TECNIA INSTITUTE OF ADVANCED STUDIES

Grade 'A' Institute

Department of Information, Communication & Technology

Bachelor of Computer Applications (BCA)

Scheme and Syllabus (w.e.f. AS 2021-22)

COURSE CODE: BCAP 213

COURSE NAME: CYBER SECURITY LAB

LEARNING OBJECTIVES

1. Define cybersecurity and describe key terms and key security roles and functions within an IT organization.
2. Describe the key roles within Cybersecurity.
3. Practice researching cybersecurity knowledge areas using the SANS institute's research documents and Internet Storm Center.
4. Describe the challenges organizations face which require compliance and regulation.

PRE-REQUISITES:

Fundamentals of Information Technology

COURSE OUTCOMES (COs):

After completion of this course, the learners will be able to: -

CO #	Detailed Statement of the CO
CO1	Explain security concepts, Ethics in Network Security. Identify and classify various Attacks and explain the same
CO2	Compare and contrast symmetric and asymmetric encryption systems and their vulnerability to various attacks.
CO3	Explain the role of third-party agents in the provision of authentication services.
CO4	Comprehend and apply authentication, email security, web security services and mechanisms.
CO5	Distinguish and explain different protocol like SSL, TLS Vis-à-vis their applications
CO6	Discuss the effectiveness of passwords in access control. Explain firewall principles.