**Foundation Skills Required for IoT**

1. Embedded System Design - IoT Controllers

2. Interfacing Sensors & Actuators

a. Knowledge about How Sensors Work

b. Knowledge about How Actuators Work

3. Controller Programming

a. Embedded C

b. Python

c. Sketch Programming

4. Connectivity Protocols

a. WiFi

b. Bluetooth

c. LoRaWAN

d. Zigbee

5. Communication Protocols

a. MQTT

b. HTTP

c. CoAP

d. TCP

6. Gateway Configuration

7. Cloud Configurations

8. Data Analytics

a. Artificial Intelligence

b. Big Data

9. Visualization of Data using Mobile Application Design

a. Android Studio

b. Flutter

c. QT & QML

10. Visualization of Data using Web Application Design

a. HTML, JavaScript & PHP

b. Python

c. Node.js