

YEAR – II	JAVA PROGRAMMING	CS305S
SEMESTER - III		HRS/WK-4
CORE – 5		CREDIT - 3

Objective:

To understand the power of JAVA language in internet programming.

UNIT – I

10 hrs

Fundamentals of Java Language: Introduction to Java – Features of Java – Object Oriented Concepts – Data Types – Variables – Arrays – Operators - Control Statements.

UNIT – II

15 hrs

Inheritance, Polymorphism and Java Modifier: Classes – Objects – Constructors – Overloading method – Access control – Static and fixed methods – Inner classes – Inheritance – Overriding methods – Using super – Abstract class.

UNIT – III

10 hrs

Packages, Interfaces and Exception Handling: Packages – Access Protection – Importing Packages – Interfaces – Exception Handling.

UNIT –IV

10 hrs

Thread,I/O and File Stream: Thread – Synchronization - Runnable Interface – Multithreading - I/O Streams – File Streams .

UNIT – V

15 hrs

String and Util Class : String Objects - String Buffer – Char Array - Java Utilities: Vector class, Random class, Calendar class, Date Class.

Text Books:

1. Cray S. Horstman, Gray Cornell – Core Java 2 Vol. I and Vol. II – 7th Ed. PHI, 2000.
2. H. Schildt – Java2 (The Complete Reference) – Fourth Edition, TMH 1999.
3. Java 2 Platform Unleashed by

Reference Books:

1. Wesley, K. Arnold and J. Gosling – The Java Programme Language Addison.
2. Java How to Program by H.M.Dietel and P.J.Dietel, Pearson Education/PHI, Sixth Edition
3. Beginning in Java 2 by Iver Horton, Wrox Publications

NOTE:

Please refer text book 1 for Question Paper and key preparation.