PRANVEER SINGH INSTITUTE OF TECHNOLOGY, KANPUR

Session 2023-24

Odd Semester   B. Tech V^th Semester

Object Oriented System Design (KCS-054)

Course Outcome

CO Number	
CO1	Define [L1. Remember] the system development process and insights of object-oriented programming to implement in an application.
CO2	Describe [L2. Understand] the role of OOPs concepts and overall modelling concepts (i.e. System, Structural).
CO3	Use [L3. Apply] UML design patterns and basic concepts of C++ to implement the object-oriented concept.
CO4	Analyze [L4. Analysis] object-oriented approach to implement real world problem.

M. M. 15

Time: 1.5 Hrs.

Section A   (1X3 = 3 Marks)

     CO1

Q1. Attempt all questions:

a)   Define Abstraction and Encapsulation.   CO1

b)   Define information hiding and generosity.   CO1

c)   List OOPs Principles.

Section B   (2X4 = 8 Marks)

     CO1

Q2. Attempt all questions:

a i)   Define Stereotypes of UML with example.   CO1

                         Or

ii)   Describe Tagged values of UML.   CO1

b i)   Define visibility of class attributes and operations.

                         Or   CO1

ii)   Define "IS-A" relationship with example.   CO1

c i)   Define Aggregation and Association.

                         Or   CO1

ii)   List various advantages of object-oriented programming.   CO2

d i)   Explain Polymorphism and Inheritance with its type.

                         Or   CO2

ii)   Explain Class diagram and its purpose.

Section C

     (4X1 = 4 Marks)

Q3

i)   Illustrate various "Things" available in UML.   CO3

                         Or

ii)   Illustrate Object diagram and its purpose. Draw a Object diagram for shopping System.   CO3