



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
(AUTONOMOUS)



DEPARTMENT OF INFORMATION TECHNOLOGY

Course Code / Name: U15IT510 / JAVA PROGRAMMING

Class (Year / Program / Department): II / B.TECH / IT

LESSON PLAN

UNIT I – Java OOPS Basics				
Session No	Topic	Duration In Minutes	Teaching Aid	Book Referred
1	The Genesis of Java and Overview of Java	45	BB	R1
2	Data Types and Variables	45	BB	R1
3	Arrays	45	BB	R1
4	Operators	45	BB	R1
5	Control Statements	45	BB	R1
6	Methods and Classes	45	BB	R1
7	Inheritance	45	BB	R1
8	Using Super	45	BB	R1
9	Creating a Multilevel Hierarchy	45	BB	R1
10	Method overriding and Using Abstract Classes	45	BB	R1
UNIT II – Errors and Exception Handling				
1	Packages and Access Protection	45	BB	R1,R2
2	Importing Packages	45	BB	R1,R2
3	Interfaces Definitions and Implementations	45	BB	R1,R2
4	Compile time errors	45	BB	R1,R2
5	Run time errors	45	BB	R1,R2
6	Exception Handling and its Types	45	BB	R1,R2
7	Try and Catch	45	BB	R1,R2
8	Throw	45	BB	R1,R2
9	Finally	45	BB	R1,R2
10	User defined exceptions	45	BB	R1,R2
UNIT III – Streams and Threads				
1	File	45	BB	R1,R2
2	The Byte Streams	45	BB	R1,R2
3	The Character Streams	45	BB	R1,R2
4	Using Stream I/ O and Serialization.	45	BB	R1,R2
5	Java threads and its Priorities	45	BB	R1,R2
6	Synchronization	45	BB	R1,R2
7	Thread class and Run able interfaces	45	BB	R1,R2
8	Creating threads and Multiple threads	45	BB	R1,R2
9	Inter thread communication	45	BB	R1,R2

UNIT IV – String Handling				
1	Special String operations and Methods	45	BB	R1,R2
2	String Buffer	45	BB	R1,R2
3	Exploring java. lang Simple type Wrappers	45	BB	R1,R2
4	System and Math	45	BB	R1,R2
5	Collections Framework:	45	BB	R1,R2
6	Collections Interfaces and Classes	45	BB	R1,R2
7	Utility Classes	45	BB	R1,R2
8	String Tokenizer	45	BB	R1,R2
9	Date and Time	45	BB	R1,R2
UNIT V – Applets, Event Handling and AWT				
1	Applet Basics	45	BB & PPT	R1,R2
2	Applet Architecture	45	BB & PPT	R1,R2
3	Applet Display Methods	45	BB & NPTEL	R1,R2
4	Parameter Passing	45	BB & NPTEL	R1,R2
5	Event Handling Mechanisms	45	BB & NPTEL	R1,R2
6	Event Classes and Listener	45	BB & PPT	R1,R2
7	Graphics , Colors and Fonts	45	BB & PPT	R1,R2
8	AWT Controls	45	BB & PPT	R1,R2
9	Layout Managers and Menus	45	BB & PPT	R1,R2
10	JDBC Concepts and Java security	45	BB & PPT	R1,R2
11	Swing	45	BB & PPT	R1,R2
12	Servlet	45	BB & PPT	R1,R2