



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(IoT and
Cybersecurity Including BCT)**

COURSE NAME : Fundamentals Of Cryptography

II YEAR / III SEMESTER

Unit I

Topic :Active and Passive Attacks

Security services and mechanism

Security services and mechanisms are fundamental components of cryptography. Security Services includes:

1. Confidentiality: Also known as encryption, this service ensures that information remains private and hidden from unauthorized entities.

2. Integrity: This service ensures that information is not altered or tampered with during transmission or storage. Any unauthorized modifications to the data can be detected.

3. Authentication: This service verifies the identity of communicating parties. It prevents impersonation and ensures that the sender and receiver are who they claim to be.

4. Non-Repudiation: Non-repudiation prevents the sender of a message from denying that they sent it. It provides evidence that a message was indeed sent or received.

5. Access Control: This service regulates who can access certain information or perform specific actions. It helps prevent unauthorized access.