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- 166   **L T C**
Course Name: Object Oriented Software Engineering Lab   **0 2 1**

LEARNING OBJECTIVES:

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

1. Basic programming constructs and functions in python.
2. Understand the applicability of data structures like lists, tuples, sets and dictionaries in python applications.
3. Use object-oriented programming features of python to develop applications.
4. Learn how to use exception handling in applications for error handling.
5. Design GUI based applications with database connectivity operations

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	Demonstrate program creation in Python through usage of appropriate constructs and OOPs concepts.	BTL2	PO1, P02, P03, PO4, PO5
CO2	Apply the concepts of data structures and string functions in python program.	BTL3	PO1, P02, P03, PO4, PO5
CO3	Apply the concepts of file handling and exception handling.	BTL3	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO4	Evaluate and visualize the data using appropriate python libraries	BTL5	PO1, PO2, PO3, PO4, PO10
CO5	Develop GUI based applications with database connectivity in Python.	BTL6	POL, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12