

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

LESSON PLAN

Semester: 3rd Sem

Subject Name: Essential of Information & Technology

Subject Code: PC-CS-305A

Sr. No.	Lecture No.	Topics to Be Covered
1	L 1	Importance and features of Java,
2	L 2	Concepts of Java Virtual machine (JVM),
3	L 3	Keywords, Constants, Variables and data types,
4	L 4	Operators and Expressions, Control statements,
5	L 5	Conditional statements, loops and iterations.
6	L 6	Class definition, adding variables and methods, creating objects,
7	L 7	Constructors, defining methods, calling methods, method overloading.
8	L 8	Creating an array, one and two dimensional array,
9	L 9	String array and methods String and String Buffer classes,
10	L 10	Multi Threading in java (Content Beyond Syllabus)
11	L 11	Wrapper classes. Packages and Interfaces,
12	L 12	Exception Handling.
13	L 13	Introduction to Design of User Interfaces
14	L 14	Swing, Text Fields, Buttons, button Class, Check Box
15	L 15	Applet, Icons and Labels, Text Fields, Buttons, button Class, Check Box, Radio Buttons,
16	L16	The Container, Panel, Windows, and Frame Classes,
17	L 17	Combo Box, Tabbed Panes, Scroll Panes, Trees, Tables.

18	L 18	Introduction to Servlets,
19	L 19	Life cycle of Servlets,
20	L 20	Creating, Compiling and running servlet,
21	L 21	Revision of object oriented concepts
22	L 22	Reading the servlet Parameters,
23	L 23	Reading Initialization parameter,
24	L 24	Packages- javax.servletPackage,
25	L 25	Handling HTTP
26	L 26	Request and Response (GET / POST Request),
27	L 27	Handling Cookies
28	L 28	Session Tracking.
29	L 29	Introduction to Advance Java
30	L29	Collection API,
31	L 30	list, Map, Tree interface with examples
32	L31	Hashing concept
33	L32	Introduction to JDBC, JDBC Fundamentals,
34	L32	Establishing Connectivity and working with connection interface with example
35	L33	working with statements, Creating and Executing SQL statements,
36	L34	Discussion on Assignment
37	L35	working with Result Set Object & Result Set Meta Data.
38	L38	Discussion on Sessional Test Questions
39	L39	Designing of MVC website including JDBC (Content Beyond Syllabus)
40	L40	Standard Template Library