

# **CSM 495: INTRODUCTION TO SOFTWARE ENGINEERING**

## **CS 4 2025 PROJECT ASSIGNMENT (WORK IN YOUR PROJECT GROUPS)**

**1. Conceive a project (Probably use your final year project topics)**

**2. Project proposal**

### **Structure of Proposal**

- 1. Introduction**
- 2. Problem statement**
- 3. Aim of project**
- 4. Specific objectives**
- 5. Justification**
- 6. Significance of project**
- 7. Motivation**
- 8. Scope of project**
- 9. Methodology (method, development tools, plan of activities)**
- 10. Project deliverables**

**3 . Requirements document**

### **\* Functional Requirements**

- **Functional User Requirements**
- **Functional System Requirements**
  - ✓ **UML**
    - Use case
    - Activity
    - Sequence

### **\* Non-Functional Requirements**

**4. Project design**

**I. Architectural Design**

**II. Components Design**

- Class Diagram

**III. Database Schemas**

**IV. UI Design**

- Wire frames of the User interface

**5. Provide the Algorithm(s) for your program**

**6. Draw the Flowcharts for your algorithms (Use Lucidchat software or any other flowchat software)**

**F. Twum.**