



Java

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Overview

Java course is mainly designed for fresh graduates with keen interest in application development and working professionals who want to improve their skillset with current technology trends. The Course primarily focuses on delivering in-depth and Hands-on Core Java, Object Oriented Programming in Java, Packages and Multi-Threading, Java Collections, JDBC, Servlets, JSP, Hibernate, Spring, AJAX and Design patterns, Introduction to SQL Server, Stored Procedures and JOINS.

By the end of the course, students will be able to:

- Create business components necessary for application includes design, develop and unit test the developed components.
- Gains ability to design both monolithic applications and Microservices
- Working with basic SQL server queries



Students

Fresh Graduates

Students who want to improve the skill set and meet the current trends in the job market. They will be able to make their own Career in the world of Information Technology.

Career Shift

Someone looking for a career shift or start the career after having some gap in their career. This program helps to bridge the gap and make their career in Information Technology.



Curriculum

Java Basics

- Overview of Java
- Data Types & Variables
- Naming Convention of Variables
- Control Statements
- Operators

Java Constructs

- Class & Objects
- Constructor
- Arrays
- For Loop
- While Loop
- Do-While Loop

OOPs Concepts

- Defining and Importing Packages
- Inheritance
- Super Keyword
- Method and Classes
- Method Overloading
- Method Overriding



Interfaces and Enums

- Abstract Class
- Abstract Methods
- Defining & Implementing an Interface
- Enums

Dynamic Data Storage

- I/O Basics
- Reading Console Input
- Writing Console output
- Array list
- Methods with Array list
- Hash Map & Hash Tables
- Iterator

Threads

- Java Thread Model
- Thread Priorities
- Synchronization
- Creation of Threads in Multiple Ways
- Runnable
- Inter-thread Communication

Exception Handling

- Exceptions
- Exception Handling and Deadlock

Database and JDBC

- SQL Basics
- Basic Functions
- Joins
- JDBC Basics
- Connecting to Databases



Spring

- Introduction to Spring
- Spring Configurations
- Data Access
- Spring Web
- Spring Integrations
- Spring Security