

## Short Term Courses – NIELIT Delhi Centre

### CORE JAVA

#### Objective of the Course:

The objective of this course is to create understanding of core concepts of Java.

#### Learning Outcomes:

After the completion of this course, students will gain knowledge about core java. Students will also learn how to design & develop database & core Java based applications. After successful completion of this course students will be able to take up any Job opportunities in field of IT.

**Duration of course- 60 hours**

**Duration of course- 80 hours (with project)**

**Eligibility Criteria:** The student must be familiar with any programming language.

#### Outline of Course

S. NO.	TOPICS	Hours
1.	Installation & Setup and Fundamentals of java	4
2.	Control Statements(if-else, Switch, Java for loop)Loop Control Structures& Arrays etc	4
3.	Oops Concepts(Object and Class, Constructor, Abstract class ,Interface, Package, Access Modifiers, Encapsulation)	16
4.	Threading, Input/output Streams, Exception Handling Applet, AWT, Swings, Event handling etc	26
5.	Introduction to Database, JDBC and database connectivity	10
6.	Project work	20
	<b>Theory / Lecture Hours</b>	30 Hours
	<b>Practical Hours</b>	30 Hours
	<b>Project</b>	20 Hours
	<b>Total Hours</b>	80 Hours

#### Books Recommended for Reading and Reference:

1. Java: A Beginner's Guide (Sixth Edition)-by "Herbert Schildt"
2. Head First Java– by Kathy Sierra
3. Effective Java 2nd Edition- by JOSHUA BLOCH