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-161   **LT/P C**
Course Name: COMPUTER NETWORKS LAB.   **0 2 1**

LEARNING OBJECTIVES:

ln this course, the learners will be able to develop the working expertise of the following: -
1. Operating principles of computer networking and acquire practical notions of various communication protocols.
2. Analysing the network routing algorithms and a practical approach to Ethernet/internet et networking.
3. Implementing the concept of data transfer between nodes.
4. Assembling of networks, and experimenting to understand the layered architecture.
5. Evaluating the challenges in building networks for organizations.

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	Interpret suitable Network Simulator	BTL2	PO1, PO2, PO3, PO4, PO5
CO2	Apply network configuration skills to design specific network scenarios.	BTL3	PO1, PO2, PO3, PO4, PO5, PO7
CO3	Make use of various connecting devices and LAN connectivity to build networks.	BTL3	PO1, PO2, PO3, PO4, PO5, PO7, PO11
CO4	Simulate the working and analyze the performance of various communication protocols.	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10
CO5	Evaluate routing in the networks and compare different routing algorithms	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10
CO6	Work in teams to design networks for real life scenarios by applying the concepts of all the layered architecture.	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PO12