[JAVA-A]
[Core & Advance-JAVA]

Note:- 1] Syllabus contain Main topics of language, all sub topics teach into training.

2] Training Certificate will provide.

Training Summary

Core Java Theoretical.

Core Java Practical.

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Advance Java Theoretical.

Advance Java Practical.

1st Test on Theoretical core Java

2nd Test on Practical core Java

Basic Project on core Java

1st Test on Theoretical Advance Java

2nd Test on Practical Advance Java

Basic Project on Advance Java

JAVA Syllabus

Core Java

- ✔ Java - What, Where and Why?
- ✔ History and Features of Java
- ✔ Internals of Java Program
- ✔ Difference between JDK,JRE and JVM
- ✔ Internal Details of JVM
- ✔ Variable and Data Type
- ✔ Naming Convention

OOPS Concepts

- ✔ Advantage of OOPs
- ✔ Object and Class
- ✔ Method Overloading
- ✔ Constructor
- ✔ static variable, method and block
- ✔ this keyword
- ✔ Inheritance (IS-A)

✔ Aggregation and Composition(HAS-A)

✔ Method Overriding

✔ Covariant Return Type

✔ super keyword

✔ Instance Initializer block

✔ final keyword

✔ Runtime Polymorphism

✔ static and Dynamic binding

✔ Abstract class and Interface

✔ Downcasting with instanceof operator

✔ Package and Access Modifiers

✔ Encapsulation

✔ Java Array

String Handling

✔ String : What and Why?

✔ Immutable String

✔ String Comparison

✔ String Concatenation

✔ Substring

✔ Methods of String class

✔ StringBuffer class

✔ StringBuilder class

✔ Creating Immutable class

✔ toString method

✔ StringTokenizer class

Exception Handling

✔ Exception Handling : What and Why?

✔ try and catch block

✔ Multiple catch block

✔ Nested try

✔ finally block

✔ throw keyword

✔ Exception Propagation

✔ throws keyword

Multithreading

✔ Multithreading : What and Why?

✔ Life Cycle of a Thread

✔ Creating Thread

JDBC

✔ JDBC Drivers

✔ Steps to connect to the database

✔ Connectivity with Oracle

✔ Connectivity with MySQL

Advance Java Syllabus

Basics of Servlet

✔ Servlet: What and Why?

✔ Basics of Web

✔ Servlet API

✔ Servlet Interface

✔ GenericServlet

✔ HttpServlet

✔ Servlet Life Cycle

✔ Working with Apache Tomcat Server

✔ Steps to create a Servlet in Tomcat

✔ How servlet works?

✔ servlet in Myeclipse

✔ servlet in Eclipse

✔ servlet in Netbeans

JSP

Basics of JSP

✔ Life cycle of JSP

✔ JSP API

✔ JSP in Eclipse and other IDE's

Scripting elements

✔ **scriptlet tag**

✔ **expression tag**

✔ **declaration tag**

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9 Implicit Objects

✔ out

✔ request

✔ response

✔ config

✔ application

✔ session

✔ pageContext

✔ page

✔ exception

Directive Elements

✔ **page directive**

✔ **include directive**

✔ **taglib directive**

Spring Syllabus

Basics of Spring

✔ **What is Spring**

✔ **Spring Modules**

✔ **Spring Application**

Spring with IDE

✔ **Spring in Myeclipse**

✔ **Spring in Eclipse**

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Hibernate Syllabus

Basics of Hibernate

✔ Hibernate Introduction

✔ Hibernate Architecture

✔ Understanding First Hibernate application

Hibernate with IDE

✔ Hibernate in Eclipse
✔ Hibernate in MyEclipse

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