

MCA I Year II Semester Subject Code: 24MCA2003 Object Oriented Programming using JAVA

Contact Hour	Unit No.	Topic Name	Teaching Methodology	Remarks
1-2	1	Evolution of Java, Java Buzzwords	Blackboard	
3	1	Java Virtual Machine	Blackboard	
4	1	Overview of Java, Simple Java Program	Blackboard	
5	1	Naming Conventions in Java	Blackboard	
6	1	Data Types, Variables, Expressions	Blackboard	
7	1	Automatic Type Conversion, Operators	Blackboard	
8-9	1	Control Statements	Blackboard	
10	1	Arrays	Blackboard	
11	1	Strings	Blackboard	
12	2	Class Fundamentals, Declaring Objects	Blackboard	
13	2	Initializing Instance Variables, Access Control	Blackboard	
14	2	Constructors	Blackboard	
15	2	Overloading Methods and Constructors	Blackboard	
16	2	Methods in Java, Static Methods	Blackboard	
17	2	Recursion	Blackboard	
18	2	final Keyword, this Keyword	Blackboard	
19	2	Garbage Collection, finalize() Method	Blackboard	
20-21	3	Inheritance Basics, Types of Inheritance	Blackboard	
22	3	The Keyword 'super', final with Inheritance	Blackboard	
23	3	Method Overriding	Blackboard	
24	3	Dynamic Method Dispatch	Blackboard	
25-26	3	Abstract Classes	Blackboard	
27	4	Interface	Blackboard	
28	4	Multiple Inheritance using Interface	Blackboard	
29	4	Abstract Classes vs Interfaces	Blackboard	
30	4	Packages	Blackboard	
31	4	Different Types of Packages	Blackboard	
32	4	Access Protection, Importing Packages	Blackboard	
33-34	5	Exception Handling Fundamentals	Blackboard	
35	5	throw Clause	Blackboard	
36	5	throws Clause	Blackboard	
37-38	5	Built-in Exception	Blackboard	

39-40	5	User Defined Exception	Blackboard	
41	5	Java Thread Model	Blackboard	
42	5	Main Thread	Blackboard	
43	5	Creating a Thread and Running it	Blackboard	
44	5	Terminating the Thread	Blackboard	
45	5	Creating Multiple Threads	Blackboard	
46-47	5	Thread Synchronization	Blackboard	
48	5	Thread Priorities	Blackboard	