

# 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-104**

**Course Name: Object Oriented Software Engineering**

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### LEARNING OBJECTIVES:

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

- 1.To understand the iterative implementation of software projects.
- 2.To analyze projects using use case modeling tools.
- 3.To develop solutions for real life cases using design models and patterns.
- 4.To understand and implement project design requirements for user interface, data layer and system controls.
- 5.To apply modern case tools to develop solutions.

### PRE-REQUISITES:

1. Software Engineering Concepts
2. Object Oriented Programming Concepts

### 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	Illustrate system modeling and architecture using UML	BTL2	P01, P02, P03, P07
CO2	Apply suitable iterative process model	BTL 3	P01, P02, P03, P04, P07, P011
CO3	Analyze requirements with use cases.	BTL 4	P01, P02, P03, P04, P06, P07, P010
CO4	Appraise analysis and design artifacts	BTL 5	P01, P02, P03, P04, P07, P011
CO5	Create domain models for analysis phase	BTL 6	P01, P02, P03, P04, P07, P011
CO6	Design object solutions with patterns and architectural layers	BTL 6	P01, P02, P03, P04, P07, P010, P011