

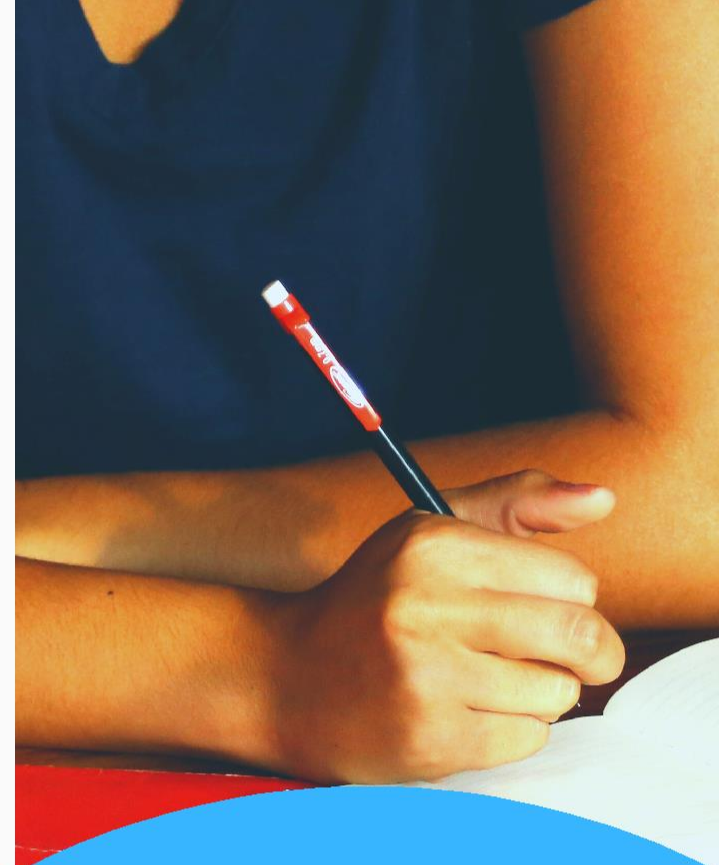
BBS Technologies

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J2EE

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J2EE Course Content

Module 1: JDBC

- Introduction to JDBC
- Databases and Drivers
- Types of Driver
- Loading a driver class file
- Establishing the Connection to different Database with different Driver
- Executing SQL queries by ResultSet, Statements , PreparedStatement interface.
- Using CallableStatement
- Transaction Management & BatchUpdate
- Programs/Interview related Question and Answer

Module 2: JSP

- Basics Of Jsp
 - Life cycle of JSP
 - JSP API
 - JSP in Eclipse and other IDE's
 - Programs/Interview related Question and Answer.
- Scripting Elements
 - scriptlet tag
 - expression tag
 - declaration tag
 - Programs/Interview related Question and Answer.
- Implicit Objects
 - out
 - request

- response
 - config
 - application
 - session
 - pageContext
 - page
 - exception
 - Programs/Interview related Question and Answer.
- **Directive Elements**
 - page directive
 - include directive
 - taglib directive
 - Programs/Interview related Question and Answer.
 - **Exception Handling**
 - **Action Elements**
 - jsp:forward
 - jsp:include
 - Bean class
 - jsp:useBean
 - jsp:setProperty & jsp:getProperty
 - Displaying applet in JSP
 - **Expression Language**
 - What is expression and how to use it
 - Define expression and use over the service flow
 - The way to be achieve same in JSP
 - **Mvc In Jsp**
 - MVC pattern
 - Working flow implementation of MVC
 - CRUD operation using MVC

- Design a real time web application using MVC
- JSTL
 - Discussion on the tag library
 - How to implement and use
- Custom Tags
 - Custom Tag : What and Why?
 - Custom Tag API?
 - Custom Tag Example
 - Attributes
 - Iteration
 - Custom URI

Module 3: Servlet

- 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 request
 - Servlet Request methods
 - Registration example with DB

- Servlet Collaboration
 - Request Dispatcher
 - send Redirect
- Servlet Configure
 - Servlet Configure methods
 - Servlet Configure example
- Servlet Context
 - Servlet Context methods
 - Servlet Context example
- Session Tracking
 - Cookies
 - Hidden Form Field
 - URL Rewriting
 - HttpSession

Module 4: Concurrent and implementation of collection

- Implementation of ArrayList
- Implementation of LinkedList
- Implementation of HashMap
- Implementation of Queue/PriorityQueue/Deque

Module 5: Advanced Multi-Threading

- Implementation of Executor pool service and working mechanism with real time
- Big file(Single , multiple) processing using multiple thread
- Implementation to achieve thread class and runnable interface

Module 6: Javamail Api

- Sending Email

- Sending email through Gmail server
- Receiving Email
- Sending HTML content

Module 7: Design Pattern

- Singleton
- DAO
- DTO
- MVC
- Front Controller
- Factory Method
- Abstract
- etc

Module 8: Junit

- JUnit: What and Why?
- Annotations used in JUnit
- Assert class
- Test Cases

Module 9: Maven

- Maven: What and Why?
- Ant Vs Maven
- How to install Maven?
- Maven Repository
- Understanding pom.xml
- Maven Example
- Maven Web App Example
- Maven using Eclipse