

DELHI TECHNICAL CAMPUS GREATER NOIDA



Affiliated to GGSIPU and approved by AICTE & COA

Group Assignment/Mini Project

Instructions:

- This mini project is designed to cover various aspects of Object-Oriented Paradigm.
- Students should work collaboratively in groups (maximum of 4 students), allocate tasks, and present their findings and solutions in a final report or presentation.
- Submit the assignment on or before (Mentioned date).
- Documentation is must
- PPT Presentation is must

Subject: Principle of Programming Languages Subject Code: CIE-320

Class: B.Tech CSE 6th Faculty Name: Dr. Archana Sharma/Ms. Shweta Rai

Date of Issue: 07/03/24 Date of Submission:11/03/24

Mini Project Title: Object Oriented Design for the below mentioned projects:

- 1. Real Time System
- 2. Client Server System
- 3. Object Oriented Database
- 4. Office Automation System
- 5. AI Expert System
- 6. Comparative Study of C++, JAVA, Python, C#
- 7. E-Commerce Systems
- 8. Simulation and Modelling
- 9. Neural Networking and Parallel Programming

Objective: The objective of this mini project is to apply the Object-Oriented Paradigm principles in software development.

Tasks:

Phase 1: Problem Statement (CO2) [L2]

Construct a Problem Statement. Clearly define the abstraction Object, Classes and their association.

Phase 2: Apply the key features of OOP features like polymorphism, Inheritance, Information hiding (CO 2) [L3]

- Design the document including product perspective. Mention the constraints and assumptions required for the project.
- Construct the class diagram
- Brief about the relationship of Classes using Inheritance/information hiding
- . Apply Polymorphism/overloading concepts

Deliverables: Project Report (Softcopy and Hardcopy of Project)