

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-163

Course Name: Operating Systems with Linux Lab.

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LEARNING OBJECTIVES:

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

1. Perform Linux Operating System installation.
2. Implement the policies of process Management, Inter Process Communication and Memory Management
3. Apply the basics of File Management, Device and Disk Storage Management

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	Build the Linux operating system and configure it.	BTL3	PO1, PO2, PO3, PO4, PO5
CO2	Discover Linux commands for working with Linux Environment	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO7
CO3	Appraise the Process Management algorithms, Process Management system calls, Inter Process Communication and CPU Scheduling algorithms	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10
CO4	Create programs using systems calls for memory management and File Management in C programming, also simulate Deadlock avoidance algorithm using C.	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12