

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

PANIPAT

DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:CF	Subject code: PC-CS-CYS-212A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Introduction to security attacks - services and mechanism - introduction to cryptography	Group Discussion	10.02.2024	12.02.2024
2	L2	Conventional Encryption: Conventional encryption model	White Board +PPT	12.02.2024	15.02.2024
3	L3	classical encryption techniques - substitution ciphers and transposition ciphers	Smart Board	15.02.2024	16.02.2024
4	L4	cryptanalysis - steganography	White Board +PPT	16.02.2024	19.02.2024
5	L5	stream and block ciphers	White Board +PPT	16.02.2024	19.02.2024
6	L6	Modern Block Ciphers: Block ciphers principals	White Board +PPT	19.02.2024	22.02.2024
7	L7	Shannon's theory of confusion and diffusion	White Board +PPT	19.02.2024	22.02.2024
8	L8	fiestal structure	White Board +PPT	22.02.2024	23.02.2024

9	L9	data encryption standard(DES) - strength of DES	Smart Board	22.02.2024	23.02.2024
10	L10	differential and linear crypt analysis of DES - block cipher modes of operations - triple DES – AES.	Smart Board	23.02.2024	26.02.2024
11	L11	Principles of public key crypto systems	White Board +PPT	26.02.2024	29.02.2024
12	L12	RSA algorithm - security of RSA - key management	White Board +PPT	29.02.2024	01.03.2024
13	L13	Diffie-Hellman key exchange algorithm	Smart Board	01.03.2024	13.03.2024
14	L14	introductory idea of Elliptic curve cryptography.	White Board +PPT	01.03.2024	13.03.2024
15	L15	MD5 message digest algorithm - Secure hash algorithm (SHA)	White Board +PPT	13.03.2024	15.03.2024
16	L16	Digital Signatures: Digital Signatures - authentication protocols	White Board +PPT	15.03.2024	18.03.2024
17	L17	- digital signature standards (DSS) - proof of digital signature algorithm	White Board +PPT	15.03.2024	18.03.2024

18	L18	directory authentication service	Group Discussion	18.03.2024	03.04.2024
19	L19	electronic mail security-pretty good privacy (PGP) - S/MIME.	White Board +PPT	03.04.2024	10.04.2024
20	L20	Introduction to the Concept of Security	Smart Board	10.04.2024	11.04.2024
21	L21	Cryptographic Techniques	White Board +PPT	11.04.2024	16.04.2024
22	L22	Computer-based Symmetric and Asymmetric Key Cryptographic Algorithms	White Board +PPT	11.04.2024	16.04.2024
23	L23	Public Key Infrastructure (PKI),	White Board +PPT	16.04.2024	18.04.2024
24	L24	Internet Security Protocols, Network Security	White Board +PPT	18.04.2024	19.04.2024
25	L25	Data management technologies, Information security, Information Management Technologies	White Board +PPT	19.04.2024	20.04.2024
26	L26	Data management technologies, Information security, Information Management Technologies	White Board +PPT	19.04.2024	20.04.2024

27	L27	Data management technologies, Information security, Information Management Technologies	White Board +PPT	20.04.2024	21.04.2024
28	L28	Test		20.04.2024	21.04.2024
29	L29	Security policies	Smart Board	21.04.2024	22.04.2024
30	L30	Security policies	Smart Board	21.04.2024	22.04.2024
31	L31	Test		22.04.2024	23.04.2024
32	L32	Policy enforcement & related issues	Smart Board	23.04.2024	24.04.2024
33	L33	Design principles, Security impact on database function.	White Board +PPT	23.04.2024	24.04.2024
34	L34	Design principles, Security impact on database function.	White Board +PPT	24.04.2024	02.05.2024
35	L35	Multi-level rela	White Board +PPT	24.04.2024	02.05.2024
36	L36	Multi-level rela	White Board +PPT	02.05.2024	03.05.2024
37	L37	Defining Intrusion Detection	Smart Board	03.05.2024	15.05.2024
38	L38	Security concepts intrusion Detection concept	White Board +PPT	03.05.2024	15.05.2024
39	L39	Security concepts intrusion Detection concept	White Board +PPT	15.05.2024	20.05.2024
40	L 40	determining strategies for Intrusion Detection,	White Board +PPT	15.05.2024	21.05.2024

