

# TECNIA INSTITUTE OF ADVANCED STUDIES

Grade 'A' Institute

Department of Information, Communication & Technology

## Master Of Computer Applications (MCA)

Scheme and Syllabus (w.e.f. Academic Session 2020-21 onwards)

Course Code: MCA-235

Course Name: : Internet of Things

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### LEARNING OBJECTIVES

In this course, the learners will be able to develop expertise related to the following: -

1. Understand the IoT Terminology, Technology, architecture and its implementation procedure.
2. Learn the Network and Communication protocols for IoT.
3. Identify the role of controllers and sensors in IoT.
4. Apply the Programming Concepts for IoT.

### PRE-REQUISITES

Basic Knowledge of Programming and Data Networking concepts

### COURSE OUTCOMES (COs)

After completion of this course, the learners will be able to:

CO#	Detailed Statement of the CO	BT Level	Mapping to PO #
CO1	Explain the architecture of Internet of Things	BTL2	PO1, PO2
CO2	Demonstrate the different enabling technologies for IoTs	BTL2	PO1, PO2
CO3	Apply Python Programming skills to develop IoT application	BTL3	PO1, PO2, PO3,
CO4	Analyze the architecture of Arduino and Raspberry Pi	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO5	Create Small IoT Applications using Sensors	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11