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-261 Course Name: Design and Analysis of Algorithms Lab. L T C 0 2 1

LEARNING OBJECTIVES

In this course, the learners will be able to develop working expertise of implementation and expressing the algorithmic solutions using programming languages.

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	Apply logical thinking to build solutions for	BTL3	PO1, PO2, PO3,
	given problems.		P05
CO2	Evaluate correctness & efficiency of algorithms	BTL5	PO1, PO2, PO3,
	using inductive proofs and invariants.	DILJ	PO4, PO5
CO3	Design and perform parameter-based analysis		PO1, PO2, PO3,
	of the searching, sorting and tree-based	BTL6	PO4, PO5, PO6,
	algorithms.		P010
CO4	Create and test optimal solutions for various		PO1, PO2, PO3,
	problems.	BTL6	PO4, PO5, PO6,
			PO7, PO9, PO10,
			P011