



INDUSTRIAL TRAINING ON JAVA

DURATION: 26 Weeks

COURSE CONTENTS

Core Java Programming:

1. Fundamentals of Object-Oriented Programming, Java Evolution, Java History
2. Java Features: Overview of Java Language, Constants, Variables and Data Types, Operators and Expressions, Decision making, branching and looping.
3. Classes, Objects and Methods, Arrays, String and Collections, Interfaces, Packages, Managing Errors and Exceptions
4. Lambda Expression, Exploring java.time package.
5. Multithreading, Applet Programming, Java AWT, Event Handling
6. Java Swings components.
6. Java I/O Handling, Java Database Connectivity(JDBC)

Advanced Java Programming:

1. Introduction to Web application Development, MVC Architecture
2. Servlets, HttpServletRequest, HttpServletResponse, RequestDispatcher, Filters.
3. Basics of HTML, CSS(Cascading Style Sheets)
4. Introduction to Java Server Pages(JSP), JSP Scripting Elements, Java Beans, JSP Standard Actions, JSP implicit objects, JavaScript
4. JSTL Tags, JSP Directives, Working with session and cookies
5. Struts2: Features, Model1 vs Model2, Architecture, Steps to create Struts2 Application

Database Concepts:

1. Introduction to Database Server, MYSQL
2. Creating Database, Creating Tables, Relations.
3. MYSQL Workbench.

Industrial Project:

1. Front End: Java
2. Back End: MYSQL
3. Operating System: Window/ Linux