41	L 41	determining strategies for Intrusion Detection,	White Board +PPT	21.05.2024	22.05.2024
42	L 42	Responses, Vulnerability Analysis	White Board +PPT	21.05.2024	22.05.2024
43	L 43	Credentialed approaches	White Board +PPT	22.05.2024	23.05.2024
44	L 44	Credentialed approaches	Revision	22.05.2024	23.05.2024

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DEPARTMENT OF BTECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:DBMS	Subject code: PC-CS-CYS-206A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Data Models-, Network, Hierarchical and Relational Model	White Board,PPT	10.02.2024	12.02.2024
2	L2	Levels of abstraction. Administrator, Database Users,	Smart Board	12.02.2024	15.02.2024
3	L3	Three Schema architecture of DBMS, Application..	Smart Board	15.02.2024	16.02.2024
4	L4	Entity-Relationship Model: Entities, Attributes and Entity Sets	White Board,PPT	16.02.2024	19.02.2024
5	L5	Relation and Relationships sets, Mapping Constraints	Smart Board	19.02.2024	22.02.2024
6	L6	Keys, Entity-Relationship Diagram	White Board,PPT	19.02.2024	22.02.2024
7	L7	WeakEntity Sets, Extended E-R features.	White Board,PPT	22.02.2024	26.02.2024
8	L8	Relational Model: Structure of relational Databases	White Board,PPT	26.02.2024	28.02.2024
9	L9	Relational Algebra and Relational Calculus, Operations on Relational Algebra,	White Board,PPT	28.02.2024	29.02.2024

10	L10	Operations on Relational Calculus, Tuple Relational Calculus	Smart Board	29.02.2024	12.03.2024
11	L11	Tuple Relational Calculus, Domain Relational Calculus	Smart Board	29.02.2024	12.03.2024
12	L12	SQL and Integrity Constraints: Concept of DDL	Smart Board	12.03.2024	13.03.2024
13	L13	DML, DCL	White Board,PPT	13.03.2024	14.03.2024
14	L14	Aggregate Functions, Null Values.	Smart Board	14.03.2024	18.03.2024
15	L15	Domain Constraints, Referential Integrity Constraints assertions, Introduction to views,	White Board,PPT	18.03.2024	20.03.2024
16	L16	Querying, Nested Sub queries	White Board,PPT	18.03.2024	20.03.2024
17	L17	Surprise Test		20.03.2024	21.03.2024
18	L18	Database security application development using SQL, Stored procedures and triggers.	Smart Board	21.03.2024	26.03.2024
19	L19	Relational Database Design: Functional Dependency, Different anomalies in designing a Database	Smart Board	26.03.2024	27.03.2024
20	L20	Decomposition , Boyce-Codd Normal Form, 3NF	Smart Board	27.03.2024	03.04.2024

21	L21	Normalization using multi-valued dependencies, 4NF, 5NF	White Board,PPT	03.04.2024	04.04.2024
22	L22	Internals of RDBMS: Physical data structures	White Board,PPT	04.04.2024	09.04.2024
23	L23	Internals of RDBMS: Physical data structures	Smart Board	09.04.2024	10.04.2024
24	L24	Query optimization: join algorithm, statistics	Smart Board	10.04.2024	11.04.2024
25	L25	cost base optimization. Transaction processing	White Board,PPT	11.04.2024	15.04.2024
26	L26	Concurrency control and Recovery Management.	White Board,PPT	15.04.2024	16.04.2024
27	L27	Transaction model properties, state serializability	Smart Board	16.04.2024	18.04.2024
28	L28	Lock base protocols, two phase locking	Smart Board	18.04.2024	21.04.2024
29	L29	Recovery System: Types of Failures, Recovery Techniques, ARIES.	White Board,PPT	21.04.2024	24.04.2024
30	L30	Recovery System: Types of Failures, Recovery Techniques, ARIES.	White Board,PPT	24.04.2024	25.04.2024

