Teaching Plan

College of Art, Media and Technology

Software Engineering

953232 Object-oriented Analysis and Design

Second Semester, Academic Year 2020

1. Lecturer : Prompong Sugunnasil (701)

2. Learning Style : (/) Lecture (/) Laboratory

( ) Others .....

3. Prerequisites : 953202 and 953231

4. Credit : 3 (2-2-4)

5. Course Objective

Students will be able to

1. Explain the object-oriented analysis and design, requirement modeling, object modeling, behavior modeling, and object design,
2. Use standard tool to design the system using object-oriented paradigm, and
3. Apply the object-oriented analysis and design principle to construct the software based on the requirement.

6. Course Content

Lecture

Week	Content	Hour	Classroom Activities	Instructor
1	Introduction/ Object-oriented concept	2	Lecture	Prompong
2	Object-oriented development process/ Introduction to UML	2	Lecture	Prompong
3	UML: Use case diagram	2	Lecture	Prompong
4	UML: Use case diagram (Cond.)	2	Lecture	Prompong
5	UML: Activity diagram	2	Lecture	Prompong
6	UML: Activity diagram (Cond.)	2	Lecture	Prompong
7	UML: Class diagram	2	Lecture	Prompong
8	UML: Class diagram (Cond.)	2	Lecture	Prompong
9	UML: Class diagram (Cond.)	2	Lecture	Prompong
10	UML: Sequence diagram	2	Lecture	Prompong
11	UML: Sequence diagram (Cond.)	2	Lecture	Prompong
12	Advance topic: UML deficiency	2	Lecture	Prompong
13	Case studies	2	Lecture	Prompong

Week	Content	Hour	Classroom Activities	Instructor
14	Presentation	2	Lecture	Prompong
15	Wrapup	2	Lecture	Prompong

Lab

Week	Content	Hour	Activities	Instructors
1	Introduction	1	Lab	Prompong
2	Object-oriented development process	1	Lab	Prompong
3	Introduction to UML	2	Lab	Prompong
4	UML: Use case diagram	2	Lab	Prompong
5	UML: Use case diagram (Cond.)	2	Lab	Prompong
6	UML: Activity diagram	2	Lab	Prompong
7	UML: Activity diagram (Cond.)	2	Lab	Prompong
8	UML: Class diagram	2	Lab	Prompong
9	Exam Preparation	2	Lab	Prompong
10	UML: Class diagram (Cond.)	2	Lab	Prompong
11	UML: Class diagram (Cond.)	2	Lab	Prompong
12	UML: Sequence diagram	2	Lab	Prompong
13	UML: Sequence diagram (Cond.)	2	Lab	Prompong
14	Advance topic: UML deficiency	2	Lab	Prompong
15	Case studies	2	Lab	Prompong
16	Exam	2	Lab Exam	Prompong

7. Course Requirements

7.1 Lectures (equivalent to 2 learning hours per week)

7.2 Lab Practice (2 hours per week)

7.3 Assignments

7.4 Lab examination

7.5 Midterm and final exams

7.6 Project

8. Grading System

Evaluation Method	Score (Percent)
Laboratory Achievement	10
Laboratory exam	10
Term project	10
Assignment	10
Midterm Examination	30
Final examination	30
Total	**100**

Remark : Please double check the examination date and time with the formal announcement

The semester grade is computed:

(/) Criteria Reference ( ) Group Reference

9. Grade Policy

- Any late submissions for the assignment will either be penalized (score reduction) or NOT be accepted.
- If students must be absent, please notify the lecturer before the date of their absence.
- The student who has percentage attendance less than 80% will NOT allow to FINAL EXAM.
- The student who does not take the final exam will fail this course.

10. Course Text s:

Larman, C. (2004). *Applying UML and Patterns*. Prentice Hall PTR.

Miles, R., Hamilton, K. (2006). *Learning UML 2.0*. Beijing: O'Reilly. ISBN: 0596009828 (pbk.)

11. Project Assignment

- Group of 3-4 students.
- The detailed user requirements will be given to you after the midterm exam.