

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 216

COURSE NAME: NETWORK 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 about basic security issues and concepts of Network Security.
2. Students will be able to understand the Describe briefly the use of Cryptography and Steganography.
3. To develop graduates that can identify, analyze, and remediate network security breaches.
4. To learn about Firewall and his principles.
5. Students will be able to understand the concept of Kerberos and use of this.
6. To Design and Implement different network security algorithm by using Program.
7. Students will be able to understand the computer network and secure network communication issues along with their remedies.
8. Students will be able to learn and evaluate the different algorithm by using Program.

PRE-REQUISITES:

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

COURSE OUTCOMES (COs):

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

| CO# | Detailed Statement of the CO |
|-----|---|
| CO1 | Define and explain the issues and basic concepts of Network Security. To understand how to draw a network model. |
| CO2 | To Explain, understand and summarize the concepts, types and features of Firewall. |
| CO3 | Explain and implement working of authentication, authorization, Packet security, IP Security, Firewall by using some suitable examples. |
| CO4 | Classify and organize the architecture of network security management. |
| CO5 | Evaluate different Network Security algorithms with the help of program. |
| CO6 | Design and create a network security architecture for an organization. |