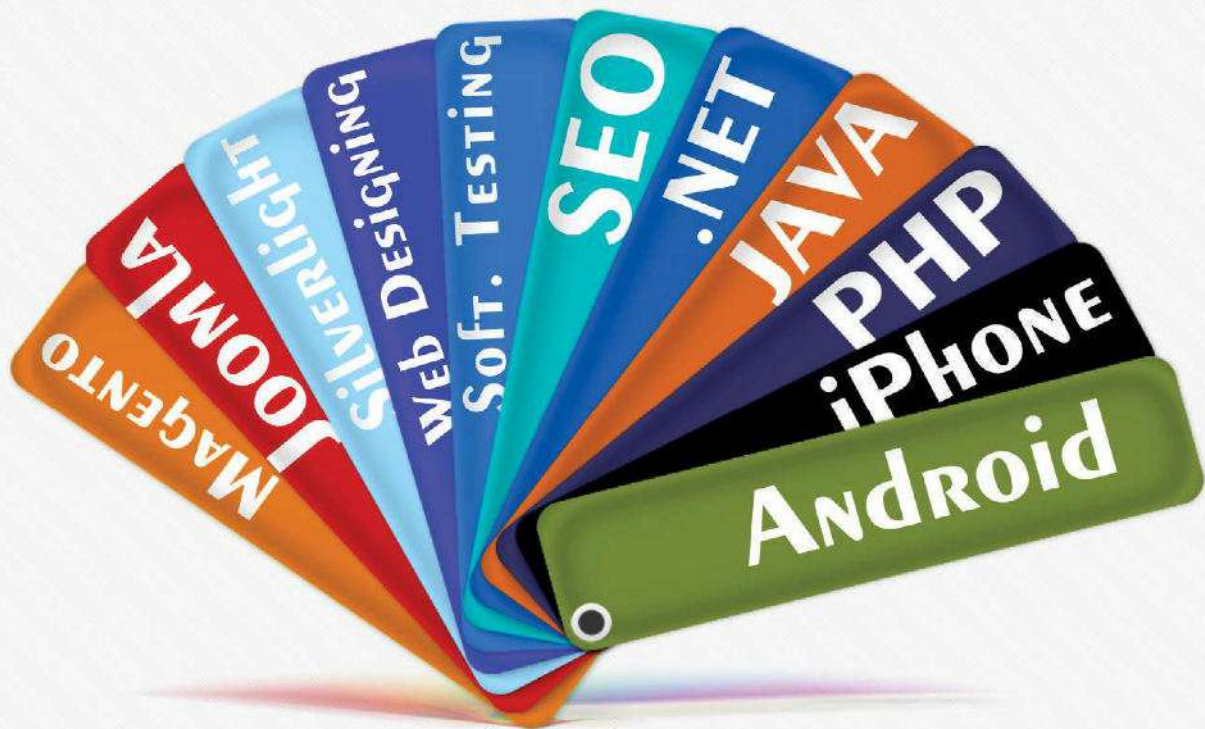


# TOPS

## Technologies

TRAINING - OUTSOURCING - PLACEMENT SERVICES



## JAVA

### OTHER COURSES OFFERED

- PHP - .NET - JAVA - C,C++
- IPHONE - ANDROID
- SEO - SOFT. TESTING - WEB DESIGNING - MOBILE TESTING
- SILVERLIGHT - JOOMLA - MAGENTO - WPF - WORDPRESS
- CODEIGNITER - STRUTS - HIBERNATE

# Application Development with Java

## PRE-REQUISITE

### C&C++ Programming, PL/SQL, Basics of Designing

#### MODULE 1 [Fundamentals]

- Software Engineering
- SDLC Process
- Introduction of Basic Programming fundamentals

#### MODULE 2 [Fundamentals]

- Introduction
- JVM, JDK, JRE
- Class Members
- Class, Object, Class Members
- Data Types
- Modifiers
- Constructor
- Garbage Collection
- Source File Layout
- Flow Control - Conditional and Looping Statement
- Arrays
- Object Oriented Features
  - Encapsulation
  - Inheritance
  - Polymorphism
  - Overloading and Overriding
- Abstract and Interface
- Keywords- this, static, final and super
- Object Wrapper Classes
- String Class with String Buffer and Builder
- Exceptions
- File I/O
  - What is Stream and Types of Stream
  - File Input and Output Stream and its Methods
  - File class with Command Line Arguments
- Threading
- Collection Framework with Generics
  - Collection API
  - List- Vector and ArrayList
  - Set - HashSet
  - Map - Hash Map
  - Generics with example
  - Comparator and Comparable
- Java Serialization and De serialization
- Java GUI using Swing with Event Handling

### MODULE 3 [ RDBMS & Database Programming using JDBC]

- MySQL
- DDL, DML, DQL, DCL
- Constraints and Normalizations
- Joins, index and Views
- Procedures and Functions
- Cursor and Triggers
- Fundamentals of JDBC with Architecture
- Types of Drivers
- Steps of JDBC Connectivity using MySQL
- Types of Statements and Metadata Interfaces
- CRUD Operation using Swing

### MODULE 4 [ WebTechnologies In JAVA ]

- Introduction of Web Designing Technologies [HTML & CSS]
- Introduction of Client side Scripting [JavaScript]
- Introduction of Client and Server Architecture
- HTTP overview with Client and Server Request and Response
- J2EE Architecture
- Web Component Development In Java
  - CGI Programming Process Advantage and Disadvantage
  - Servlet Programming
    - Servlet API with Types
    - Life Cycle
    - Servlet Components, Listeners, Attributes
    - Filters
  - Java Server Pages Programming [ JSP]
    - JSP Translation Process with Life Cycle
    - Types of Scriplate and Components
    - Directives, Implicit Objects and Action Tags
  - JSTL & EL
    - Core Tag Library with EL
    - Custom Tags



# Application Development with Java

## MODULE 5 [ Applicability To Industry ]

- ⦿ Session Management
  - Session Management API
  - Session Tracing Technique
- ⦿ MVC Design Pattern
- ⦿ Introduction to Distributed Technologies in Java
- ⦿ Developing Distributed Application using Restful Web Services

## MODULE 6 [ Hiberate Framework ]

- ⦿ Fundamentals of Hibernate with Architecture
- ⦿ Hibernate Configuration using XML
- ⦿ Types of Relations
  - One to one
  - One to Many
  - Many to One
  - Many to Many

## MODULE 7 [ Spring Framework ]

- ⦿ Spring Core
  - Overview of Spring Framework
  - Introduction of Spring Framework Architecture
  - Spring IOC Container
  - Spring Dependency Injection
  - Spring Bean Definition
  - Aspect Oriented Programming
  - Spring DAO
  - Spring ORM
- ⦿ Spring MVC
  - Introduction
  - Request Flow
  - Framework Initialization/Configuration
  - Spring Configuration with Eclipse
  - Spring Page Redirection
  - Spring static page Redirection
  - Spring Web Forms
  - Spring Session Management
  - Spring MVC integration with Hibernate using CRUD Operation

## MODULE 8 [ Applicability of Industrial Project ]

- ⦿ Cloud Integration
- ⦿ Application Deployment on Cloud



# COMPANIES WHERE OUR PAST STUDENTS ARE WORKING



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