

Advance JAVA Training

Durations:6 Months

Fee:-12,500 only

Introduction to Java programming

The Java Virtual Machine, Variables and data types, Conditional and looping constructs ,Arrays

Object-oriented programming with Java Classes and Objects

Fields and Methods, Constructors, Overloading methods, Garbage collection , Nested classes

Inheritance (Overriding methods, Polymorphism, Making methods and classes final, Abstract classes and methods, Interfaces)

Exception handling with try-throw-catch-finally construct (The Exception class)

The Object class (Cloning objects,The JDK LinkedList class, Strings , String conversions)

Working with types: Wrapper classes (Enumeration interface)

Packages (Package access ,Documentation comments)

Applets (Configuring applets,Applet capabilities and restrictions)

Basics of AWT and Swing (Layout Managers, Event Handling,The Action Listener interface,Panels,Classes for various controls, such as label, choice, list,Checkbox,etc.,Dialogs and frames ,Using menus)

Threads (Synchronisation)

The I/O Package (InputStream and OutputStream classes, Reader andWriter classes)

Basic concepts of networking (Working with URLs,Concepts of URLs , Socket)

Database connectivity with JDBC (Java security)

Java/J2ee SYLLABUS

Introduction to Enterprise Edition ,Distributed Multitier Applications ,J2EE Containers, Web Services Support , Packaging Applications , J2EE 1.4 APIs)

Web Designing:-(HTML 5, CSS3 , JavaScript, JQuery,AJAX,XML,Photoshop)

SQL(DDL ,DML,DCL,TCL)

JDBC

What Is the JDBC API?, Driver Types , Two-tier and Three-tier Models ,Connection Overview, Transactions, DriverManager Overview ,Statement Overview ,Sending Batch Updates ,ResultSet Overview , Types of Result Sets , Concurrency Types , PreparedStatement Overview ,CallableStatement Overview

Java Servlet Technology

What is Web Application? What Is a Servlet ? Servlet Life Cycle, Sharing Information, Using Scope Objects ,Controlling Concurrent Access, Getting Information from Requests, Constructing Responses, Filtering Requests and Responses, Programming Filters, Customized Requests and Responses, Specifying Filter Mappings, Invoking Other Web Resources, Including Other Resources in, the Response, Transferring Control ,Accessing the Web Context, Maintaining Client State, Session Management, Session Tracking, Tracking Service Requests, Notifying Methods to Shut Down, Creating Polite Long-Running Methods.

JSP Technology

Java Server Pages Technology, The Life Cycle of a JSP Page, Translation and Compilation, Creating Static Content, Response and Page Encoding, Creating Dynamic Content, Using Objects within JSP Pages, Expression Language, Deactivating Expression Evaluation, Implicit Objects, Literals & Operators, Reserved Words, JavaBeans Components, Reusing Content in JSP Pages, Transferring Control ,jsp:param Element, Including an Applet, Setting Properties for, Groups of JSP Pages.

Custom Tags in JSP Pages (What Is a Custom Tag? Types of Tags ,Tags with Attributes ,Tags with Bodies , Tags That Define Variables , Communication between Tags , Tag Library Descriptors ,Declaring Tag Files

,Declaring Tag Handlers , Declaring Tag Attributes for , Tag Handlers , Declaring Tag Variables for Tag Handlers
Programming Simple Tag Handlers , Including Tag Handlers in ,Web Applications ,Cooperating Tags)

Enterprise Beans

What Is an Enterprise Bean? ,What Is a Session Bean? ,What Is an Entity Bean? , What Is a Message-Driven Bean? ,Client Access with Interfaces ,The Contents of an Enterprise Bean Naming Conventions for Enterprise Beans , The Life Cycles of Enterprise Beans)

Session Bean (Session Bean Class , Home Interface , Remote Interface , Helper Classes , Creating the Application , Stateless Session Bean , Implementation Class)

Bean Managed Persistence (Entity Bean Class , Home Interface ,Remote Interface , Mapping Table Relationships for BMP , One-to-One Relationships , One-to-Many Relationships , Many-to-Many Relationships , Primary Keys for BMP)

Container Managed Persistence (Method Invocations ,Building and Running ,Creating the Database Tables , Creating the Data Source, Capturing the Table Schema ,Building the Enterprise Beans , Primary Keys for CMP , Finder and Selector Methods)

Message Driven Bean (The Application Client,The Message-Driven Bean Class,The onMessage Method, The ejbCreate and ejb, Remove Methods, Advanced Enterprise Beans, EJB: Query Language)

Java Message Service API

Overview,What Is Messaging? ,When Can You Use the JMS API? ,Basic JMS API Concepts ,JMS API Architecture , The JMS API Programming Model , Administered Objects , Connections , Sessions, Message Producers, Message Consumers , Writing Simple JMS Client Applications

STRUTS

Introduction, The MVC Design Pattern , System State and Business Logic , JSP Pages and Presentation, Components, ActionServlet and ActionMapping, Struts Control Flow, Building Model Components, ActionForm Beans, Forms and FormBean Interactions, Automatic Form Validation, Building Controller Components, The ActionServlet, ActionForm Classes & Action Classes, The ActionMapping Implementation, The Struts Configuration File, Controller Configuration, Module Configuration Files, Add Struts Components To, Your Application, Logging in Struts Applications

Java Server Faces

Introduction to JSF, JSF Features , JSF for Web Application , JSF components , JSF Tags, Life Cycle & Architecture , JSF Renderers , JSF HTML Tag Reference , JSF Core Tag Reference , JSF Facelet Tag Reference , JSF Navigation, JSF with Ajax.

Hibernate

Introduction to O-R Mapping , Hibernate Basics, Object Identifier , One-to-One Association , One-to-Many Association , Many-to-One Association , Many-to-Many Association , Collection Mapping, Component Mapping, Inheritance Mapping ,Hibernate Query Language , Hibernate in Web Application

Spring

Spring Core, Dependency Injection , Aspect Oriented Programming, Major concepts in Spring, Spring Architecture, Installation Procedure, Spring in Web Application, Bean descriptor, Spring and Struts, Spring data access, Spring using Hibernate

Note:

Project Work is Compulsory after the Completion of training Program.