ELECTIVE COURSE-II - 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 Control – Interfaces – Keyword Summary.

UNIT III

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

UNIT IV

The Networking Classes and Interfaces – The Java Applet Class and Interfaces

UNIT V

The Abstract Window Toolkit Classes and Interfaces – the Event Classes and Interfaces.

Books for Study:

"Java – Programmer" – Reference". Herbert Schildt with JocO'Neil, Tata McGraw Hill, 1998.

Books for Reference:

1. "Internet Programming", Kris James 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