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-223   **L T C**
Course Name: Cloud Computing   **3 1 4**

LEARNING OBJECTIVES

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

1. Cloud Computing Basic concepts and its applications.

2. Virtualization and its role in the implementation of cloud computing.

3. Data centre overview and its architecture.

4. Popular public clouds and their features.

5. Security issues in cloud and available countermeasures.

PRE-REQUISITES

1. Computer Networks

2. Linux

3. Programming in Web Technologies / Full Stack Development

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	Identify the importance of Cloud Computing Paradigm, Cloud Security primitives & Load Configurations	BTL3	PO1, PO2
CO2	Model and apply the concepts of Virtualization and Security in the cloud computing environment.	BTL3	PO1, PO2, PO3, PO6, PO10
CO3	Analyze the concept of Data Centres with Cloud Computing and examine the Use cases of various Cloud Computing Titans.	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10
CO4	Design & Appraise Cloud Computing based VMS and weigh the advantages & disadvantages of various proprietary platforms along with available best practices.	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, P9, PO10, PO11