

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-221

Course Name: Distributed Systems

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LEARNING OBJECTIVES

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

1. Fundamental knowledge of crypto graphical technologies.
2. Security properties of the crypto graphical techniques.
3. Classical and modern crypto graphical techniques.
4. how secure systems are engineered.

PRE-REQUISITES

Fundamental knowledge of Number Theory & Modular Arithmetic

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 basic primitives underlying the classical and modern cryptographic techniques.	BTL2	P01, P02
CO2	Demonstrate how security properties are defined and proven at cryptographic level.	BTL2	P01, P02, P03
CO3	Identify common attacks and crypto graphical techniques to prevent them.	BTL3	P01, P02, P03, P04, P05, P06, P010
CO4	Analyze and apply appropriate cryptographic techniques to security engineer the problem at hand.	BTL4	P01, P02, P03, P04, P05, P06, P07, P09, P010, P011