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-213 Course Name: Wireless Sensor Networks

LTC 314

LEARNING OBJECTIVES

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

- 1. Understand about the basics of wireless communication and wireless sensor network.
- 2. Study about various types of protocols in different layers of wireless sensor network.
- 3. Understand the different applications of wireless sensor network.

PRE-REQUISITES

Computer Networks

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 #
C01	Explain the underlying technology and	BTL2	P01, P02
	architecture of a Wireless sensor network.	DILL	
CO2	Analyse the different variants of Operating	BTL4	PO1, PO2, PO3
	systems in wireless sensor networks	DIL4	
CO3	Examine the various types of protocols in MAC	BTL4	PO1, PO2, PO3,
	layer, network layer and transport layer	DIL4	PO6, PO10
CO4	Evaluate real world problems using		PO1, PO2, PO3,
	appropriate sensor devices.	BTL5	PO4, PO5, PO6,
			P07, P010
CO5	Design different applications for network	BTL6	PO1, PO2, PO3,
	management		PO4, PO5, PO6,
			P07, P08, P09,
			PO10, PO11