



CERTIFICATE IN INTERNET OF THINGS (IoT) Programming

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 Objectives

In this course, participants 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 programme IoT devices.

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 Outcomes

After completing this course, participant will be able to:

- Demonstrate the Internet of Things (IoT)
- Explain RFID: technology and applications
- Illustrate Programming for IoT
- Describe Sensors and wireless sensor networks
- Explain Localization technologies

Who Should Attend

Non Executives & Executives

Course Contents

Day 1

Module 1: Introduction to the Internet of Things (IoT)

Module 2: Sensors and sensor nodes

Module 3: Connectivity and networks

Day 2

Module 4 : An Introduction to Python

Module 5: Basic Python Syntax

Module 6: Language Components

Module 7: Collections

Day 3

Module 8: Functions

Module 9: Modules

Module 10: Input and Output

Day 4

Module 11: Classes in Python

Module 12: Regular Expressions

Day 5

Module 13: Overview of Open source hardware

Module 14: Introduction to Arduino

Module 15: Setting up first Raspberry Pi

Case Study

Open Book & On-line Examinations

Training Activity / Methodology

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

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