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 313 COURSE

NAME: WEB SECURITY LAB

LEARNING OBJECTIVES:

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

1. Students will be able to learn the techniques needed for providing protection and security to our data and information resources over internet.
2. To understand and learn web application and its Architecture.
3. Students will be able to develop awareness regarding Cyber laws and crimes.
4. Students will be able to understand the internet and web application security issues.
5. Students will be able to learn and understand wireless network security issues.
6. To learn and understand the concept of web services, ajax and other technology which are helpful.

PRE-REQUISITES:

1. Computer Network
2. C/C++/HTML (Programming Knowledge of C/C++/HTML/JS)

COURSE OUTCOMES (COs):

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

CO#	Detailed Statement of the CO
CO1	Define overall web security infrastructure, components, issues and basic concept etc.
CO2	Describe briefly various types of security like social media security, email security, web application and web services security etc. Explain Web related services.
CO3	Apply and implementing various vulnerabilities for Ethically hacking a websites / Web Applications.
CO4	Focusing Penetration Testing, Computer Forensics.
CO5	Evaluate different web security algorithms with the help of program.
CO6	Design and implement XSS attacks, SQL Injection attack, Password hashing and cracking.