- History of Blockchain

How does Blockchain work?

- Benefits of Blockchain
- Blockchain vs. conventional technology

IoT / Blockchain

- Benefits of adding Blockchain to IoT
  - o Trust Building
  - o Cost Reduction
  - o Accelerate Data Exchanges
  - o Scaled Security for IoT