

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

PANIPAT

DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:COA	Subject Code:ES-CS-CYS-211A				
Semester:3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Introduction to computer organization and Architecture	white board , ppt	21.08.2023	29.08.2023
2	L 2	Introduction to computer organization and Architecture	white board , ppt	21.08.2023	29.08.2023
3	L 3	Generation of computer	white board , ppt	29.08.2023	05.09.2023
4	L 4	Booth multiplication algorithm	white board , ppt	05.09.2023	06.09.2023
5	L 5	Floating point representation	white board , ppt	06.09.2023	12.09.2023
6	L 6	Flynn classification	Online video	12.09.2023	13.09.2023
7	L 7	Restoring division algorithm	white board , ppt	13.09.2023	14.09.2023
8	L 8	Non-Restoring division algorithm	white board , ppt	14.09.2023	19.09.2023
9	L 9	Binary Addition and subtraction	white board , ppt	19.09.2023	20.09.2023
10	L 10	Introduction to instruction	white board , ppt	20.09.2023	21.09.2023
11	L 11	Instruction code	white board , ppt	21.09.2023	26.09.2023
12	L 12	Instruction format and instruction type	Group Discussion	26.09.2023	27.09.2023
13	L 13	Instruction cycle	white board , ppt	27.09.2023	28.09.2023

14	L 14	Interrupts and its types	white board , ppt	28.09.2023	03.10.2023
15	L 15	Interrupt cycle	white board , ppt	03.10.2023	10.10.2023
16	L 16	Microprogramed control organization	white board , ppt	10.10.2023	11.10.2023
17	L 17	Rev: Booth algorithms and division algorithm	white board , ppt	11.10.2023	12.10.2023
18	L 18	Address sequencing	white board , ppt	12.10.2023	12.10.2023
19	L 19	Microinstruction format	white board , ppt	12.10.2023	17.10.2023
20	L 20	Microprogram sequencer	white board , ppt	17.10.2023	17.10.2023
21	L 21	Stack organization	white board , ppt	17.10.2023	18.10.2023
22	L 22	Address sequencing	white board , ppt	18.10.2023	19.10.2023
23	L 23	Data transfer &	white board , ppt	19.10.2023	25.10.2023
24	L 24	RICE & CICS P	white board , ppt	25.10.2023	26.10.2023
25	L 25	Array and vector	white board , ppt	26.10.2023	27.10.2023
26	L 26	Introduction to	white board , ppt	26.10.2023	27.10.2023
27	L 27	Surprise Test of	white board , ppt	27.10.2023	29.10.2023
28	L 28	Asynchronous I	white board , ppt	29.10.2023	31.10.2023
29	L 29	Mode of Data t	white board , ppt	31.10.2023	16.11.2023
30	L 30	Priority interrupt	white board , ppt	16.11.2023	17.11.2023
31	L 31	Daisy chain priority interrupt	white board , ppt	17.11.2023	23.11.2023
32	L 32	Parallel priority interrupt	white board , ppt	29.11.2023	29.11.2023
33	L 33	DMA controller and transfer	white board , ppt	30.11.2023	30.11.2023
34	L 34	CPU -IOP communication	white board , ppt	30.11.2023	06.12.2023
35	L 35	Doubt class	white board , ppt	06.12.2023	07.12.2023

