PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY PANIPAT
DEPARTMENT OF INFORMATION TECHNOLOGY

LESSON PLAN

Subject: Cyber Security   **Subject code: OE-IT-402A**

Session: 2022-23   **Semester: VIII**

SNo	Topic	No. of Lec	CO Covered	Teaching Methodology
1	**Unit-1** Introduction: Introduction and Overview of Cyber Crime	1		PPT ,Board
2	Nature and Scope of Cyber Crime	1		PPT ,Board
3	Types of Cyber Crime: crime against individual	1	CO1	PPT ,Board
4	Crime against property	1		PPT ,Board
5	Cyber extortion, Drug trafficking, cyber terrorism	1		PPT ,Board
6	Need for Information security	1		PPT ,Board
7	Threats to Information Systems	1		PPT ,Board
8	Information Assurance	1		PPT ,Board
9	Cyber Security	1		PPT ,Board
10	Security Risk Analysis.			
10	**Unit 2** Cyber Crime Issues: Unauthorized Access to Computers	1		PPT ,Board
11	Computer Intrusions, Viruses and Malicious Code	1	CO2	PPT ,Board, Video
12	Internet Hacking and Cracking , Virus and worms, Software Piracy	1		PPT ,Board, Video
13	Intellectual Property, Mail Bombs, Exploitation	1		PPT ,Board, Video
14	Stalking and Obscenity in Internet, Password Cracking, Steganography	1		PPT ,Board, Video
15	Key loggers and Spyware, Trojan and backdoors	1		PPT ,Board, Video
16	Phishing	1		PPT ,Board, Video
17	DOS and DDOS attack	1		PPT ,Board, Video
18	SQL injection, Buffer Overflow.	1		PPT ,Board, Video
19	**Unit 3** Introduction to cyber attacks: passive	1		PPT ,Board

	attacks, active attacks				
20	Cyber crime prevention methods	1	CO3	PPT ,Board	
21	Application security (Database, E-mail and Internet)	1		PPT ,Board	
22	Data Security Considerations-Backups, Archival Storage and Disposal of Data	1		PPT ,Board	
23	Security Technology-Firewalls	1		PPT ,Board	
24	VPNs	1		PPT ,Board	
25	Intrusion Detection , Access Control	1		PPT ,Board	
26	Hardware protection mechanisms, OS Security	1		PPT ,Board	
27	**Unit 4** Digital Forensics: Introduction to Digital Forensics	1	CO4	PPT ,Board	
28	historical background of digital forensics	1		PPT ,Board	
29	Forensic Software and Hardware	1		PPT ,Board	
30	need for computer forensics science	1		PPT ,Board	
31	special tools and techniques digital forensic life cycle	1		PPT ,Board	
32	challenges in digital forensic	1		PPT ,Board	
33	Law Perspective: Introduction to the Legal Perspectives of Cybercrimes and Cyber security	1		PPT ,Board	
34	Cybercrime and the Legal Landscape around the World	1		PPT ,Board	
35	Why Do We Need Cyber laws, The Indian IT Act	1		PPT ,Board	
36	Cybercrime Scenario in India, Digital Signatures and the Indian IT Act	1		PPT ,Board	
37	Cybercrime and Punishment	1		PPT ,Board	