SATYUG DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY, FARIDABAD

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Lesson Plan / Teaching Plan / Lecture Plan with Progress : BCA DS Semester : 2nd Session: 2025-26

Course Name (Co Object Oriented Programming using Java(BCG-108-V1) Faculty : Ms. Sangeeta

Topics / lectures are arranged in sequence - same - as to be taught in the class. Maintain data related to "Date" in its hard copy.

Oriented Programming	Lecture No	Topic Description	Teaching Pedagogy	Reference Material
1	1	Introduction to Programming & OOP	White Board	E. Balagurusamy
2	2	History, Evolution & Features of Java	PPT	P. K. Sinha
3	3	Java Virtual Machine (JVM) Architecture	PPT	P. K. Sinha
4	4	JDK, JRE and Java Program Execution	White Board	E. Balagurusamy
5	5	Structure of Java Program & Naming	White Board	Reema Thareja – Programming in Java
6	6	Java Tokens, Keywords & Identifiers	PPT	E. Balagurusamy
7	7	Data Types and Type Conversion	PPT	Reema Thareja – Programming in Java
8	8	Variables, Scope & Lifetime	White Board	Reema Thareja – Programming in Java
9	9	Operators and Expressions	White Board	E. Balagurusamy
10	10	Decision Control Statements (if, if-else)	White Board	Reema Thareja – Programming in Java
11	11	Switch Statement & Nested Conditions	PPT	Reema Thareja – Programming in Java
12	12	Looping Statements (for, while)	White Board	E. Balagurusamy
13	13	do-while Loop & Jump Statements	PPT	Reema Thareja – Programming in Java
14	14	Revision	White Board	
15	15	Introduction to Arrays	PPT	Reema Thareja – Programming in Java
16	16	One-Dimensional Arrays	PPT	E. Balagurusamy
17	17	Two-Dimensional Arrays	PPT	Reema Thareja – Programming in Java
18	18	Introduction to Classes & Objects	PPT	E. Balagurusamy
19	19	Methods and Method Overloading	PPT	Reema Thareja – Programming in Java
20	20	Constructors and Types	White Board	Reema Thareja – Programming in Java
21	21	this Keyword & Static Members	PPT	Reema Thareja – Programming in Java
22	22	Inheritance Concept	PPT	E. Balagurusamy
23	23	Types of Inheritance in Java	PPT	Reema Thareja – Programming in Java
24	24	Method Overriding	PPT	Reema Thareja – Programming in Java
25	25	Polymorphism (Compile & Runtime)	PPT	E. Balagurusamy
26	26	Encapsulation	PPT	Reema Thareja – Programming in Java
27	27	Abstraction & Abstract Classes	PPT	Reema Thareja – Programming in Java
28	28	Packages & Package Creation	White Board	E. Balagurusamy
29	29	Access Specifiers	White Board	Reema Thareja – Programming in Java
30	30	Interfaces & Multiple Inheritance	PPT	Reema Thareja – Programming in Java
31	31	Exception Handling – Overview	PPT	Reema Thareja – Programming in Java
32	32	try, catch, finally Blocks	PPT	E. Balagurusamy
33	33	Built-in Exceptions	PPT	Reema Thareja – Programming in Java
34	34	User-Defined Exceptions	PPT	Reema Thareja – Programming in Java
35	35	Multithreading Concepts	PPT	E. Balagurusamy
36	36	Thread Life Cycle	PPT	Reema Thareja – Programming in Java
37	37	Thread Class & Runnable Interface	PPT	Reema Thareja – Programming in Java
38	38	Synchronization Concept	PPT	Reema Thareja – Programming in Java
39	39	File Handling – Introduction	White Board	E. Balagurusamy
40	40	Byte Stream Classes	PPT	Reema Thareja – Programming in Java
41	41	Character Stream Classes	PPT	Reema Thareja – Programming in Java
42	42	Revision	White Board	
43	43	Serialization Concept	PPT	Reema Thareja – Programming in Java
44	44	Collection Framework Overview	PPT	E. Balagurusamy
45	45	List Interface (ArrayList, LinkedList)	PPT	Reema Thareja – Programming in Java
46	46	Set Interface (HashSet, TreeSet)	PPT	Reema Thareja – Programming in Java
47	47	Map Interface (HashMap, TreeMap)	PPT	E. Balagurusamy
48	48	Introduction to AWT & Swing	PPT	Reema Thareja – Programming in Java
49	49	Event Handling	PPT	All References
50	50	Revision	White Board	

Study Material / Books / Web-resources / Online Courses Link

S. No	
1	E. Balagurusamy – Programming with Java
2	P. K. Sinha – Java Programming
3	Reema Thareja – Programming in Java