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- 105   **L T C**
Course Name: Operating Systems With Linux   **3 1 4**
LEARNING OBJECTIVES:

ln this course, the learners will be able to develop expertise related to the following: -
1. Understand the basic components of Operating Systems and their interactions.
2. Select the policies for Process Management, Memory Management and Deadlock Management.
3. Understand the basics of File, Device and Disk Storage Management.

PRE-REQUTSTTES:

1. Fundamentals of Computer Systems.

2. introduction to Programming.

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 the structure and functions of Operating Systems along with their components, types and working.	BTL2	PO1, PO2, PO5, PO6
CO2	Make use of appropriate Linux commands for Memory Management, File Management and Directory Management.	BTL3	PO1, PO2, PO3, PO4, PO5, PO6
CO3	Analyze the performance of different Scheduling algorithms along with the policies for Concurrency and Deadlock management.	BTL4	PO1, PO2, PO3,
CO4	Elaborate the System Calls for Process management and File Management.	BTL6	PO4, PO5, PO6