

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
M.Sc. (I.T.) [Five Year Integrated Course]
B.Sc. (Information Technology)
Semester IV

Paper No : 402
Paper Title : Object Oriented Programming

L: 4, T:0, P:0 Hrs

1. Pointers and Self Referential Structures

2. Principles of Object Oriented Programming

Procedure Oriented Programming Vs Object Oriented Programming
Basic Concepts of Object Oriented Programming (Encapsulation, Polymorphism etc.), Benefits of Object Oriented Programming

3. Classes & Objects

4. Constructors & Destructors

5. Operator Overloading, Functional Overloading & Type Conversions

6. Inheritance

7. Dynamic Polymorphism

8. Data Files

Main Readings :

1. Object Oriented Programming with C++: Balaguruswami
2. OOP in Turbo C++: Robert Lafore : Galgotia Publication

Supplementary Readings :

1. C++ Primer :Lippman : Addison Wesley
2. Object Oriented Programming Fundamentals & Applications: Probal Sengupta : PHI
3. The Complete Reference: Schildt: Osborne
4. The C++ Programming Language: Stroustrup : Addison Wesley