

Diploma in Advance Java Programming (DAJP)

Oracle Java 8 Programmer

- ❖ Creating high-performing multi-threaded applications
- ❖ Creating Java technology applications that leverage the object oriented features of the Java language, such as encapsulation, inheritance, and polymorphism
- ❖ Implementing input/output (I/O) functionality to read from and write to data and text files and understand advanced I/O streams
- ❖ Executing a Java technology application from the command line
- ❖ Manipulating files, directories and file systems using the JDK NIO.2 specification
- ❖ Creating applications that use the Java Collections framework
- ❖ Performing multiple operations on database tables, including creating, reading, updating and deleting using both JDBC and JPA technology
- ❖ Searching and filter collections using Lambda Expressions
- ❖ Implementing error-handling techniques using exception handling
- ❖ Using Lambda Expression concurrency features
- ❖ About Streams in Java 8.

Oracle Database 12c : SQL Fundamentals

- ❖ Identify the major structural components of the Oracle Database 12c
- ❖ Manage objects with data dictionary views
- ❖ Manage schema objects
- ❖ Retrieve row and column data from tables
- ❖ Run data manipulation statements (DML) in Oracle Database 12c
- ❖ Use scalar and correlated sub-queries
- ❖ Utilize views to display data
- ❖ Write SELECT statements that include queries
- ❖ Write multiple-column sub-queries
- ❖ Control database access to specific objects
- ❖ Create reports of aggregated data
- ❖ Create reports of sorted and restricted data
- ❖ Create tables to store data
- ❖ Display data from multiple tables using the ANSI SQL 99 JOIN syntax
- ❖ Employ SQL functions to retrieve customized data

Java EE6 : Develop Web Components with

Servlets and JSP

- ❖ Introduction to Java Servlet
- ❖ Introduction to Java Server Pages
- ❖ Implementing an MVC Design
- ❖ Understanding HTTP request / response cycle and servlet lifecycle
- ❖ Identify services provided by the web container
- ❖ Implement servlet request dispatcher, filters and servlet listeners
- ❖ More view facilities
- ❖ Developing JSP pages using scriptlets, EL and JSTL
- ❖ Developing JSP pages using custom tags
- ❖ More Controller facilities
- ❖ More options for the Model
- ❖ Asynchronous web applications
- ❖ Web application security
- ❖ Create and run an HTML5 applications in NetBeans
- ❖ Write JavaScript code to use variables, objects, functions and arrays
- ❖ Create HTML5 forms to request information and process it

Introduction to JSF and its Components

- ❖ Configure JSF within the Web Container
- ❖ Design views using JSF and EL
- ❖ Design custom components using Facelets
- ❖ Implement templates
- ❖ Design and develop the model using beans or Pojos
- ❖ Integrate external resources such as JPA within Web Application
- ❖ Design web applications using standard architectures, protocols, technologies and components
- ❖ Integrate navigation flow/ redirection
- ❖ Integrate models and views using events
- ❖ Validate application data
- ❖ Use application data conversion
- ❖ Apply AJAX in a JSF page
- ❖ Use HTML5 in JSF applications
- ❖ Configure and secure JSF applications
- ❖ Use third party libraries

Introduction to Webservices and REST API

- ❖ What is web service?
- ❖ Need for Webservice and API

- ❖ Webservices Components
- ❖ What is SOAP and REST ?Difference among them.
- ❖ Web Service Description Language(WSDL).
- ❖ Introduction to SOA and the impact of web service in it.
- ❖ Building a RESTful web service
- ❖ Intro to POSTMAN tool for REST API

Spring Framework

- ❖ Introduction to Springs
- ❖ Features of Spring Framework and its Architecture
- ❖ Installation of Spring Framework'
- ❖ Aspect Oriented Programming
- ❖ Types of AOP
- ❖ About Advice and Advice Types
- ❖ Pointcuts and its types
- ❖ Minimizing spring configuration
- ❖ Different types of configuration
- ❖ Spring DAO
- ❖ Spring MVC
- ❖ Programmatic and Declarative Transactions
- ❖ Spring Design Patterns

Introduction to Junit

- ❖ Introduction to Junit
- ❖ Annotations in Junit 4.0
- ❖ Assertions
- ❖ Methods in Assertions

Git - Version Control Tool

- ❖ Review
 - Perform
 - Commit
 - Push
 - Update
 - Move
 - Rename
 - Tag
- ❖ Managing BranchesIntro to Git
- ❖ Need for Git

- ❖ Git Lifecycle
- ❖ Git Operations
 - Create
 - Review
 - Perform
 - Commit
 - Push
 - Update
 - Move
 - Rename
 - Tag
- ❖ Managing Branches

UX Business Solutions