

**CORE COURSE – IV -JAVA PROGRAMMING**

**UNIT I**

Data Types and Variables: The Simple Types - Literals - Variables - Type Conversion and Casting - Automatic Type Promotion in Expressions - Arrays - Strings - Classes and Methods: Class Fundamentals - Declaring Class Objects - Constructors - Garbage Collection - The finalize ( ) Method - Overloading Methods - Argument Passing - Recursion - Understanding Static - Access Control--: The main ( ) method.

**UNIT II .**

Operators: Arithmetic Operators - Bit wise Operators - Relational Operators- Boolean Logical Operators - The Assignment Operator - The? Operator - The Dot Operator - Operator Precedence - Inheritance, Packages, and Interfaces: Inheritance - Using Super - When Constructors are called - Method Overriding - Abstract Classes - The final Keyword - Packages - Importing Packages - Access ControlInterfaces - Keyword Summary.

**UNIT III**

The Language Classes and Interfaces - The Utility Classes and Interfaces - The Input/Output Classes and Interfaces.

**UNIT IV**

The Networking Classcs and Interfaces - The Java Applet Class andInterfaces .

**UNIT V**

The Abstract Window Toolkit Classes and Interfaces - The Event Classes and Interfaces. .

**Book for study:**

"Java - Programmer's Reference", Herbert Schildt with Joe O'Neil, Tata McGraw Hill, 1998.

**Books for reference:**

1. "Internet Programming", Kris Jamcs Ph.D., and Ken Cope, Galgotia Publication, Reprint 2000
2. "Java Unleashed", Michael Morrison, Second Edition.
3. "Complete Reference", 'Patrick Naughton and Herbert Schildt, 3rd Edition, Tata McGraw Hill Publishing Company Ltd., 1999.