**East West University**

**Department of Computer Science and Engineering**

**CSE 110: Object Oriented Programming**

# **CSE110: Project Description**

## **Objectives**

Objectives of the term project are as follows:

1. Students would practice the programming constructs which were taught and demonstrated in the lab to develop a Java-based application.
2. Students would explore new technology and programming constructs in Java which would be learned by themselves and could successfully apply to develop an application.
3. Students are expected to work in a team environment.
4. Students would deliver the design of the system using class diagrams as if they were in a real software development firm.
5. Students would prepare a professionally-written report on the term project.

## **Scopes of the Project**

Students may choose to develop a Java-based application as their term project from different topics. A few of them have been listed below:

1. *Information System Implementation*
   1. Student Information System
   2. Result Processing System
   3. University Information System
   4. Library Management System
   5. Hotel Management System
   6. Hospital Management System
   7. Vehicle Pool Management System
   8. Payroll Management System
   9. Railway/Bus Reservation System
   10. Inventory Management System
   11. Salary Management System
   12. Car Sales System
   13. Departmental Store Management System and so on
2. *2D Game Development*
   1. Image Puzzle
   2. Snake
   3. Breakout
   4. Tetris
   5. Minesweeper and so on
3. *Tools Development* 
   1. Development of a simple Chat Engine
   2. Development of a simple Word Processor
   3. Development of a simple Paint Application
   4. Development of a simple Media Player and so on

**Marking Rubrics:**

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| *Marking Criteria* | *Points* |
| 1. Appropriate use of Classes and Objects | 2 |
| 1. Use of concepts such as Association, Inheritance, Abstract class, and Interface | 3 |
| 1. Use of Files, Exception handling , Generics | 2 |
| 1. UML diagram | 2 |
| 1. Report Writing | 2 |
| **Total** | **11** |