31	L31	Concurrency Control: Serial and Serializable Schedules- Conflict Serializability –Enforcing	White Board,PPT	25.04.2024	26.04.2024
32	L32	Serializability by Locks- Locking Systems with Several Lock Modes	White Board,PPT	26.04.2024	29.04.2024
33	L33	Concurrency Control by Timestamps, validation.	White Board,PPT	29.04.2024	02.05.2024
34	L34	Concurrency Control by Timestamps, validation.	Smart Board	02.05.2024	03.05.2024
35	L35	Transaction Management: ACID Properties	Smart Board	03.05.2024	15.05.2024
36	L36	Transaction states, Serializability and Recoverability- View Serializability	Power Point	15.05.2024	16.05.2024
37	L37	Resolving Deadlocks- Distributed Databases: Commit and Lock	Power Point	16.05.2024	17.05.2024
38	L38	Resolving Deadlocks- Distributed Databases: Commit and Lock	Revision	17.05.2024	20.05.2024
39	L39	Resolving Deadlocks- Distributed Databases: Commit and Lock	Revision	20.05.2024	21.05.2024

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DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:IWT	Subject code: ES-CS-CYS-208A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Introduction to basics of IWT	White Board,PPT	13.02.2024	13.02.2024
2	L2	The role of Information Architect, Collaboration and Communication	White Board,PPT	13.02.2024	14.02.2024
3	L3	Organizing information, organizational challenges, Organizing web sites and Intranets	White Board,PPT	14.02.2024	15.02.2024
4	L4	Creating Cohesive Organization System,designing Navigation System	Smart Board	15.02.2024	16.02.2024
5	L5	Types of Navigation systems,Integrated Navigation elements	Smart Board	16.02.2024	20.02.2024
6	L6	Designing elegant navigation system,searching systems	White Board,PPT	20.02.2024	22.02.2024
7	L7	Searching your websites,designing the search interface	White Board,PPT	22.02.2024	23.02.2024

8	L8	Indexing the right stuff, to search or not to search grouping content	White Board, PPT	22.02.2024	23.02.2024
9	L9	Conceptual design, High level architecture blueprint	White Board, PPT	23.02.2024	27.02.2024
10	L10	Architectural page mockups, Design sketches	White Board, PPT	27.02.2024	28.02.2024
11	L11	Introduction to XHTML and HTML5	White Board, PPT	28.02.2024	29.02.2024
12	L12	Basic syntax, standard XHTML Document structure	Group Discussion	29.02.2024	01.03.2024
13	L13	Basic text Markup, Images, Hypertext Link	White Board, PPT	01.03.2024	12.03.2024
14	L14	List, tables, forms, HTML5	Video Lecture	12.03.2024	13.03.2024
15	L15	Searching your websites, designing the search interface	White Board, PPT	13.03.2024	15.03.2024
16	L16	Introduction to CSS, Levels of style sheets	White Board, PPT	15.03.2024	19.03.2024
17	L17	Style Specification formats, selector forms, property value forms, font properties	White Board, PPT	19.03.2024	20.03.2024
18	L18	List properties, color, box Model	White Board, PPT	20.03.2024	22.03.2024

19	L19	Alignment of text,background Images	White Board,PPT	22.03.2024	26.03.2024
20	L20	Conflict Resolution	White Board,PPT	26.03.2024	03.04.2024
21	L21	Overview of Javascript,Object orientation and Java script	Smart Board	03.04.2024	09.04.2024
22	L22	Overview of Javascript,Object orientation and Java script	Smart Board	09.04.2024	10.04.2024
23	L23	General Syntactic characteristics, Poimitives, Operation	White Board,PPT	10.04.2024	16.04.2024
24	L24	General Syntactic characteristics, Poimitives, Operation	White Board,PPT	16.04.2024	19.04.2024
25	L25	Expresion screen output and keyboard input	White Board,PPT	19.04.2024	23.04.2024
26	L26	Expresion screen output and keyboard input	White Board,PPT	23.04.2024	25.04.2024
27	L27	Control statements and object creation	White Board,PPT	25.04.2024	30.04.2024
28	L28	Modifications, arrays, functions	White Board,PPT	30.04.2024	02.05.2024
29	L29	Constructors, Pattern Matching	White Board,PPT	02.05.2024	03.05.2024
30	L30	Using regular expressions, errors in scripts	White Board,PPT	03.05.2024	14.05.2024
31	L31	Introduction to Python, Data Types	White Board,PPT	03.05.2024	14.05.2024

