# J2EE Course Details

By Besant Technologies

<table>
<thead>
<tr>
<th><strong>Course Name</strong></th>
<th>J2EE</th>
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<tbody>
<tr>
<td><strong>Category</strong></td>
<td>Application Programming Language</td>
</tr>
<tr>
<td><strong>Venue</strong></td>
<td>Besant Technologies</td>
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<tr>
<td><strong>Address</strong></td>
<td>No.24, Nagendra Nagar, Velachery Main Road,</td>
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<td></td>
<td>Velachery, Chennai – 600 042</td>
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<td></td>
<td>Landmark – Opposite to Phoenix Market City</td>
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<tr>
<td><strong>Official URL</strong></td>
<td><a href="#">J2EE Training</a></td>
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<tr>
<td><strong>Demo Classes</strong></td>
<td>At Your Convenience</td>
</tr>
<tr>
<td><strong>Training Methodology</strong></td>
<td>20% Theory &amp; 80% Practical</td>
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<tr>
<td><strong>Course Duration</strong></td>
<td>15-20 Hours</td>
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<tr>
<td><strong>Class Availability</strong></td>
<td>Weekdays &amp; Weekends</td>
</tr>
<tr>
<td><strong>For Demo Class</strong></td>
<td>Call - +91-996 252 8293 / 94</td>
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<td></td>
<td>Email ID – <a href="#">besanttech@gmail.com</a></td>
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## Why Besant Technologies?

- Training by highly experienced and certified professionals
- No slideshow (PPT) training, fully Hand-on training
- Interactive session with interview QA’s
- Real-time projects scenarios & Certification Help
- Most competitive & affordable course fees
- Placement support for all courses
- List of established & satisfied clients & students ([Visit our website for reviews](#)).
J2EE Training Outline

**Java EE Introduction**
- Java EE Overview
- Java EE Technologies
- Java EE Architecture
- MVC

**Servlets and JSP with the JSP Standard Tag Library (JSTL)**
- Web Application Basics
  - How the Web works, Thin Clients, TCP/IP
  - HTTP overview, Brief HTML review
  - Overview of Java EE, servlets & Web applications.
  - Servlet Basics
- Servlet API
  - HTML Forms
  - HTTP: Request-response, headers, GET, POST
  - Overview: How Servlets Work
    - Servlet Lifecycle: init(), service(), destroy()
    - Requests and responses
  - Core Servlet API: GenericServlet, ServletRequest, and ServletResponse
  - HTTP Servlets: HttpServletRequest, HttpServletResponse and HttpServlet
  - Accessing Parameters
- Additional Servlet Capabilities
  - HTTP headers and MIME types
  - RequestDispatcher: Including and forwarding
  - Sharing data with the request object attributes
  - Sharing data with ServletContext attributes
  - Error Handling
- JavaServer Pages
  - Basics and Overview
    - JSP architecture
    - JSP tags and JSP expressions
    - Fixed Template Data
    - Lifecycle of a JSP
  - Model View Controller (MVC)
    - Model 1/Model 2 Architecture
  - Data Sharing among servlets & JSP
    - Object scopes or “buckets”
    - Request, application, session and page scope
    - Predefined JSP implicit objects (request, session, application, page)
• Using Custom Tags
  o Custom tags overview
  o Reducing JSP complexity
  o Tag Libraries
    ▪ Tag Library Descriptor (TLD)
    ▪ Loading a tag library in a web app
  o The JSTL
  o JSP Expression Language (EL)
  o Using custom tags
    ▪ The c:url, c:param, c:forEach, c:out tags

• More JSP Capabilities and Session Management
  o HTTP as a stateless protocol
  o Hidden form fields
  o Cookies: Overview, API, Using cookies
  o Session overview: Cookies and session tracking
  o HttpSession
    ▪ Putting data into a session object
    ▪ Retrieving data from a session object
  o Using session data in servlets and JSPs
  o Additional JSP Capabilities
    ▪ Exception handling and error pages
    ▪ Directives (page, include, others)
  o Import declarations
  o Multithreading considerations and data safety
    ▪ SingleThreadModel interface

• Additional JSP Capabilities
  o JSP Directives
  o JSP Error Pages
  o JSP and Java
    ▪ Declarations, Scriptlet overview, Scriptlet syntax

• More JSTL
  o Overview of JSTL libraries
  o The JSTL Expression Language
    ▪ Expressions, Type Coercion, Operators, String concatenation, Implicit Objects
  o The Core JSTL Library
    ▪ General Purpose: c:out, c:set, c:catch
• Conditional: c:if, c:choose,
  o Overview of other capabilities

• Additional Topics
  o Servlet Filter overview
    ▪ Filtering examples, lifecycle, & filter chains
    ▪ Filter API, Modifying a request, Modifying a response

**JDBC**

• Introduction
  o Relational Database and JDBC Overview
    ▪ Overview, Table Relationships, Web Based Data Access, JDBC Characteristics
  o JDBC Architecture, JDBC API Overview
    ▪ DriverManager, JDBC Drivers
    ▪ Naming databases with JDBC URLs
  o Connecting to a database
    ▪ Connection interface, Establishing a connection
  o DataBaseMetaData
  o Handling Database Exceptions

• Data Access
  o DAO – Data Access Objects, O-R Mapping, Value Objects
  o Processing Database Data
    ▪ Executing statements, precompiled statements and stored procedures
    ▪ Processing ResultSets,
    ▪ Dealing with Null data
    ▪ Updating, inserting, retrieving data
    ▪ Controlling Transactions
  o JDBC Driver Types
  o DataSource
    ▪ Java EE and DataSource, Using JNDI
  o Connection Pooling
    ▪ Overview, Usage, Advantages

**Component Integration**

• Database Integration
  o Web Architecture choices
  o Connecting servlets to a database via DataSource

• Other Technologies
  o XML and Web Services
  o JMS – Java Message Service

• Labs
  o Accessing a database from a servlet