



JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR  
Government of Rajasthan established  
Through ACT No. 17 of 2008 as per UGC ACT 1956  
NAAC Accredited University

**Faculty of Education and methodology**

**Department of Science and Technology**

**Faculty Name-** Jv'n Narendra Kumar Chahar (Assistant Professor)

**Program-** B.Tech 8<sup>th</sup>Semester

**Course Name** – Cryptography and Network Security

**Session no.:** 04

**Session Name-** Security Attacks

Academic Day starts with –

- Greeting with saying '**Namaste**' by joining Hands together following by 2-3 Minutes Happy session, Celebrating birthday of any student of respective class and **National Anthem**.

Lecture starts with- quotations' answer writing

Review of previous Session – **Security Services and Mechanisms**

Topic to be discussed today- Today We will discuss about **Security Attacks**

Lesson deliverance (ICT, Diagrams & Live Example)-

- Diagrams

Introduction & Brief Discussion about the Topic – **Introduction to Security Attacks**

# Security Attacks

## Security Attacks

There are four general categories of attack which are listed below.

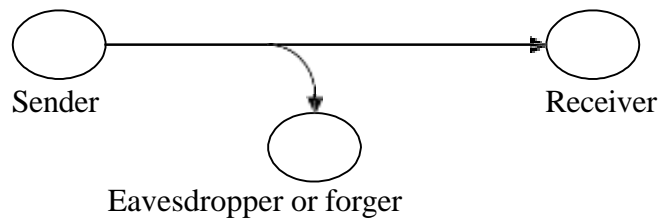
### *Interruption*

An asset of the system is destroyed or becomes unavailable or unusable. This is an attack on availability e.g., destruction of piece of hardware, cutting of a communication line or Disabling of file management system.

### *Interception*

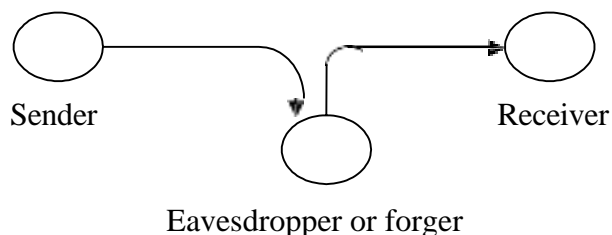
An unauthorized party gains access to an asset. This is an attack on confidentiality.

Unauthorized party could be a person, a program or a computer. e.g., wiretapping to capture data in the network, illicit copying of files



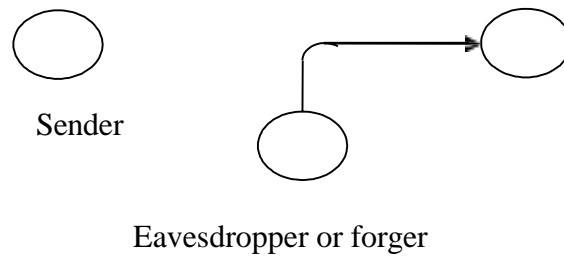
### *Modification*

An unauthorized party not only gains access to but tampers with an asset. This is an attack on integrity. e.g., changing values in data file, altering a program, modifying the contents of messages being transmitted in a network.



## ***Fabrication***

An unauthorized party inserts counterfeit objects into the system. This is an attack on authenticity. e.g., insertion of spurious message in a network or addition of records to a file.



## **Reference-**

1. **Book:** William Stallings, “Cryptography & Network Security”, Pearson Education, 4th Edition 2006.

## **QUESTIONS: -**

**Q1. Explain various security attacks.**

Next, we will discuss about Cryptographic Attacks.

- Academic Day ends with-  
National song ‘Vande Mataram’