

SUBJECT CODE : P8CAE5

**ELECTIVE COURSE V – JAVA BASED BUSINESS APPLICATION
(THEORY & PRACTICAL)**

Credit Allotted: 4

Max. Marks: 75

Internal Assessment Theory – 15 Marks; Practical – 10 marks

Univ. Exam. Theory - 45 marks Practical - 30 marks

Theory

Time: 2 hrs

Unit – I

Fundamentals of object oriented programming – Java Evolution – Java Tokens – Constants, Variables and Data types – Operators and Expressions – Branching and Looping Statements – Arrays – Call by Reference and Value.

Unit - II

Classes – Objects and Methods – Define a class – Create a class – Constructors – Function overloading – Inheritance – String Handling and Vectors

Unit – III

Interfaces: Implementing Multiple Inheritance – Packages – Creating and Accessing Packages – Threads – Creation of threads, thread methods – Exceptions – Types of Exceptions – Try, catch, throw, throws statements – Managing Input/Output statements

Practical

Time: 2 hrs.

Unit – IV

Branching and Looping statements – Classes and objects – Arrays – String and Vectors – Interfaces and Packages

Unit – V

Exceptions – Try catch statements – Graphics Programming – Input and Output files – Abstract Window Toolkit (AWT) – Applet

Reference Book:

1. C. Xavier – Programming with Java 2 – SCITECH Publications
2. E. Balagurusamy – Programming with Java – Second Edition
3. John R. Hubbard – Programming with Java – McGraw Hill International Edition