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LESSON PLAN

Subject:CTP	Subject Code:PC-CS-CYS-205A				
Semester:3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Introduction to	White Board,PPT	25.08.2023	28.08.2023
2	L 2	Python Variabl	Smart Board	28.08.2023	01.09.2023
3	L 3	Numbers in Pyt	Smart Board	01.09.2023	04.09.2023
4	L 4	Arithmetic Ope	White Board,PPT	04.09.2023	05.09.2023
5	L 5	Lists in Python,	Smart Board	05.09.2023	06.09.2023
6	L 6	Add, Remove, I	White Board,PPT	06.09.2023	11.09.2023
7	L 7	Add, Remove, I	White Board,PPT	11.09.2023	12.09.2023
8	L 8	Tuples in Pythc	White Board,PPT	12.09.2023	13.09.2023
9	L 9	Sets in Python,	White Board,PPT	13.09.2023	18.09.2023
10	L 10	Dictionaries in	Smart Board	18.09.2023	19.09.2023
11	L 11	Flow Control S	Smart Board	19.09.2023	20.09.2023
12	L 12	Iterative Contro	Smart Board	20.09.2023	25.09.2023
13	L 13	Function Decla	White Board,PPT	25.09.2023	26.09.2023
14	L 14	Programs to im	Smart Board	26.09.2023	27.09.2023
15	L 15	Keyword and A	White Board,PPT	27.09.2023	09.10.2023
16	L 16	Recursion Cond	White Board,PPT	09.10.2023	10.10.2023
17	L 17	Anonymous Fu	White Board,PPT	10.10.2023	16.10.2023
18	L 18	Exception Hand	Smart Board	16.10.2023	17.10.2023
19	L 19	Classes & Arra	Smart Board	17.10.2023	18.10.2023
20	L 20	Modules, Packa	Smart Board	15.10.2023	15.10.2023
21	L 21	F Strings in Pyt	White Board,PPT	15.10.2023	27.10.23
22	L 22	F Strings in Pyt	White Board,PPT	27.10.23	30.10.2023
23	L 23	Decorators & C	Smart Board	30.10.2023	31.10.2023
24	L 24	User Input & F	Smart Board	31.10.2023	03.11.2023
25	L 25	Calendars in Py	White Board,PPT	03.11.2023	20.11.2023
26	L 26	Dictionary Ope	White Board	20.11.2023	21.11.2023
27	L 27	Reading and W	Smart Board	21.11.2023	25.11.2023
28	L 28	CSV and JSON	Smart Board	25.11.2023	27.11.2023
29	L 29	Surprise Test of Unit -4		27.11.2023	28.11.2023
30	L 30	CSV and JSON	White Board,PPT	28.11.2023	29.11.2023
31	L 31	Clock Files in F	White Board,PPT	29.11.2023	06.12.2023

32	L 32	Classes in Pyth	White Board,PPT	06.12.2023	06.12.2023
33	L 33	Classes in Pyth	White Board,PPT	06.12.2023	08.12.2023
34	L 34	Use of __inti_&	Smart Board	06.12.2023	08.12.2023
35	L 35	Constructors in	Smart Board	08.12.2023	15.12.2023

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LESSON PLAN

Subject: DS	Subject code: PC-CS-CYS-203A				
Semester: 3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Introduction to data structure, Data type, built in and user defined data type,	Powerpoint, White Borad	21.08.2023	25.08.2023
2	L 2	Algorithm Analysis, Application of data structure	Powerpoint, White Borad	25.08.2023	28.08.2023
3	L 3	Worst case analysis, Best and average case analysis	Powerpoint, White Borad	28.08.2023	31.08.2023
4	L 4	Basic of recursion	Powerpoint, White Borad	31.08.2023	04.09.2023
5	L 5	Array (one-Dimensional)	Powerpoint, White Borad	04.09.2023	09.09.2023
6	L 6	2D and Multidimensional array	Powerpoint, White Borad	09.09.2023	11.09.2023
7	L 7	Sparse Matrix, Linear Search	Powerpoint, White Borad	11.09.2023	13.09.2023
8	L 8	Binary Search algorithm	Powerpoint, White Borad	13.09.2023	14.09.2023
9	L 9	Sorting using insertion sort	Powerpoint, White Borad	14.09.2023	18.09.2023
10	L 10	Sorting using bubble sort, radix sort	Powerpoint, White Borad	18.09.2023	20.09.2023
11	L 11	Stacks Introduction, Implementation of stacks and operations	Powerpoint, White Borad	20.09.2023	21.09.2023

12	L 12	Evaluation of postfix and prefix notation	Powerpoint, White Borad	21.09.2023	25.09.2023
13	L 13	Interconversion of prefix to infix and postfix	Powerpoint, White Borad	25.09.2023	27.09.2023
14	L 14	Quicksort Algorithm	Powerpoint, White Borad	27.09.2023	28.09.2023
15	L 15	Queues introduction, Sequential Implementation of Linear Queues	Group Discussion	28.09.2023	09.10.2023
16	L 16	operation of queues	Powerpoint, White Borad	09.10.2023	11.10.2023
17	L 17	Circular Queue and Its Implementation	Powerpoint, White Borad	11.10.2023	12.10.2023
18	L 18	Priority Queues and Its Implementation	Powerpoint, White Borad	12.10.2023	16.10.2023
19	L 19	Applications of queues	Powerpoint, White Borad	16.10.2023	18.10.2023
20	L 20	Introduction Linked List, Need of Dynamic Data Structures, Single Link List	Powerpoint, White Borad	18.10.2023	19.10.2023
21	L 21	Traversing, Insertion, Deletion Operations on Single Link Lists.	Video lecture	19.10.2023	23.10.2023
22	L 22	Comparison between Static and Dynamic, Implementation of Linked List	Powerpoint, White Borad	23.10.2023	25.10.2023
23	L 23	Doubly Link List and its Dynamic Implementations	Powerpoint, White Borad	25.10.2023	26.10.2023

