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- 126   **L T C**
Course Name: Information Security   **3 1 4**

LEARNING OBJECTIVES:

ln this course, the learners will be able to gain experience related to the following: -

1. Various technical and management aspects of information security.
2. Security requirements within an organization.
3. Threats, malware through the analysis of worms, viruses, Trojans.
4. Make students aware of the various technologies to implement appropriate security measures within an organization

PRE-REQUISITES:

1. Fundamentals of computer system.
2. Basics information systems and security

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	Recall varied risks related to information security	BTLl	PO1, PO2
CO2	ldentify threats, vulnerabilities and countermeasures to prevent attacks on information	BTL2	POL, PO2, PO3, PO4, PO6, PO10
CO3	Apply risk and lT security guidelines on software security, database security, network security and computer security audit on various types of industries	BTL3	PO1, POz, PO3, PO4, PO5, PO6, PO10
CO4	lnspect appropriate security requirements for proper control and security from worms, Trojans, viruses etc.	BTL4	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO5	Create user identification and authentication methods.	BTL5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11