

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

PANIPAT

DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject: BCC S		Subject code: PC-CS-CYS-402A			
Semester: 8th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Introduction to Blockchain, Importance of Blockchain	White Board +PPT	16.02.2024	19.02.2024
2	L2	Introduction to Blockchain, Importance of Blockchain	White Board +PPT	16.02.2024	19.02.2024
3	L3	need of Blockchain	White Board +PPT	16.02.2024	19.02.2024
4	L4	need of Blockchain	Group Discussion	19.02.2024	20.02.2024
5	L5	types of blockchain	Smart Board	19.02.2024	20.02.2024
6	L6	types of blockchain	White Board +PPT	20.02.2024	21.02.2024
7	L7	Decision Tree	Group Discussion	21.02.2024	22.02.2024
8	L8	Decision Tree	White Board +PPT	22.02.2024	23.02.2024
9	L9	Consensus Mechanism	Group Discussion	23.02.2024	26.02.2024
10	L10	Consensus Mechanism	Smart Board	26.02.2024	29.02.2024
11	L11	Consensus Mechanism	White Board +PPT	29.02.2024	01.03.2024
12	L12	Introduction of Hashing	White Board +PPT	29.02.2024	01.03.2024
13	L13	Introduction of Hashing	Smart Board	01.03.2024	03.03.2024
14	L14	Risk Measurement, Blockchain Governance	White Board +PPT	03.03.2024	14.03.2024
15	L15	Quantum Computing	White Board +PPT	03.03.2024	14.03.2024
16	L16	Quantum Computing	Smart Board	14.03.2024	15.03.2024

17	L17	Smart Contracts	Group Discussion	15.03.2024	18.03.2024
18	L18	Solidity Language Overview, Storage, Memory	White Board +PPT	18.03.2024	26.03.2024
19	L19	Solidity Language Overview, Storage, Memory	Group Discussion	18.03.2024	26.03.2024
20	L20	Call Data, Function Selectors	White Board +PPT	18.03.2024	26.03.2024
21	L21	Call Data, Function Selectors	White Board +PPT	26.03.2024	09.04.2024
22	L22	Call Data, Function Selectors	Group Discussion	09.04.2024	11.04.2024
23	L23	Interacting with EVM Smart Contracts	White Board +PPT	11.04.2024	15.04.2024
24	L24	Interacting with EVM Smart Contracts	Group Discussion	11.04.2024	15.04.2024
25	L25	Compiling and Deploying Contracts	White Board +PPT	15.04.2024	16.04.2024
26	L26	Compiling and Deploying Contracts	Smart Board	16.04.2024	23.04.2024
27	L27	Security Hacks on Ethereum	White Board +PPT	23.04.2024	24.04.2024
28	L28	Security Hacks on Ethereum	White Board +PPT	23.04.2024	24.04.2024
29	L29	Common Vulnerabilities and Attacks	White Board +PPT	24.04.2024	29.04.2024
30	L30	Common Vulnerabilities and Attacks	White Board +PPT	24.04.2024	29.04.2024
31	L31	Case Study: The DAO Hack	White Board +PPT	29.04.2024	30.04.2024
32	L32	Case Study: The DAO Hack	Smart Board	30.04.2024	01.05.2024
33	L33	Case Study: The Poly-Network Hack	Smart Board	01.05.2024	07.05.2024

34	L34	Case Study: The Poly- Network Hack	White Board +PPT	07.05.2024	08.05.2024
35	L-35	Case Study: The Poly- Network Hack	Group Discussion	07.05.2024	08.05.2024

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Subject:DI	Subject code: OE-CS-CYS-410				
Semester: 8th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Cyber security	White Board +PPT	15.02.2024	16.02.2024
2	L2	Cyber security	White Board +PPT	15.02.2024	16.02.2024
3	L3	Cyber-attack	Smart Board	16.02.2024	19.02.2024
4	L4	Cyber Warfare	White Board +PPT	16.02.2024	19.02.2024
5	L5	types of web attacks	Smart Board	16.02.2024	19.02.2024
6	L6	Privacy attack	Group Discussion	20.02.2024	21.02.2024
7	L7	SQL Injection Attacks	White Board +PPT	21.02.2024	22.02.2024
8	L8	web attack forensics	White Board +PPT	22.02.2024	23.02.2024
9	L9	Doubt session	Smart Board	22.02.2024	26.02.2024
10	L10	Injection vulnerabilities	Smart Board	26.02.2024	29.02.2024
11	L11	Type of Injection SQL Injection	White Board +PPT	26.02.2024	29.02.2024
12	L12	Blind Injection Detection	Group Discussion	29.02.2024	01.03.2024
13	L13	Cross-Site Scripting	Smart Board	29.02.2024	01.03.2024
14	L14	Broken Authentication	White Board +PPT	01.03.2024	01.03.2024
15	L15	Insecure Direct Object References	Smart Board	01.03.2024	03.03.2024
16	L16	Failure to Restrict URL	White Board +PPT	03.03.2024	14.03.2024
17	L17	Session Management	Group Discussion	03.03.2024	14.03.2024
18	L18	Injection Attacks	White Board +PPT	14.03.2024	15.03.2024

