

JAVA

MASTERY PROGRAM

A structured, hands-on Java program that takes learners from core syntax through object-oriented design, collections, and advanced language features — building toward real projects and industry-recognized certification.

Program Curriculum

01 Java Foundations

- Syntax, Variables, Data Types & Type Casting
- Operators, Strings & Math
- Booleans, If...Else & Switch
- Loops, Break/Continue & Arrays

02 Methods & Functions

- Defining Methods & Parameters
- Method Overloading
- Scope & Recursion

03 Object-Oriented Programming

- Classes, Objects & Attributes
- Constructors, this & Modifiers
- Encapsulation, Inheritance & Polymorphism
- Interfaces, Abstraction, Enums & Inner Classes

04 Error Handling & Debugging

- Understanding Errors & Debugging
- Exceptions & Multiple Exceptions
- try-with-resources

05 File Handling & I/O Streams

- Create, Write, Read & Delete Files
- FileInputStream / FileOutputStream
- BufferedReader / BufferedWriter

06 Data Structures & Collections

- Lists, ArrayList & LinkedList
- Sets: HashSet, TreeSet, LinkedHashSet
- Maps: HashMap, TreeMap, LinkedHashMap
- Iterators & Sorting Algorithms

07 Advanced Java

- Wrapper Classes & Generics
- Annotations & Regular Expressions
- Multithreading & Lambda Expressions

08 Real Projects & Certification

- Hands-on Coding Projects
- Practice Problems & Code Challenges
- Java Certification Exam

Who Should Enroll

- ✓ Students & freshers starting their programming journey
- ✓ Career switchers moving into software development
- ✓ Working professionals upskilling in backend development
- ✓ Anyone preparing for Java-based technical interviews

Program Highlights

- ✓ Hands-on Training
- ✓ Expert Mentors
- ✓ Real-World Projects
- ✓ Certification Included
- ✓ Flexible EMI Available