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-205   **L T C**
Course Name: Statistics and Data Analytics   **3 1 4**

LEARNING OBJECTIVES

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

1. Descriptive and inferential statistics and its application to real world problems.

2. Data analysis using different statistical tools and techniques

PRE-REQUISITES

1. Basic knowledge of Mathematical Logic

2. Linear algebra

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 fundamental concepts and terminologies of statistics and data analytics	BTL1	PO1, PO2, PO5
CO2	Experiment with various measures of central tendency, dispersion, shape and their implication.	BTL2	PO1, PO2, PO3, PO5
CO3	Apply probability and probability distribution primitives	BTL3	PO1, PO2, PO3, PO4, PO5
CO4	Examine hypothesis testing and use inferential statistics- T, F, Z and Chi Square Test	BTL4	PO1, PO2, PO3, PO4, PO5, PO6
CO5	Assess analysis of variance for specific cases.	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12