Department of Information, Communication & Technology

Master Of Computer Applications (MCA)

Scheme and Syllabus (w.e.f. Academic Session 2020-21 onwards)

Course Code: MCA-106   **L T C**
Course Name: Python Programming   **3 1 4**

LEARNING OBJECTIVES:

In this course, the learners will be able to develop expertise related to the following: -
1. Master the fundamentals of writing Python scripts
2. Understand decision-making and functions in python
3. interpret Object-oriented programming features in python
4. Gain knowledge of data structures in python
5. Explore GUI programming and database operations in python

PRE-REQUISITES:

Problem Solving Skills

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 knowledge of basic programming constructs in python.	BTL2	PO1, PO2, PO3, PO5
CO2	Illustrate string handling methods and user defined functions in python.	BTL2	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO3	Apply data structure primitives like lists, tuples, sets and dictionaries.	BTL3	PO1, PO2, PO3, PO4, PO5, PO10
CO4	Inspect file handling and object- oriented programming techniques.	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO5	Evaluate and visualize the data using appropriate python libraries.	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10, PO11
CO6	Develop python applications with database connectivity operations.	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12