

**Course Name:** Software Engineering  
**Topic:** System Modeling  
**Instructor:** Dr. Obuhuma James  
**Activity:** Homework Marking Guide (Topic/Week 7)

**Task:**

In reference to the requirements engineering process carried out in the homework for topic/week 5, develop the following system models based on the requirements:

1. Context diagram [10 Marks]
2. DFD level 1 [10 Marks]
3. Use case diagram [10 Marks]
4. Class diagram [10 Marks]

*Marks should be awarded (distributed) based on following aspects per model:*

- a) Alignment to user requirements as outlined in the requirements specification document  
[2 Marks]*
- b) Use of proper model symbols [2 Marks]*
- c) Correctness of the model [3 Marks]*
- d) Demonstration of proper understanding of system modeling [3 Marks]*