



TRAINING
by IT professional



Asian Institute of Digital Marketing



**ASIAN INSTITUTE OF DIGITAL
MARKETING**

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Java Courses

Basic Java Programming Overview

- OOP's concept
- Exception Handling
- Multithreading
- Java IO
- JDBC
- Collection
- Reflection

Basic Java Programming Overview

- HTML
- CSS and CSS2
- JavaScript, JQuery

Java Servlet

- Servlet Introduction
- Servlet Lifecycle
- Servlet Request
- RequestDispatcher and send Redirect
- ServletConfig
- ServletContext
- Servlet Filter
- Servlet input and output Stream
- Single Thread Model
- Servlet Annotation
- SSI
- Session Tracking

- Cookies
- Http Session
- Hidden Form Field and URL rewriting
- Servlet with JDBC

Java Server Page (JSP)

- JSP introduction
- JSP lifecycle
- Scripting Element
- JSP Implicit Object
- Directive Element
- Action Element
- MVC in JSP
- JSTL
- Exception Handling in JSP
- Project Work on JSP and Servlet

Hibernate

Hibernate Introduction

- ORM Introduction
- Advantage of Hibernate over JDBC
- Hibernate Architecture



Java Courses

Methods related to Hibernate

- CRUD operation through Hibernate
- Configuration File introduction
- Hibernate mapping
- Lazy loading and initial Loading

Object's Life Cycle

- Introduction to Transient Object
- Introduction to Persistence Object
- Introduction to Detached Object

Generator Class

- Assign Generator
- Increment Generator
- Sequence Generator
- Hilo and Sequence Hilo Generator
- GUID

HQL

- Advantage of HQL over SQL
- Named Queries
- Positional and Named Parameter

Criteria

- Criterion Interface
- Expression
- Order Class

Hibernate Aggregate Function

- Native SQL
- Projection

Relationships in Hibernate using Collection

- One to One
- One to Many
- Many to Many

Component

- One to One
- One to Many
- Many to Many

Struts

Struts Framework introduction

- Struts1 overview
- Advantage of Struts2 over Struts1
- Struts Flow
- Basic Struts Program

Validation in Struts

- Programmatic
- Declarative
- Annotation



Java Courses

Internationalization (I18N)

File Upload and Download

Interceptor

- Interceptor overview
- Custom Interceptor

Struts Database

- Struts with JDBC
- Struts with Hibernate

Value Stack and OGNL Concept

Sending Email through Struts

Struts Exception Handling

Struts Aware Interface

Struts2 with Tiles framework

Project Work on Struts

Spring

Getting Start with Spring

Spring IOC (Inversion of Control)

- Dependency Injection
- Setter Injection
- Constructor Injection
- Auto wiring Concept
- Introduction to Spring
- Spring Module
- Spring Application

Spring AOP (Aspect oriented Programming)

- Introduction to AOP
- Spring AspectJ Annotation and Spring AspectJ XML.

Spring JDBC

- JDBC Template
- Prepared Statement
- Result Set Extractor
- Row Map per
- Named Parameter
- Simple JDBC Template

Spring with ORM

- Spring with Hibernate
- Spring with JPA
- Spring with iBatis

Spring MVC

- Introduction of Spring MVC
- MVC flow control
- MVC Spring JDBC
- Spring Integration with Velocity
- Spring Integration with JSP
- Spring integration with struts

Spring Validation

Spring with EJB

Spring with JavaMail

Spring with RMI

Project work on Spring MVC.



Java Courses

JPA and EJB

- Getting Start with JPA
- Introduction of JPA ORM
- Methods of JPA
- JPA Object life cycle
- JPQL
- JNDI
- Getting start with Java EJB
- Introduction of Transaction logic
- Session Bean
 - Stateless Session Bean
 - Stateful session bean
 - Message driven bean
- Transaction management
- Java Mail Api
- JMS
- EJBQL
- Java Web Services
- Live Project work



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