

IT Programming Courses Syllabus



Comprehensive Hands On Training in Programming

A Practical Approach to Learning Modern Programming and IT Skills

About Us

SciFixia is a Pune-based learning hub offering **practical, industry-oriented training in Life Sciences and Information Technology**. We focus on **hands-on, on-job learning** using real data, real tools, and real-world problem solving.

Our certified programs help learners build strong **technical skills, analytical thinking, and industry readiness** through interactive and application-driven training.

At **SciFixia**, we are committed to making quality education accessible and preparing future-ready professionals for today's evolving industries.

Duration - 11th May – 17th July 2026 (2 Month)

Days - Monday - Friday

Timing - 4:30 pm to 5:30 pm

Mode - Online

Why Choose SciFixia?

-  Real-time practical training
-  Hands-on coding experience
-  Industry-relevant IT skills
-  Online expert-led sessions
-  Certification with career-ready skills

Course Details

Core Java Programming (2 Months)

- **Build strong fundamentals of Java programming and object-oriented concepts.**
- **Learn to develop logical programs using loops, conditions, and methods.**
- **Gain practical experience with collections, multithreading, and file handling.**

Course Price: 3000/-

Topic	What You Will Learn
Introduction to Java and JVM	Java platform, JVM, JDK, JRE, basic program structure
Variables, Data Types and Operators	primitive data types, variables, operators
Conditional Statements	if, if-else, switch
Loops	for, while, do-while loops
Arrays and Strings	array creation, traversal, String class basics

Topic	What You Will Learn
Methods	method declaration, parameters, return types
Classes and Objects	class creation, object instantiation
Constructors	default and parameterized constructors
Inheritance	extending classes, method overriding
Polymorphism	method overloading and runtime polymorphism
Abstraction and Interfaces	abstract classes, interfaces
Exception Handling	try, catch, finally, throw, throws
Packages and Access Modifiers	package creation, public, private, protected
Collections Framework	List, Set, Map basics
Multithreading	Thread class, Runnable interface, thread lifecycle
File Handling and I/O	file reading/writing using streams

Outcomes of this Course

- **Strong understanding of Java programming fundamentals and OOP concepts.**
- **Ability to write and execute logical Java programs independently.**
- **Confidence to build small applications using core Java concepts.**