19	L19	Practical regarding web attacks	White Board +PPT	15.03.2024	18.03.2024
20	L20	Remote Code Execution.	White Board +PPT	18.03.2024	26.03.2024
21	L21	Hacking Web Applications & SQL Injection.	White Board +PPT	18.03.2024	26.03.2024
22	L22	Hacking Web Servers	Group Discussion	26.03.2024	09.04.2024
23	L23	Types of Web Server Vulnerabilities	Smart Board	09.04.2024	11.04.2024
24	L24	Attacks against Web Servers	White Board +PPT	09.04.2024	11.04.2024
25	L25	IIS Unicode Exploits	Smart Board	11.04.2024	15.04.2024
26	L26	Patch Management Techniques	White Board +PPT	15.04.2024	16.04.2024
27	L27	Web Server Hardening Methods	Group Discussion	16.04.2024	23.04.2024
28	L28	Web Application Vulnerabilities	White Board +PPT	23.04.2024	24.04.2024
29	L29	Objectives of Web Application Hacking	White Board +PPT	23.04.2024	24.04.2024
30	L30	SQL Injection and Buffer Overflows	White Board +PPT	24.04.2024	30.04.2024
31	L31	SQL Injection, Steps to Conduct SQL Injection	Group Discussion	30.04.2024	30.04.2024
32	L32	SQL Server Vulnerabilities	Revision	30.04.2024	01.05.2024
33	L33	Types of Buffer Overflows and Methods of Detection	White Board +PPT	01.05.2024	01.05.2024
34	L34	Countermeasures Buffer Overflows	Group Discussion	01.05.2024	05.05.2024
35	L-35	Stack Based Buffer Overflows	White Board +PPT	05.05.2024	07.05.2024

36	L-36	Doubt session	White Board +PPT	07.05.2024	08.05.2024
37	L-37	Buffer Overflow Mutation Techniques	White Board +PPT	07.05.2024	08.05.2024

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:ENS	Subject Code: HSS-404A				
Semester: 8th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Meaning and concept of entrepreneurship	Group Discussion	15.02.2024	16.02.2024
2	L2	Meaning and concept of entrepreneurship	Group Discussion	15.02.2024	16.02.2024
3	L3	History of entrepreneurship	White Board +PPT	16.02.2024	19.02.2024
4	L4	ROLE OF entrepreneurship in economic development	Group Discussion	16.02.2024	19.02.2024
5	L5	Creative and Design on thinking	White Board +PPT	19.02.2024	20.02.2024
6	L6	Creative and Design on thinking	White Board +PPT	19.02.2024	20.02.2024
7	L7	The entrepreneurship decision process	Group Discussion	20.02.2024	21.02.2024
8	L8	The entrepreneurship decision process	White Board +PPT	21.02.2024	22.02.2024
9	L9	Introduction to business model	Group Discussion	22.02.2024	23.02.2024
10	L10	entrepreneurial success stories	White Board +PPT	23.02.2024	26.02.2024
11	L11	entrepreneurial success stories	Smart Board	26.02.2024	29.02.2024
12	L12	Value innovation logic	White Board +PPT	29.02.2024	01.03.2024
13	L13	Value innovation logic	White Board +PPT	29.02.2024	01.03.2024

