

LESSON PLAN

Subject: Programming in JAVA

Subject code: MCA-20-11

Semester: I

SNo	Topic	No. of Lectures	CO Covered	Teaching Methodology
1	Java History: Java features, How Java differs from C++, Java Program Structure	1	CO1	Board
2	Java Tokens, , Java virtual machine, Constants, variables and data types, operators & expressions	1		PPT
3	arrays, class & object, garbage collection, finalize() method	1		Board
4	Inheritance, method overriding, Abstract class	1		Video
5	Interfaces, extending Interfaces, Accessing Interface variables.	1		PPT
6	Packages, Exception Handling & Multithreading: API Packages, Creating packages	1		Video
7	Accessing a package, Adding a class to a package, use of super and final keywords, Wrapper classes	2		Video
8	Exception types, uncaught exceptions, multiple catch clauses	2		Board
9	nested try statements, built-in exceptions, creating your own exceptions	1	CO2	PPT
10	Multithreading; Java thread model, thread priorities	1		Board
11	Threads synchronization, thread suspending, resuming and stopping threads.	1		Video
12	I/O Streams & Applet: Console I/O – reading console input	1		Video
13	writing console output, Files I/O-Byte Streams	1		PPT
14	Character Streams, Collection of inbuilt Interfaces & Classes	1		Flip Learning
15	Applet programming	1		Board
16	Applet life Cycle, creating executable Applet, Applet Tag	1		Board

17	Running an applet, passing parameters to applet	1		Video
18	Graphics programming, GUI Concepts in Java	2		PPT
19	Managing Input/Output in Applet	1		Board
20	Event Handling: AWT Classes.	2		PPT
21	AWT Label, AWT TextField	1	CO3	PPT
22	AWT TextArea, AWT Checkbox	1		PPT
23	Event Listeners	1		PPT
24	Java ActionListener, Java MouseListener	1		PPT
25	Adapter Classes as Helper Classes in Event Handling. (PART-I)	1		Board
26	Adapter Classes as Helper Classes in Event Handling. (PART-II)	1		Board
27	Layout managers	1		PPT
28	Grid Layout, Flow Layout	2		
29	Card Layout, Border Layout, Menus	1		PPT and Video
30	Card Layout, Border Layout, Menus	2		Video
31	Card Layout, Border Layout, Menus	3		PPT