24	L 24	Circular Link List and its Dynamic Implementations	Powerpoint, White Borad	26.10.2023	30.10.2023
25	L 25	Dynamic Implementation of Stacks and Queues	Powerpoint, White Borad	30.10.2023	02.11.2023
26	L 26	Trees: Definition, Basic Terminology, Binary tree	Powerpoint, White Borad	02.11.2023	16.11.2023
27	L 27	External and Internal Nodes, Static and Dynamic Implementation of a Binary Tree	Powerpoint, White Borad	16.11.2023	20.11.2023
28	L 28	Primitive operations on binary tree	Powerpoint, White Borad	20.11.2023	23.11.2023
29	L 29	Binary Tree traversals: Preorder, Inorder and Postorder, Representation of Infix-	Powerpoint, White Borad	23.11.2023	27.11.2023
30	L 30	Introduction to BST: B+ Trees,	Powerpoint, White Borad	27.11.2023	29.11.2023
31	L 31	AVL Trees	Powerpoint, White Borad	29.11.2023	30.11.2023
32	L 32	Threaded Binary Tree, Balanced m-way Tree	Powerpoint, White Borad	30.11.2023	06.12.2023
33	L 33	Heap sort	Powerpoint, White Borad	06.12.2023	07.12.2023

34	L 34	Graphs: Basic Terminology, Definition of Undirected and directed graph,	Powerpoint, White Borad	07.12.2023	11.12.2023
35	L 35	Memory representation of graphs	Powerpoint, White Borad	11.12.2023	13.12.2023
36	L 36	MST, Warshall's Algorithm	Powerpoint, White Borad	13.12.2023	14.12.2023
37	L 37	Graph Traversal Algorithms: BFS and dFS	Powerpoint, White Borad	14.12.2023	18.12.2023

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LESSON PLAN

Subject: ICS		Subject code: PC-CS-CYS-201A			
Semester: 3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Introduction an	White Board +PPT	22.08.2023	23.08.2023
2	L2	Types of Cyber	Smart Board	23.08.2023	24.08.2023
3	L3	Crime against p	White Board +PPT	24.08.2023	25.08.2023
4	L4	Drug trafficking	White Board +PPT	25.08.2023	01.09.2023
5	L5	Need for Inform	Smart Board	01.09.2023	04.09.2023
6	L6	Threats to Infor	Smart Board	04.09.2023	11.09.2023
7	L7	Information As	Smart Board	11.09.2023	12.09.2023
8	L8	Cyber Security,	White Board +PPT	12.09.2023	14.09.2023
9	L9	Unauthorized A	White Board +PPT	14.09.2023	19.09.2023
10	L10	Viruses and Ma	White Board +PPT	19.09.2023	21.09.2023
11	L11	Internet Hackin	Smart Board	21.09.2023	25.09.2023
12	L12	Software Piracy	White Board +PPT	25.09.2023	26.09.2023
13	L13	Intellectual Pro	White Board +PPT	26.09.2023	28.09.2023
14	L14	Mail Bombs, E	Smart Board	28.09.2023	09.10.2023
15	L15	Stalking and O	Smart Board	09.10.2023	16.10.2023
16	L16	Password Crack	Smart Board	16.10.2023	17.10.2023
17	L17	Key loggers and	White Board +PPT	17.10.2023	19.10.2023
18	L18	phishing, DOS	Group Discussion	19.10.2023	23.10.2023
19	L19	SQL injection	White Board +PPT	23.10.2023	26.10.2023
20	L20	Buffer Overflow	Smart Board	26.10.2023	30.10.2023
21	L21	passive attacks,	White Board +PPT	30.10.2023	31.10.2023
22	L22	Application sec	Smart Board	20.11.2023	20.11.2023
23	L23	Data Security C	Group Discussion	20.11.2023	21.11.2023

