

Amrutvahini College of Engineering

Department of Artificial Intelligence and Data Science

Innovative Pedagogy Techniques

Name of Faculty: Mrs. V.A.Naikwadi	Subject: Cyber Security
Class: TE (A)	Academic year: 2025-26 (Sem-IV)

1. Brainstorming was used for following topics:

Unit no.	Name of the topic
1	Case Study - Data Breach due to Weak Security Policy
2	Case Study- Develop server-side code for blogging application
3	Case Study- Develop server-side code for blogging application
4	Case Study - Secure Remote Access Using VPN
5	Case Study - Intrusion Detection System Identifying Network Attack
6.	Case Study - Intrusion Detection System Identifying Network Attack

2. Seminar/ Presentation:-

Unit no.	Name of the topic
1	Phishing Attack on Students
2	Security Weakness in DES Encryption Algorithm
3	Secure Online Banking using RSA
4	Secure Remote Access Using VPN
5	Intrusion Detection System Identifying Network Attack
6.	Cyber Stalking via Social Media Platforms

3. Animation:

Unit no.	Name of the topic
2	Working of DES Encryption and Decryption Process
4.	VPN Tunnel Establishment and Secure Communication
5	Firewall Packet Filtering and IDS Detection Mechanism

4. Videos:

Unit no.	Name of the topic
3	Awareness Video on Phishing Attacks and Password Security

5. Quiz

Unit no.	Name of the topic
2	Encryption Techniques and Standards
3	Public Key Cryptography

6. Role-play

Unit no.	Name of the topic
On the basis of all units	After completion of all Cyber Security units, students performed role play on "How to Prevent Cyber Attacks in Educational Institutes".

Mr. V.A.Naikwadi
Subject Teacher

Dr. A. R. Panhalkar
Head of Department

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Case Study

Unit no.	Name of the topic	Students Name
1	Case Study - Data Breach due to Weak Security Policy	Roll No- 1-7
2	Case Study- Security Weakness in DES Encryption Algorithm	Roll No- 22-28
3	Case study - Man-in-the-Middle Attack Due to Insecure Key Exchange	Roll No- 36-42
4	Case study- Secure Remote Access Using VPN	Roll No- 43-49
5	Case Study- Intrusion Detection System Identifying Network Attack	Roll No- 50-56
6.	Cyber Stalking via Social Media Platforms	Roll No- 57-67

Mr. V.A. Naikwadi
Subject Teacher

Dr. A. R. Panhalkar
Head of Department