



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
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 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

19ITB302-Cryptography and Network Security

UNIT-1 INTRODUCTION TO ENCRYPTION STANDARD



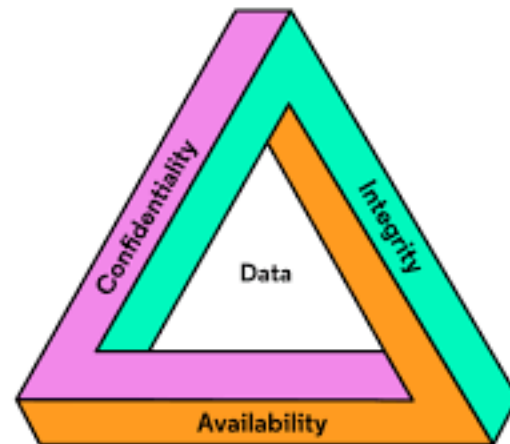
Computer Security Concepts



Cryptography-“crypt” means hidden “graphy” means writing

CIA Triad

- Three Key principles which should be guaranteed in any kind of secure systems





Confidentiality

Confidentiality is defined as the process of protecting sensitive information from unauthorized access by converting it into an unreadable form. This process ensures that only authorized persons can decrypt and read the information.

Integrity

Integrity refers to the assurance that information is trustworthy and accurate. It ensures that the data remains unchanged from its original form during transmission or storage.

Availability

Ensuring timely and reliable access to and use of information. This means that information should be available whenever it is required by an authorized user or system.