32	L32	Expressions, Cd	White Board,PPT	14.05.2024	16.05.2024
33	L33	Strings and Text Files, Lists and Dictionaries	White Board,PPT	14.05.2024	16.05.2024
34	L34	Strings and Text Files, Lists and Dictionaries	White Board,PPT	16.05.2024	17.05.2024
35	L35	Design with Functions	White Board,PPT	17.05.2024	21.05.2024
36	L36	Design with Functions	Revision	21.05.2024	23.05.2024
37	L37	Expressions, Cd	Revision	21.05.2024	23.05.2024

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LESSON PLAN

Subject:MIS	Subject code: PC-CS-CYS-202A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Basics of Linear Algebra	WhiteBoard,P PT	12.02.2024	15.02.2024
2	L2	Linear Dependence and independence of vectors	WhiteBoard,P PT	15.02.2024	16.02.2024
3	L3	Gaussian Elimination	WhiteBoard,P PT	16.02.2024	19.02.2024
4	L4	Rank of set of vectors forming a matrix	WhiteBoard,P PT	19.02.2024	22.02.2024
5	L5	Vector space and Basis set for a Vector space	WhiteBoard,P PT	19.02.2024	22.02.2024
6	L6	Dot product and Orthogonality, Rotation matrices	Online video	22.02.2024	26.02.2024
7	L7	Eigenvalues and Eigenvectors and its interpretation -	WhiteBoard,P PT	26.02.2024	28.02.2024
8	L8	Projection matrix and Regression –	WhiteBoard,P PT	28.02.2024	29.02.2024
9	L9	Singular Value Decomposition .	WhiteBoard,P PT	29.02.2024	12.03.2024
10	L10	Unit-II: Convolution sum,	WhiteBoard,P PT	29.02.2024	12.03.2024
11	L11	Convolution Integral,	WhiteBoard,P PT	12.03.2024	13.03.2024
12	L12	Ordinary Linear differential equations,	Group Discussion	13.03.2024	14.03.2024

13	L13	formulation, analytical	Online video	14.03.2024	18.03.2024
14	L14	Numerical solutions,	WhiteBoard,P PT	18.03.2024	20.03.2024
15	L15	Impulse Response Computations	WhiteBoard,P PT	18.03.2024	20.03.2024
16	L16	Impulse Response Computations	WhiteBoard,P PT	20.03.2024	21.03.2024
17	L17	formulating state space models of Physical systems.	WhiteBoard,P PT	21.03.2024	26.03.2024
18	L18	formulating state space models of Physical systems.	WhiteBoard,P PT	26.03.2024	27.03.2024
19	L19	UNIT-III Examples of ODE modelling in falling objects,	WhiteBoard,P PT	27.03.2024	03.04.2024
20	L20	Examples of ODE modelling in falling objects,	WhiteBoard,P PT	03.04.2024	04.04.2024
21	L21	satellite Motion	WhiteBoard,P PT	04.04.2024	09.04.2024
22	L22	planetary motion,	WhiteBoard,P PT	09.04.2024	10.04.2024
23	L23	Multivariate calculus,	Group Discussion	10.04.2024	11.04.2024
24	L24	Multivariate calculus,	WhiteBoard,P PT	11.04.2024	15.04.2024
25	L25	Multivariate calculus,	WhiteBoard,P PT	15.04.2024	16.04.2024
26	L26	Taylor series,	WhiteBoard,P PT	16.04.2024	18.04.2024
27	L27	Taylor series,	Video lecture	18.04.2024	21.04.2024
28	L28	Introduction to Optimization.	WhiteBoard,P PT	21.04.2024	24.04.2024
29	L29	Introduction to	WhiteBoard,P PT	24.04.2024	25.04.2024
30	L30	Introduction to Probability Distributions	PPT	25.04.2024	26.04.2024
31	L31	Introduction to Probability Distributions	PPT	26.04.2024	29.04.2024

32	L32	Introduction to Probability Distributions	PPT	29.04.2024	02.05.2024
33	L33	Binomial distribution	WhiteBoard,P PT	02.05.2024	03.05.2024
34	L34	Binomial distribution	WhiteBoard,P PT	03.05.2024	15.05.2024
35	L35	Poisson distribution	WhiteBoard,P PT	15.05.2024	16.05.2024
36	L36			16.05.2024	17.05.2024
37	L37	Normal distribution	WhiteBoard,P PT	17.05.2024	20.05.2024
38	L38	Normal distribution	WhiteBoard,P PT	20.05.2024	21.05.2024