14	L14	customer focused innovation	White Board +PPT	01.03.2024	03.03.2024
15	L15	customer focused innovation	White Board +PPT	03.03.2024	14.03.2024
16	L16	Building and analyzing business models;	White Board +PPT	03.03.2024	14.03.2024
17	L17	Building and analyzing business models;	Smart Board	14.03.2024	15.03.2024
18	L18	Introduction to lean start-ups,	Smart Board	15.03.2024	18.03.2024
19	L19	Introduction to lean start-ups,	Group Discussion	18.03.2024	26.03.2024
20	L20	Introduction to lean start-ups,	Revision	18.03.2024	26.03.2024
21	L21	Introduction to detail learn start-ups,	Group Discussion	18.03.2024	26.03.2024
22	L22	Introduction to detail learn start-ups,	White Board +PPT	26.03.2024	09.04.2024
23	L23	Introduction to detail learn start-ups,	White Board +PPT	09.04.2024	11.04.2024
24	L24	Business pitching	Group Discussion	11.04.2024	15.04.2024
25	L25	Business pitching	White Board +PPT	11.04.2024	15.04.2024
26	L26	Central level institution. state level institutions	Group Discussion	15.04.2024	16.04.2024
27	L27	Central level institution. state level institutions	White Board +PPT	16.04.2024	23.04.2024
28	L28	Test		23.04.2024	24.04.2024
29	L29	Other agencies, Industry Associations	White Board +PPT	23.04.2024	24.04.2024

30	L30	Other agencies, Industry Associations	White Board +PPT	24.04.2024	29.04.2024
31	L31	Class exercise Class exercise-discussions on current government schemes supporting entrepreneurship	White Board +PPT	24.04.2024	29.04.2024
32	L32	Class exercise Class exercise-discussions on current government schemes supporting entrepreneurship	White Board +PPT	29.04.2024	30.04.2024
33	L33	Class exercise Class exercise-discussions on current government schemes supporting entrepreneurship	White Board +PPT	30.04.2024	01.05.2024
34	L34	finding out which scheme will most suit the business plan devised by the student	Smart Board	01.05.2024	07.05.2024
35	L-35	finding out which scheme will most suit the business plan devised by the student	Revision	07.05.2024	08.05.2024
36	L-36	finding out which scheme will most suit the business plan devised by the student	Revision	07.05.2024	08.05.2024

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LESSON PLAN

Subject:IDPS		Subject code: PE-CS-CYS-422A			
Semester: 8th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Architecture Implementation, Uses of IDPS Technologies, Key Functions, Common Detection	WhiteBoard,PP	15.02.2024	16.02.2024
2	L 2	Architecture Implementation, Uses of IDPS Technologies, Key Functions, Common Detection	WhiteBoard,PP	15.02.2024	16.02.2024
3	L 3	Methodologies -- Signature, Anomaly and	WhiteBoard,PP	16.02.2024	19.02.2024
4	L 4		WhiteBoard,PP	16.02.2024	19.02.2024
5	L 5	Types of IDPS Technologies.	WhiteBoard,PP	19.02.2024	20.02.2024
6	L 6	Application, Transport, Network and Hardware Layer attacks, Sniffing	Online video	20.02.2024	21.02.2024
7	L 7	DoS Dangers	WhiteBoard,PP	21.02.2024	22.02.2024
8	L 8	Spoofing, Defense- in-Depth Approach, Port Security,	PPT	22.02.2024	23.02.2024
9	L 9	Technologies, Key Functions,	WhiteBoard,PP	22.02.2024	26.02.2024
10	L 10	Common Detection	PPT	26.02.2024	29.02.2024
11	L 11	Common Detection	PPT	26.02.2024	29.02.2024

12	L 12	Secure Socket Layer attacks, DNS	Group Discussion	29.02.2024	01.03.2024
13	L 13	Use Encrypted Protocols	PPT	29.02.2024	01.03.2024
14	L 14	defenses with Man-in the Middle,	Group Discussion	01.03.2024	01.03.2024
15	L 15	Network Behavior Analysis: Components and Architecture Typical, Network Architecture, Sensor	PPT	01.03.2024	03.03.2024
16	L 16	Setting up the Realistic Environment, Open Canary	WhiteBoard,PP	03.03.2024	14.03.2024
17	L 17	Detecting the Attack - Intrusion Detection,	Group Discussion	03.03.2024	14.03.2024
18	L 18	Working with SNORT IDS:	WhiteBoard,PP	14.03.2024	15.03.2024
19	L 19	Snort Alert Modes and Rule Headers, Rule Options, Format, Working	WhiteBoard,PP	15.03.2024	18.03.2024
20	L 20	Direct and Indirect, Firewalls, Routers and Honeypots	WhiteBoard,PP	18.03.2024	26.03.2024
21	L 21	IPS using IP Trace back -	WhiteBoard,PP	18.03.2024	26.03.2024
22	L 22	Deterministic	WhiteBoard,PP	26.03.2024	09.04.2024
23	L 23	Probabilistic	WhiteBoard,PP	09.04.2024	11.04.2024
24	L 24	Exception WLAN Standards,	WhiteBoard,PP	09.04.2024	11.04.2024
25	L 25	WLAN Components	Group Discussion	11.04.2024	15.04.2024

