

**No. 1 Institute**  
Computer Education

  
**COMPUTER  
POINT NEPAL**  
An ISO 9001:2000 Certified Organization

{ JAVA Academy }

Be a Professional J2EE Developer

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## CPN Java Academy Approach

Career and Technology are counseled here by professionals from the technology and the HR domains. Students are trained on live projects for technologies which are the most demanded in the industry.

The Java training program is set up, in collaboration with our customers, in the way that after a month of intensive training, the students are capable of assuming the job of a developer or an analyst.

The Java training program is organized in collaboration with the best Certified & Qualified teachers. The training is based on Oracle Official course curriculum. After the completion of training, your level of knowledge is expert level and you can also appear for global certification exams.

## TRAINING & CERTIFICATION

Be a  
**Professional J2EE**  
Developer



### Master in JAVA Programming

- ▶ Oracle Certified Professional, Java SE 6 Programmer (EXAM 1Z0-851)
- ▶ Oracle Certified Professional, Java EE 5 Web Component Developer (EXAM 1Z0-858)
- ▶ Oracle Certified Professional, Java EE 5 Business Component Developer (EXAM 1Z0-860)

## Java Programming Language, Java SE 6 (SL-275-SE6)

Duration : 40 hours

### What you will learn

The Java Programming Language course provides students with a solid foundation for programming with Java, including: information about the syntax of the Java programming language; object-oriented programming with the Java programming language; creating graphical user interfaces (GUIs), exceptions, file input/output (I/O), and threads; and networking. Programmers familiar with object-oriented concepts can learn how to develop Java technology applications. The course features the Java Platform, Standard Edition 6 (Java SE 6) platform, and utilizes the Java SE Development Kit 6 (JDK 6) product. The students perform the course lab exercises using the NetBeans Integrated Development Environment (IDE).

### Course Topics

- Getting Started with Java technology application
- Object-Oriented Programming
- Identifiers, Keywords, and Types
- Expressions and Flow Control
- Arrays
- Class Design
- Advanced Class Features
- Exceptions and Assertions
- Collections and Generics Framework
- I/O Fundamentals
- Console I/ O and File I/O
- Building Java GUIs Using the Swing API
- Handling GUI-Generated Events
- GUI-Based Applications
- Threads
- Networking

## Web Component Development with Servlets & JSPs, Java EE 5 (SL-314-EE5)

- Duration : 40 hours

### What you will learn

JavaServer Pages (JSP page) technology and servlets are the key web-tier technologies defined in the Java Platform, Enterprise Edition (Java EE platform). The Web Component Development With Servlet and JSP Technologies course provides experienced developers of Java technology applications the knowledge and skills to quickly build web applications from JSP page and servlet technologies using the Sun Java System Application Server, and the Apache Struts framework. Students are exposed to the current methods for analyzing, designing, developing, and deploying web applications with Java technologies. Lab exercises provide students with experience in constructing and deploying the small-to-medium scale web applications found in intranet and low-volume commercial sites. The course features the Java EE 5 technology, and uses the Java EE 5 SDK. The students perform the lab exercises using the NetBeans Integrated Development Environment (IDE).

### Course Topics

- Introduction to Web Application Technologies
- Developing a View Component
- Developing a Controller Component
- Developing Dynamic Forms
- Using Filters in Web Applications
- Integrating Web Applications With Databases
- Developing JSP Pages
- Developing JSP Pages Using Custom Tags

- Sharing Application Resources
  - Using the Servlet Context
- Designing the Business Tier
- Developing a Web Application Using Struts
- Developing Web Applications Using Session Management
- Developing Web Applications
  - Using Struts Action Forms
- Building Reusable Web Presentation Components

## Business Component Development with EJB Technology, Java EE 5 (SL-351-EE5)

- Duration : 40 hours

### What you will learn

The Business Component Development with Enterprise JavaBeans Technology course provides students with the knowledge of how to develop robust back-end functionality using Enterprise JavaBeans (EJB(TM)) version 3.0 technology. This course uses an online auction scenario to demonstrate how to leverage container-managed services with session and message beans, and entity classes to resolve the real-world problems presented by an electronic commerce application. The emphasis of this course is on providing practical EJB technology coding experience, while also covering the designs and best practices used to solve transaction, messaging, and security issues. The course features the Java Platform, Enterprise Edition 5 (Java EE 5) technology, and uses the Java EE 5 SDK. The students perform the course lab exercises using the NetBeans Integrated Development Environment (IDE). The hands-on lab environment uses the Java EE reference implementation server to provide students with a non-vendor-specific experience.

### Course Topics

- Examining EJB Applications
- Introducing the Auction Application
- Implementing EJB 3.0 Session Beans
- Implementing Entity Classes: The Basics
- Implementing Entity Classes:
  - Modelling Data Association Relationships
- Implementing Entity Classes:
  - Modelling Inheritance Relationships
- Using the Java Persistence Query Language (QL)
- Developing Java EE Applications Using Messaging
- Developing Message-Driven Beans
- Implementing Interceptor Classes and Methods
- Implementing Transactions
- Handling Exceptions
- Using Timer Services
- Implementing Security
- Using EJB Technology Best Practices

**The Best Training  
Methodology by CPN**