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DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:OOPS	Subject code: ES-CS-CYS-204A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Introduction to C++, C++	WhiteBoard,PP	5.02.2024	12.02.2024
2	L 2	C++ Standard Library, Illustrative Simple C++ Programs	WhiteBoard,PP	12.02.2024	13.02.2024
3	L 3	Header Files, Namespaces	WhiteBoard,PP	13.02.2024	16.02.2024
4	L 4	Application of object oriented programming	WhiteBoard,PP	16.02.2024	19.02.2024
5	L 5	Object Oriented Concepts, Introduction to Objects and Object Oriented Programming,	WhiteBoard,PP	19.02.2024	20.02.2024
6	L 6	Encapsulation, Polymorphism,	Online video	20.02.2024	23.02.2024
7	L 7	Overloading, Inheritance, Abstract Classes, Accessifier (public/ protected/ private),	PPT	23.02.2024	26.02.2024
8	L 8	Class Scope and Accessing Class Members, Controlling Access Function	PPT	26.02.2024	27.02.2024

9	L 9	Constant, Class Member, Structure and Class	WhiteBoard,PP	27.02.2024	28.02.2024
10	L 10	Friend Function and Friend Classes	PPT	28.02.2024	04.03.2024
11	L 11	This Pointer, Dynamic Memory Allocation and Deallocation	PPT	04.03.2024	12.03.2024
12	L 12	(New and Delete),Static Class Members, Constructors, parameter	Group Discussion	12.03.2024	15.03.2024
13	L 13	Constructors and Copy Constructors, Deconstructors	PPT	15.03.2024	18.03.2024
14	L 14	Introduction of inheritance, Types of Inheritance,	Group Discussion	18.03.2024	19.03.2024
15	L 15	- Overriding Base Class Members in a Derived Class,	PPT	19.03.2024	20.03.2024
16	L 16	Public,Protected and Private Inheritance	WhiteBoard,PP	20.03.2024	22.03.2024
17	L 17	Public,Protected and Private Inheritance	Group Discussion	22.03.2024	26.03.2024
18	L 18	Deconstructors of Base Class in Derived Classes.	WhiteBoard,PP	26.03.2024	08.04.2024
19	L 19	Effect of Constructors and	WhiteBoard,PP	08.04.2024	09.04.2024
20	L 20	Polymorphism, Pointer to Derived class,	WhiteBoard,PP	08.04.2024	09.04.2024

21	L 21	Virtual Functions, Pure Virtual Function, Abstract Base Classes,	WhiteBoard,PP	09.04.2024	15.04.2024
22	L 22	Fundamentals of Operator Overloading,	WhiteBoard,PP	15.04.2024	16.04.2024
23	L 23	Rules for Operators Overloading	WhiteBoard,PP	16.04.2024	23.04.2024
24	L 24	Implementation of Operator Overloading	WhiteBoard,PP	23.04.2024	24.04.2024
25	L 25	Binary Operators.	Group Discussion	24.04.2024	26.04.2024
26	L 26	Like <>	Group Discussion	26.04.2024	29.04.2024
27	L 27	Unary Operators	WhiteBoard,PP	29.04.2024	02.05.2024
28	L 28	Text Streams and binary stream	WhiteBoard,PP	02.05.2024	14.05.2024
29	L 29	Text Streams and binary stream	PPT	02.05.2024	02.05.2024
30	L 30	Stream Manipulators	PPT	02.05.2024	21.05.2024
31	L31	Sequential and Random Access	PPT	02.05.2024	21.05.2024
32	L 32	File, Stream Input/ Output Classes,	PPT	21.05.2024	22.05.2024
33	L 33	Try, Throw, Catch, multiple catch,	WhiteBoard,PP	22.05.2024	24.05.2024
34	L 34	Try, Throw, Catch, multiple catch,	PPT	24.05.2024	28.05.2024
35	L 35	Basics of C++ Exception Handling,	PPT	28.05.2024	29.05.2024

