



CERTIFICATE IN CYBER SECURITY

Overview

This module is designed to provide students with solid technical knowledge and skills to build Internet of Things (IoT) systems.

The Internet of Things (IoT) is one of the most exciting and impactful technological evolutions of our time. Through this course, you'll be introduced to what IoT is, how it's come about, and what skills are needed to build capabilities for an "IoT Future".

Together, will get a hands-on understanding of how the Internet of Things will impact every facet of human life as we move forward and how you can create opportunities for innovation with IoT in different areas of business and life.

Course Objective

In this course, students are expected to :

- Understand the definition and usage of the term "Internet of Things" in different contexts.
- Understand the skills acquired during the course to build and test a complete, working IoT system involving prototyping
- Understand the key components that make up an IoT system
- Understand where the IoT concept fits within the broader ICT industry and possible future trends.
- Appreciate the role of big data, cloud computing and data analytics in a typical IoT system.

Learning Outcome

- Able to understand the application areas of IOT
- Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
- Able to understand building blocks of Internet of Things and characteristics.
- Identify business and innovation opportunities offered by IoT
- Identify ways to build capabilities for IoT at the individual, business, and industry levels.

Who Should Attend

Executive & Managers

Course Content

Day 1

Introduction to the Internet of Things

Day 2

Communication protocols used in IoT

Day 3

Software and Building components for IoT

Day 4

Hands on Arduino

Day 5

Hands on Raspberry Pi
Scoop Exams

Training Activity / Methodology

This program places heavy emphasis on experimental learning and delivered through: Lecture, Role Play, Practical Exercise, Cases Studies, Video Presentation, Training Games and etc.