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-231   **L T C**
Course Name: Service Oriented Architecture   **3 1 4**

LEARNING OBJECTIVES

In this course, the learners will be able to develop understanding and expertise related to

the important concepts and advanced features of contemporary Software Solution

Architectures, as detailed here under: -

1. Understand goals of Service-Orientation (SO), its benefits and effects on an Enterprise.

2. Introduction to XML and its Advantages.

3. Analysis and Design of Service-Oriented Solutions.

4. Understand Web Services, REST API Services, Microservices and Contract Design.

PRE-REQUISITES

1. Programming Experience

2. Database Management System

3. Computer Networks

4. Software Engineering

5. Web Technologies

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 Service Oriented Architecture, Service Oriented Application, Big Data, Cloud and Containers	BTL2	PO1, PO2, PO3,
CO2	Apply XML in Service Oriented based Solution for a given problem	BTL3	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10
CO3	Analyze the architecture of Service Oriented solution for any given specific problem.	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10
CO4	Assess Microservices based solution with other approaches.	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11