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-245   **L T C**
Course Name: Software Quality Management   **3 1 4**

LEARNING OBJECTIVES

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

1. Concepts of parallelism which enhances the speed of operations of an OS.

2. Various architectures of multiprocessor are taught.

PRE-REQUISITES

1. The concepts of Computer System and Architecture. 2. Introduction of Operating System.

2. 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	Define the terminology associated with parallel computing, such as efficiency and speedup	BTL1	PO1
CO2	Demonstrate different parallel architectures and inter-connect networks	BTL2	PO1, PO2
CO3	Identify the challenges in efficient implementation of large-scale parallel applications	BTL3	PO1, PO2, PO3,
CO4	Analyze the hardware and software challenges in parallelism	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO5	Assess different parallel programming models, and algorithms	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10, PO11