24	L24	Archival Storage	White Board +PPT	21.11.2023	23.11.2023
25	L25	Security Techn	White Board +PPT	23.11.2023	27.11.2023
26	L26	Intrusion Detec	Smart Board	27.11.2023	29.11.2023
27	L27	Hardware prote	Smart Board	29.11.2023	30.11.2023
28	L28	Introduction to	White Board +PPT	30.11.2023	07.12.2023
29	L29	Forensic Softwa	Group Discussion	07.12.2023	11.12.2023
30	L30	special tools an	Smart Board	07.12.2023	11.12.2023
31	L31	challenges in di	White Board +PPT	11.12.2023	12.12.2023
32	L32	Introduction to	Smart Board	11.12.2023	12.12.2023
33	L33	Cybercrime and	White Board +PPT	12.12.2023	12.12.2023
34	L34	Why Do We Ne	Group Discussion	12.12.2023	14.12.2023
35	L35	The Indian IT A	White Board +PPT	14.12.2023	14.12.2023
36	L36	Cybercrime Sec	White Board +PPT	25.12.2023	25.12.2023
37	L37	Digital Signatu	White Board +PPT	25.12.2023	26.12.2023
38	L38	Cybercrime and	White Board +PPT	26.12.2023	27.12.2023

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LESSON PLAN

Subject:PPL		Subject code: PC-CS-CYS-209A			
Semester 3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Programming language translator's compiler and interpreters	white board , ppt	20.08.2023	23.08.2023
2	L 2	Programming language translator's compiler and interpreters	white board , ppt	20.08.2023	23.08.2023
3	L 3	Elementary data types – data objects, variable and constants	white board , ppt	23.08.2023	24.08.2023
4	L 4	data types. Specification and implementation of elementary data types, Declarations	white board , ppt	24.08.2023	29.08.2023
5	L 5	Assignment and initialization, Numeric data type enumerations Booleans and characters.	white board , ppt	29.08.2023	05.09.2023
6	L 6	Structured data objects and data types, specification and implementation	Online video	05.09.2023	06.09.2023

7	L 7	Declaration and type checking of data structure, vector and arrays	white board , ppt	06.09.2023	12.09.2023
8	L 8	records Character strings, variable size data structures, Union, pointer	white board , ppt	12.09.2023	13.09.2023
9	L 9	programmer defined data objects, sets, files.	white board , ppt	13.09.2023	14.09.2023
10	L 10	Evolution of data type concept abstraction, encapsulation and information hiding	white board , ppt	14.09.2023	19.09.2023
11	L 11	Subprograms, type definitions, abstract data types	white board , ppt	19.09.2023	20.09.2023
12	L 12	Over loaded subprograms, generic subprograms.	Group Discussion	20.09.2023	21.09.2023
13	L 13	Implicit and explicit sequence control,	white board , ppt	21.09.2024	26.09.2023
14	L 14	sequence control within expressions	white board , ppt	26.09.2023	27.09.2023
15	L 15	sequence control within statement,	white board , ppt	27.09.2023	28.09.2023
16	L 16	Subprogram sequence control: simple call return	white board , ppt	28.09.2023	03.10.2023
17	L 17	Recursive subprograms, Exception and exception hndlers	white board , ppt	03.10.2023	10.10.2023

18	L 18	Co-routines, sequence control	white board , ppt	10.10.2023	11.10.2023
19	L 19	Concurrency – subprogram level concurrency, synchroniz through semaphores,	white board , ppt	11.10.2023	12.10.2023
20	L 20	Monitors and message passing.	white board , ppt	11.10.2023	12.10.2023
21	L 21	Data Control: Names and referencing environment,	white board , ppt	12.10.2023	17.10.2023
22	L 22	static and dynamic scope	white board , ppt	12.10.2023	17.10.2023
23	L 23	block structure, Local data and local referencing environment	white board , ppt	17.10.2023	18.10.2023
24	L 24	Shared data: dynamic and static scope	white board , ppt	18.10.2023	19.10.2023
25	L 25	Parameter and parameter transmission schemes.	white board , ppt	19.10.2023	25.10.2023
26	L 26	Storage Management and Programming Languages:	white board , ppt	25.10.2023	26.10.2023
27	L 27	Major run time elements requiring storage	Online video	26.10.2023	27.10.2023
28	L 28	programmer and system-controlled storage management and phases	white board , ppt	26.10.2023	27.10.2023

