

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

PANIPAT

DEPARTMENT OF CYBER SECURITY

LESSON PLAN

Subject: Security Threats and Trends

Subject Code: PC-CS-CYS-303A

Semester:5th

Sr. No.	Lecture No.	Topics To BeCovered	Mode of Teaching
1	L 1	Unit 1: Intoduction about Security Threats	Class Room
2	L 2	Motives, Target Assets and vulnerabilities	Smart Class Room
3	L 3	Consequences of threats, Email threats	Class Room
4	L 4	Web, threats, Intruders and Hackers, Insider threats	Class Room
5	L 5	Cyberc rimes. Network Threats: Active/ Passive – Interference – Interception	Smart Class Room
6	L 6	Impersonation – Worms –Virus – Spam’s	Class Room
7	L 7	Ad ware, Spy ware – Trojans and covert channels	Smart Class Room
8	L 8	Backdoors – Bots – IP, Spoofing	Class Room
9	L 9	ARP spoofing, Session Hijacking, Sabotage	Class Room
10	L 10	Internal treats Environmental threats, Threat to Server security.	Class Room
11	L 11	Unit 2: Security Threat Management: Risk Assessment	Class Room
12	L 12	Forensic Analysis	Class Room
13	L 13	Security threat correlation	Class Room
14	L 14	Threat awareness, Vulnerability sources and assessment	Smart Class Room
15	L 15	Vulnerability assessment tools, Threat identification Threat Analysis	Class Room
16	L 16	Threat Modeling	Smart Class Room
17	L 17	Model for Information Security Planning	Class Room
18	L 18	Unit 3: : Authorization and Authentication, types, policies and techniques	Smart Class Room
19	L 19	Security certification, Security monitoring and Auditing	Class Room
20	L 20	Security Requirements Specifications –Security Policies and Procedures	Class Room

21	L 21	Firewalls, IDS	Class Room
22	L 22	Log Files, Honey Pots	Class Room
23	L 23	Unit 4:Access Control Mechanism: Trusted Computing	Class Room
24	L24	Multilevel security	Class Room
25	L 25	Security models	Class Room
26	L 26	Trusted Systems, Software security issues	Class Room
27	L 27	Physical and infrastructure security	Class Room
28	L 28	Human factors – Security awareness	Class Room
29	L 29	Security Training	Class Room
30	L 30	Email and Internet use policies	Class Room