Java Advanced J2EE

Duration - 2 Months

o **Module – I [Introduction]**
  - Enterprise Architecture
    - o Single Tier Architecture
    - o 2- Tier Architecture
    - o 3- Tier Architecture
    - o n- Tier Architecture
  - Java EE Architecture and Containers
  - Java EE Related Technologies
  - Client Side v/s Server Side Programming
  - RMI(Remote Method Invocation)

o **Module – II [Introduction to Web Technologies]**
  - Understanding HTTP Protocol
  - Get VS Post Method
  - HTML
  - CSS
  - JavaScript

o **Module – III [Introduction to Java EE]**
  - Various Types of Java EE Servers
  - Implementing Apache Tomcat
  - Application Deployment

o **Module – IV [JDBC Programming]**
  - What is JDBC
  - Component of JDBC
  - JDBC Architecture
  - JDBC Drivers
    - Connection
    - DatabaseMetaData
    - PreparedStatement
    - o Statement
    - o Driver
    - o CallableStatement
    - o ResultSet
    - o DriverManager
    - o ResultSetMetaData
    - o SqlData
    - o Blob
    - o Clob
    - o Rowset
    - o Batch Processing

  - o Transaction Management
  - o Connection Pooling
  - o SavePoint

o **Module – V [Servlet Porgramming]**
  - What is Servlet
  - Features of Servlet
  - Difference Between Servlet and CGI
  - Servlet Life Cycle
  - Servlet Configuration
  - GenericsServlet
  - Http Servlet
  - Serveletconfig.
  - Servletcontext
  - Event Handling in Servlet
  - Request Dispatcher
    - o rd.include()
    - o rd.forward()
  - Implementing Filters

o **Module – VI [JSP and Java Bean]**
  - What is JSP
  - Features of JSP
  - Architecture of JSP
  - JSP Page Life Cycle
  - JSP Elements
    - o Directives
    - o Scripting Elements
    - o Action Elements
  - JSP Expression Language
  - JSP Tag Handlers
    - o Custom Tag Handlers VS Simple Tag Handlers
  - JSTL (JavaServer Pages Standard Tag Library)
  - Understanding Java Beans
  - Using Java Beans in JSP
  - Introducing MVC Design Pattern
  - State Management
    - o Cookies
    - o Session Object
    - o Application Object