26	L 26	WLAN Components	Group Discussion	15.04.2024	16.04.2024
27	L 27	Packet Marking, Marking.	On Board	16.04.2024	23.04.2024
28	L 28	Introduction to with Snort Rules, Rule ,	On Board	23.04.2024	24.04.2024
29	L 29	Headers, Rule Options	PPT	23.04.2024	24.04.2024
30	L 30	Threats against WLANs,	PPT	24.04.2024	30.04.2024
31	L31	Personal Digital	PPT	30.04.2024	01.05.2024
32	L 32	802.11 Wireless Infrastructure	PPT	30.04.2024	01.05.2024
33	L 33	Assistance	WhiteBoard,PP	01.05.2024	07.05.2024
34	L 34	Attacks, WEP Attacks	PPT	01.05.2024	07.05.2024
35	L 35	Other Hybrid Devices Attack Detection, Jailbreaking.	PPT	07.05.2024	08.05.2024

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Subject:PT	Subject code: PE-CS-CYS-414A				
Semester: 8th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Blue/Red Teaming, Strategies of Testing, Non-Disclosure Agreement Checklist	PPT	16.02.2024	19.02.2024
2	L2	Blue/Red Teaming, Strategies of Testing, Non-Disclosure Agreement Checklist	PPT	16.02.2024	19.02.2024
3	L3	Phases of hacking, Open-source/proprietary Pentest Methodologies	PPT	16.02.2024	19.02.2024
4	L4	Pentest Scoping: The mindset of the professional Pen Tester	PPT	19.02.2024	20.02.2024
5	L5	Creating effective pen test scopes and rules of engagement.	PPT	19.02.2024	20.02.2024
6	L6	Recon: Detailed Recon Using the Latest	PPT	20.02.2024	21.02.2024
7	L7	Tools Mining Search Engine Results,	PPT	21.02.2024	22.02.2024

8	L8	Google hacking database, Shodan,	PPT	22.02.2024	23.02.2024
9	L9	Information gathering methodologies - Foot printing	PPT	23.02.2024	26.02.2024
10	L10	Competitive Intelligence DNS Enumerations	PPT	26.02.2024	29.02.2024
11	L11	- Social Engineering attacks	PPT	29.02.2024	01.03.2024
12	L12	Port Scanning- Network Scanning	PPT	29.02.2024	01.03.2024
13	L13	Vulnerability Scanning - NMAP scanning tool.	PPT	01.03.2024	03.03.2024
14	L14	System Hacking: Password cracking techniques	PPT	03.03.2024	14.03.2024
15	L15	Key loggers - Escalating privileges - Hiding Files	PPT	03.03.2024	14.03.2024
16	L16	Steganography technologies and its Countermeasures.	PPT	14.03.2024	15.03.2024
17	L17	Revision & Doubt Session	Smart Board	15.03.2024	18.03.2024
18	L18	Class Test-I	Smart Board	15.03.2024	26.03.2024
19	L19	Discussion on solution of Class Test-I	Smart Board	26.03.2024	09.04.2024
20	L20	Active and passive sniffing	PPT	26.03.2024	11.04.2024
21	L21	ARP Poisoning	PPT	11.04.2024	15.04.2024
22	L22	MAC Flooding.	PPT	11.04.2024	15.04.2024

23	L23	SQL Injection - Error based, Union-based, Time- based,	PPT	15.04.2024	16.04.2024
24	L24	Blind SQL, SQL Injection Prevention Techniques.	PPT	16.04.2024	23.04.2024
25	L25	Wireless pen test: Wi-Fi Authentication Modes	PPT	23.04.2024	24.04.2024
26	L26	Bypassing wlan	PPT	23.04.2024	24.04.2024
27	L27	WEP Wifi Security	PPT	24.04.2024	30.04.2024
28	L28	WPA Wifi Security	PPT	30.04.2024	01.05.2024
29	L29	Authentication practically, Attacks on the WLAN Infrastructure, Wi-Fi	PPT	30.04.2024	01.05.2024
30	L30	Deauthentication attack	PPT	01.05.2024	07.05.2024
31	L31	Wireless Hacking Methodology	PPT	01.05.2024	07.05.2024
32	L32	Wireless Traffic Analysis,	PPT	07.05.2024	08.05.2024
33	L33	Packet Capturing, air crack-ng, capturing the handshake, Cracking the handshake	PPT	07.05.2024	08.05.2024
34	L34	WIFI hacking prevention, Legal	PPT	08.05.2024	09.05.2024
35	L35	Revision & Doubt Session	Smart Board	08.05.2024	09.05.2024