

TECNIA INSTITUTE OF ADVANCED STUDIES
Grade 'A' Institute
Department of Information, Communication & Technology
Bachelor of Computer Applications (BCA)
Scheme and Syllabus (w.e.f. AS 2021-22)

COURSE CODE: BCA 372

COURSE NAME: PRACTICAL-XII IOT LAB

LEARNING OBJECTIVES:

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

1. To learn and understand the concept of Internet of Things (IOT).
2. To study the constituent components of Internet of Things.
3. To design and develop IoT applications using different, Sensors/actuators.
4. To seek working knowledge of Arduino, Raspberry pi Boards and to develop cloud based IOT projects.

PRE-REQUISITES:

1. Basic Programming Knowledge
2. Use of Internet

COURSE OUTCOMES (COs):

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

CO#	Detailed Statement of the CO
CO1	Understand the architecture and the functional blocks of Internet of Things.
CO2	Explain the concepts of Internet of Things and gain knowledge to design IoT applications
CO3	Demonstrate the process of capturing and analyzing data in Internet of Things.
CO4	Examine the various components involved in IoT design methodology.
CO5	Evaluate an IoT device to work with a Cloud Computing infrastructure.
CO6	Implement IoT protocols for communication.