
Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for Java Given below is the brief description for the course you are looking for:

Core Java

- Fundamentals of Object-Oriented Programming
- Procedure-oriented Vs Object oriented Programming.
- Basic concepts of Object-Oriented Programming -
- Object and classes.
- Data Abstraction and Encapsulation
- Inheritance
- Polymorphism
- Dynamic Binding.
- JAVA Evolution Java History Why Java?
- Java Features
- Constants, Variables, and Data Types.
- Operators and Expressions.
- Decision Making and Branching.
- Decision Making and Looping.
- Arrays, Strings and vectors
- Interfaces: Multiple Inheritance
- Packages-Putting Class Together
 - Java API Packages
 - Using System Packages
 - Creating and Accessing a Package

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- Adding a class to a package

 - Managing errors and Exceptions
 - Types of Errors- Compile-Time and Run –Time
 - Syntax of Exception Handling Code
 - Multiple catch Statements
 - Using finally Statement
 - Throwing Our Own exceptions

 - File Handling

 - Multithreaded Programming
 - What are the threads?
 - Creating Threads
 - Extending the Thread Class
 - Stopping and Blocking a Thread
 - life Cycle of a Thread Using Thread Methods
 - Thread Exceptions
 - Thread Priority
 - Implementing the ‘Runnable’ Interface

 - Applet programming

 - Java Collection
 - Introduction
 - The Collection Interface
 - The Set Interface and Classes in Details
 - The List Interface and Classes in Details

- Threads Java Thread Model
 - Creating and Running Threads
 - Manipulating Thread State
 - Thread Synchronization
 - Volatile Fields vs. Synchronized Methods
 - wait and notify join and sleep
 - The Concurrency API

- JDBC Fundamentals
 - What is the JDBC API?
 - JDBC Drivers Making a Connection
 - Creating and Executing a Statement
 - Retrieving Values from a ResultSet
 - SQL and Java Datatypes
 - Creating and Updating Tables

Advanced Java

- JSP and Servlets
 - Overview of Servlets and JSP
 - What is a Java servlet?
 - What advantage does a Java servlet have over a traditional CGI
 - What is JSP?
 - What are the advantages of JSP?

- Servlets
 - Basic Servlet Structure

- A Simple Servlet Generating Plain Text
 - Compiling and Invoking the Servlet
 - A Simple Servlet Generating HTML
 - Some Simple HTML Utilities for Servlets
-
- Processing the Request
 - Form Data Introduction Format,
 - URL-encoding(GET, POST) Example:
 - Reading Specific Parameters
 - HTTP Request Headers
 - Common Request Headers and Their Meaning
 - Reading Headers from Servlets

 - Generating the Response:
 - HTTP Status Codes
 - Overview: Status Codes and Messages
 - Setting Status Codes from Servlets
 - HTTP 1.1 Status Codes and Their Meanings
 - HTTP Response Headers Overview
 - Common Response Headers and Their Meaning

 - Session Tracking
 - Overview of Session Tracking
 - The Servlet Session Tracking API Example

 - JavaServer Pages JSP
 - JSP Overview

- JSP Syntax Summary
- Template Text Static HTML)
- JSP Scripting Elements: Expressions, Script lets, and Declarations JSP Directives

J2EE Struts 2

- Struts 2 Features
- Struts 2 History
- Struts 2 Architecture
- Why Struts 2
- Struts 1.x Vs Struts 2.x
- Downloading and Installing Struts
- Struts 2 Hello World Application
- Creating the development directory Structure
- Writing Jsp, Java and Configuration files
- Struts 2 xml configuration file
- Struts 2 Actions
- Struts 2 Actions Example.
- Struts 2 Actions Introduction
- Struts 2 Redirect Action Struts 2 Login Application

Spring

- Spring 3 .0
 - Introduction
 - Spring 3.0 Features
 - Spring 3 Hello World Example

- @configuration annotation in Spring

- Spring 2.5
 - Introduction to the Spring Framework
 - Downloading and Installing Spring
 - Installing Spring Framework
 - Spring Injection Example
 - Inheritance in Spring
 - Calling Constructor in Spring.
 - init Method in Spring
 - Bean life cycle in spring

- **Spring 2.5 MVC**
 - Spring MVC Introduction
 - How Spring MVC Works
 - Spring MVC Controllers hierarchy
 - Spring MVC Getting Started
 - Spring MVC Hello World

Hibernate 3.0

- ❖ Introduction to Hibernate 3.0
- ❖ Hibernate Architecture
- ❖ First Hibernate Application
- ❖ Running the Example in Eclipse.
- ❖ Understanding Hibernate O/R Mapping
- ❖ Understanding Hibernate <generator> element
- ❖ Using Hibernate <generator> to generate id incrementally
- ❖ Hibernate Update Query
- ❖ Hibernate Delete Query

Hibernate Query Language

- ❖ Introduction to Hibernate Query Language
- ❖ Preparing table for HQL Examples
- ❖ Developing POJO class
- ❖ HQL from Clause
- ❖ HQL Select Clause
- ❖ Hibernate Count Query
- ❖ Hibernate Avg() Function (Aggregate Functions)
- ❖ Hibernate Max() Function (Aggregate Functions)
- ❖ Hibernate Min() Function (Aggregate Functions)
- ❖ HQL Where Clause
- ❖ HQL Group By Clause
- ❖ HQL Order By Example

Hibernate Criteria Query

- ❖ Hibernate Criteria Query Example
- ❖ Narrowing the result set
- ❖ Hibernate's Built-in criterion: Between (using Integer)
- ❖ Hibernate's Built-in criterion: Between (using Date)
- ❖ Hibernate Criteria Expression (eq)
- ❖ Hibernate Criteria Expression (lt)
- ❖ Hibernate Criteria Expression (le)
- ❖ Hibernate Criteria Expression (gt)
- ❖ Hibernate Criteria Expression (ge)
- ❖ Hibernate Criteria Expression (and)
- ❖ Hibernate Criteria Expression (or)
- ❖ Insert Data into Database Using Hibernate Native SQL
- ❖ Hibernate Native SQL Example
- ❖ Associations and Joins
- ❖ Hibernate Aggregate Functions (Associations and Joins)
- ❖ Hibernate Subqueries

Hibernate Projections

- ❖ Hibernate Projections
- ❖ Hibernate Projections (rowCount or countDistinct)
- ❖ Hibernate Projection Count
- ❖ Hibernate Projection Example (Sum).
- ❖ Hibernate How To?

Hibernate types

Trainer Profile:-

- M. Tech (Information Security) 2011-13 from Birla Institute of Technology, Mesra.
- Done M.Tech. Thesis on securing SMS malware detection on Android Phone.
- Good understanding of Android, Core Java, JSP, Servlets, Sql Procedures & UNIX scripts.
- 7 years' experience on Java & Android

Duration:-4 Months (Core-1.5 Months & Advance-2.5Months)

Fees:-Rs 15,000/- (Core-7000 & Advance-9000)-

(Get 10 % discount on onetime payment).

(Note:-Flat 10% Discount on the Same Day joining of Demo)

Counselling