- 1. Course number and name: CSE702013 Senior Project
- 2. Credit: 2 (Computing topics); Required Contact hours: 2 (Discussion: 2/week)
- 3. Instructor's or course coordinator's name: Dr. Mai Xuan Trang
- 4. Text book: Course readings provided in class
 - a. Required:
 - b. Additional Textbooks (Optional):
- [1] Ian Sommerville, Engineering Software Products: An Introduction to Modern Software Engineering, 2019.
- 5. Specific course information:
 - a. Catalog description of the content of the course:

This course involves in-depth study and application of computing and informatics. Students work in teams to develop a simple product. Requires use of a development process that includes planning, specification, design, implementation, evaluation, and documentation. Students learn how to be a part of a team and how to contribute to the success of their teams' projects.

- b. Prerequisites: CSE703008 (C Programming), CSE702025 (Software Engineering)
- 6. Specific goals for the course:
 - a. Course Learning Outcomes:

Course Learning Outcomes and Relationship to Student Outcomes:

At the end of the course, students will be able to	Student
	Outcome No.
LO.01 – Demonstrate familiarity of specifying the requirements and design	1
the solution of a problem.	
LO.02 – Implement a product prototype by constructing software or applying	2
other techniques appropriate to the project	
LO.03 – Demonstrate familiarity to communicate the details of the technical	3
solution through verbal and written modes.	
LO.04 – Demonstrate familiarity to incorporate professional, legal and	4
ethical issues into the project development and documentation process.	
LO.05 – Demonstrate the ability to work effectively in a project team.	5

b. Related Student Outcomes:

No.	Information Technology / Computer Science graduates must have
1	Analyze a complex computing problem and apply principles of computing and other
	relevant disciplines to identify solutions.
2	Design, implement, and evaluate a computing-based solution to meet a given set of
	computing requirements in the context of the program's discipline.
3	Communicate effectively in a variety of professional contexts.

- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

7. Brief list of topics to be covered:

- Problem Formulation
- Requirements Specification
- Design Realization Validation/Evaluation
- Project Management
- Teamworks
- Constraints
- Ethics and Professional Responsibilities