

# JAVA SYLLABUS



## CORE JAVA

### Introduction

- Programming language Types and Paradigms
- Why Java ?
- Flavors of Java
- Java Designing Goal
- Role of Java Programmer in Industry
- Features of Java Language
- JVM –The heart of Java
- Java's Magic Bytecode
- Language Fundamentals

### The Java Environment:

- Installing Java.
- Java Program Development
- Java Source File Structure
- Compilation
- Executions

### Basic Language Elements:

- Lexical Tokens, Identifiers
- Keywords, Literals, Comments
- Primitive Datatypes, Operators

### Object Oriented Programming

- Class Fundamentals
- Object & Object reference
- Object Life time & Garbage Collection.
- Creating and Operating Objects
- Constructor & initialization code block
- Access Control, Modifiers, methods
- Nested , Inner Class
- Abstract Class & Interfaces
- Defining Methods, Argument Passing Mechanism
- Method Overloading
- Use of Modifiers with Classes & Methods.
- Extending Classes and Inheritance
- Use and Benefits of Inheritance in OOP
- Types of Inheritance in Java

- Inheriting Data Members and Methods
- Role of Constructors in inheritance
- Overriding Super Class Methods.
- Use of “super”.
- Polymorphism in inheritance.
- Type Compatibility and Conversion
- Implementing interfaces.

### **Package**

- Organizing Classes and Interfaces in Packages
- Package as Access Protection
- Defining Package.
- CLASSPATH Setting for Packages.
- Making JAR Files for Library Packages
- Import and Static Import
- Naming Convention For Packages

### **Exception Handling:**

- The Idea behind Exception
- Exceptions & Errors
- Types of Exception
- Control Flow In Exceptions

- JVM reaction to Exceptions
- Use of try, catch, finally, throw, throws in Exception Handling.
- In-built and User Defined Exceptions
- Checked and Un-Checked Exceptions

### **Array & String :**

- Defining an Array
- Initializing & Accessing Array
- Multi –Dimensional Array
- Operation on String
- Mutable & Immutable String
- Using Collection Bases Loop for String
- Tokenizing a String
- Creating Strings using StringBuffer

### **The Collection Framework**

- Collections of Objects
- Collection Types
- Sets
- Sequence
- Map

**We are also providing training on Core & Adv java, Android, Web Designing, Graphics designing, PHP & MySQL training, C & C++ Programing, asp.net & C#.net & Final year project for computer science student.**

For more Detail you can contact us

**Dange Chowk Office:**

**CNC WEB WORLD**

Sr. No. 51/2, Office No. -1,

**Landmark:** Opp. Pandit Petrol Pump,

On Hinjewadi Road

Dange Chowk, Pune 411033

**Mob:** +91 9175371080/81

**E-mail:** [info.cnc@cncwebworld.com](mailto:info.cnc@cncwebworld.com)

**Helpline no.9595119900**

**Swargate Office:**

**CNC WEB WORLD**

2nd Floor, Office No.202, Modi Plaza,

**Landmark:** Opp.Laxmi Narayan Theatre

**Tel No:** 020-41203324

**Mob :** +91 9156991450/51

**E-mail:** [info@cncwebworld.com](mailto:info@cncwebworld.com)

[www.cncwebworld.com](http://www.cncwebworld.com)