29	L 29	Static storage management	white board , ppt	27.10.2023	29.10.2023
30	L 30	Stack based storage management	white board , ppt	29.10.2023	31.10.2023
31	L 31	Heap storage management, variable and fixed size elements	white board , ppt	31.10.2023	16.11.2023
32	L 32	Introduction to procedural, non-procedural	white board , ppt	16.11.2023	17.11.2023
33	L 33	structured, logical	white board , ppt	17.11.2023	23.11.2023
34	L 34	functional and object-oriented programming language	white board , ppt	23.11.2023	29.11.2023
35	L 35	Comparison of C and C++ programming languages	Revision	29.11.2023	30.11.2023
36	L 36	Comparison of C and C++ programming languages	Revision	30.11.2023	06.12.2023
37	L 37	Comparison of C and C++ programming languages	Revision	06.12.2023	07.12.2023

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DEPARTMENT OF B.TECH CSE(CYBER SECURITY)

LESSON PLAN

Subject:SE		Subject code: PC-CS-CYS-207A			
Semester:3rd					
S No.	Lecture No.	Topics To Be Covered	Mode of Teaching	Planned Date	Covered Date
1	L 1	Software & Software Engineering: Introduction & Characteristics	white board , ppt	20.08.2023	23.08.2023
2	L 2	Software crisis : Factors & Remedies	white board , ppt	23.08.2023	25.08.2023
3	L 3	Software engineering paradigms : Classical Waterfall Model	white board , ppt	25.08.2023	28.08.2023
4	L 4	Software engineering paradigms : Iterative Waterfall Model	white board , ppt	28.08.2023	29.08.2023
5	L 5	Software engineering paradigms : Prototyping & Evolutionary Model	white board , ppt	28.08.2023	29.08.2023
6	L 6	Software engineering paradigms : Spiral Model	Smart Board	29.08.2023	01.09.2023
7	L 7	Software engineering paradigms : Spiral Model	Smart Board	01.09.2023	03.09.2023
8	L 8	Planning a software project	white board , ppt	03.09.2023	06.09.2023
9	L 9	Software cost estimation	white board , ppt	06.09.2023	11.09.2023
10	L 10	Project scheduling	white board , ppt	06.09.2023	11.09.2023

11	L 11	Personal planning , Team structure	Smart Board	11.09.2023	13.09.2023
12	L 12	Software configuration management : Introduction	white board , ppt	13.09.2023	14.09.2023
13	L 13	Project Monitoring	white board , ppt	14.09.2023	18.09.2023
14	L 14	Risk Management	Smart Board	18.09.2023	20.09.2023
15	L 15	Software requirement analysis- Classification, Structure Analysis	Smart Board	20.09.2023	21.09.2023
16	L 16	Object Oriented Analysis , Data Modeling	Smart Board	21.09.2023	25.09.2023
17	L 17	Software requirement Specification &validation	white board , ppt	25.09.2023	09.10.2023
18	L 18	Design and implementation of software : Software design fundamentals	white board , ppt	25.09.2023	09.10.2023
19	L 19	Design methodology :Structured design	white board , ppt	09.10.2023	11.10.2023
20	L 20	Design methodology :Object Oriented design	Smart Board	11.10.2023	12.10.2023
21	L 21	Design Verification, Monitoring and Control coding	white board , ppt	12.10.2023	16.10.2023
22	L 22	Software Reliabilities: Metric and specification	Smart Board	16.10.2023	18.10.2023

23	L 23	Module Coupling and Cohesion	Smart Board	18.10.2023	19.10.2023
24	L 24	LOC ,Cyclomatic Complexity	Smart Board	19.10.2023	25.10.2023
25	L 25	LOC ,Cyclomatic Complexity	Smart Board	25.10.2023	26.10.2023
26	L 26	COCOMO Model	white board , ppt	25.10.2023	26.10.2023
27	L 27	COCOMO Model	white board , ppt	26.10.2023	30.10.2023
28	L 28	Software Quality Assurance	white board , ppt	30.10.2023	02.11.2023
29	L 29	Testing – Testing fundamentals, Test Cases	white board , ppt	02.11.2023	16.11.2023
30	L 30	White Box Testing Strategies	Smart Board	16.11.2023	20.11.2023
31	L31	White Box Testing Strategies	white board , ppt	16.11.2023	23.11.2023
32	L 32	Black Box Software Testing Strategies	white board , ppt	23.11.2023	27.11.2023
33	L 33	Black Box Software Testing Strategies	Smart Board	27.11.2023	30.11.2023
34	L 34	Maintenance: key Issues	Smart Board	30.11.2023	06.12.2023
35	L 35	Types Of Software maintenance	Smart Board	06.12.2023	07.12.2023
36	L 36	Cost Of Maintenance, Software Re-Engineering cycle	Smart Board	07.12.2023	11.12.2023