36	L 36	Re-throwing an Exception, Exceptionspecifications.	WhiteBoard,PP	29.05.2024	30.05.2024
37	L 37	Templates: Function Templates, ,	WhiteBoard,PP	30.05.2024	31.05.2024

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LESSON PLAN

Subject:OS	Subject code: PC-CS-CYS-210A				
Semester: 4th					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L1	Introduction to OS. Operating system functions	White Board +PPT	16.02.2024	19.02.2024
2	L2	Different types of O.S	White Board +PPT	16.02.2024	19.02.2024
3	L3	batch process, multi-programmed, time-sharing	Group Discussion	19.02.2024	22.02.2024
4	L4	real-time, distributed,	White Board +PPT	19.02.2024	22.02.2024
5	L5	Parallel OS	Group Discussion	22.02.2024	23.02.2024
6	L6	Computer system operation	White Board +PPT	22.02.2024	23.02.2024
7	L7	I/O structure, storage structure	Smart Board	23.02.2024	26.02.2024
8	L8	storage hierarchy, different types of protections,	White Board +PPT	26.02.2024	29.02.2024
9	L9	operating system structure (simple, layered, virtual machine)	White Board +PPT	29.02.2024	01.03.2024
10	L10	O/S services, system calls.	White Board +PPT	01.03.2024	13.03.2024
11	L11	scheduling criteria	White Board +PPT	01.03.2024	13.03.2024

12	L12	preemptive and non-preemptive scheduling, scheduling algorithms, algorithm evaluation	White Board +PPT	13.03.2024	15.03.2024
13	L13	multi-processor scheduling	Smart Board	15.03.2024	18.03.2024
14	L14	Threads: overview, benefits of threads, user and kernel threads.	Smart Board	15.03.2024	18.03.2024
15	L15	Process Management: Concept of processes, process states, process control	White Board +PPT	18.03.2024	03.04.2024
16	L16	co-operating processes, inter-process communication	Group Discussion	03.04.2024	10.04.2024
17	L17	Process Synchronization: background, critical section problem,	White Board +PPT	10.04.2024	11.04.2024
18	L18	critical region, synchronization hardware,	White Board +PPT	11.04.2024	16.04.2024
19	L19	Classical problems of synchronization	White Board +PPT	11.04.2024	16.04.2024
20	L20	semaphores	Group Discussion	16.04.2024	18.04.2024
21	L21	Deadlocks: Concept of deadlock	White Board +PPT	18.04.2024	19.04.2024
22	L22	deadlock characterization	Group Discussion	19.04.2024	20.04.2024

23	L23	deadlock prevention, deadlock avoidance	White Board +PPT	19.04.2024	20.04.2024
24	L24	deadlock detection, recovery from deadlock	Smart Board	20.04.2024	21.04.2024
25	L25	contiguous memory allocation, paging, segmentation,	White Board +PPT	20.04.2024	21.04.2024
26	L26	Segmentation with paging.	White Board +PPT	21.04.2024	22.04.2024
27	L27	Concept of fragmentation	White Board +PPT	21.04.2024	22.04.2024
28	L28	Virtual Memory: background, demand paging,	White Board +PPT	22.04.2024	23.04.2024
29	L29	concept of page replacement, page replacement algorithms	White Board +PPT	23.04.2024	24.04.2024
30	L30	allocation of frames, thrashing	Smart Board	23.04.2024	24.04.2024
31	L31	I/O Management: I/O hardware, polling, interrupts, DMA, kernel I/O subsystem	Smart Board	24.04.2024	02.05.2024
32	L32	scheduling, buffering, caching, spooling and device reservation)	White Board +PPT	24.04.2024	02.05.2024
33	L33	Disk Management: disk structure, disk scheduling (FCFS, SSTF, SCAN,C-SCAN) , disk reliability	White Board +PPT	02.05.2024	03.05.2024

34	L34	disk Performance parameters Protection and Security	Smart Board	03.05.2024	15.05.2024
35	L35	Goals of protection and security, security attacks, authentication,	White Board +PPT	03.05.2024	15.05.2024
36	L36	Program threats, system threats, threat monitoring	White Board +PPT	15.05.2024	20.05.2024
37	L37	Case studies: UNIX file system, Windows file system	White Board +PPT	15.05.2024	21.05.2024