

204362 – Object-Oriented Design

(การออกแบบเชิงวัตถุ)

Course Syllabus 2/2561

Department of Computer Science

Credit: 3 (3-0-6)

Prerequisite: 204361 or 204363

Lecture: TuF 9.30 – 11.00

Instructors:

Section 001 (CSB209): Dr. Wijak Srisujalertwaja

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Section 002 (CSB210): Asst. Prof. Dr. Areerat Trongratsameethong

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Course Description:

Introduction, object-oriented project life cycle, object-oriented analysis, object-oriented design, object-oriented languages, object-oriented testing, object-oriented computer aided software engineering tools, application in object-oriented.

Tools:

- UML Tools: Edraw Max, SmartDraw, Draw.io

Grading:

Attendance	5%
Quiz	10%
Midterm Exam	30%
Final	25%
Project	30%
Total	100%

Grading Scale:

A, B+, B, C+, C, D+, D, and F

Textbook:

- Simon Bennett, Steve McRobb, and Ray Farmer, “Object-Oriented Systems Analysis and Design Using UML -- 4th Edition”, McGrawHill, 2010.
- Grady Booch, Robert A. Maksimchuk, Michael W. Engle and Bobbi J. Young, “Object-Oriented Analysis and Design with Applications – 3rd Edition”, Addison-Wesley Professional, 2007.

Supplementary readings:

- <http://www.uml.org>
- http://www.icodeguru.com/design/UML-for-Database-Design/0201721635_snode34.html
- <https://realpython.com/python-web-applications/#dynamic-web-app>
- <https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/concepts/object-oriented-programming>

▪ Tentative schedule:

Week	Topics	Number of Hours
0	- Course Syllabus - Midterm Exam Appointment - Assign Project	1.5
1	1) Introduction to Systems Analysis and Design 2) Requirement Captures	3
2	3) Object-Oriented Concept 4) Modelling Concepts	3
3	5) Modelling Concepts 6) The Requirement Work Flow I	3
4	7) The Requirement Work Flow II 8) The Requirement Work Flow III	3
5	9) Use Case Diagram in Detail	3
6	10) Use Case Description I	3
7	วันมาฆบูชา 11) Use Case Description II	1.5
8	Project Progress Report #1	3
Midterm Period: 4-10 March 2019 (4 March 2019, 12.00 - 15.00)		
9 -10	12) Sequence Diagram	6
11	13) Class Diagram	3
12	14) Class: Detailed Design	3
13	15) Object-Oriented Programming 16) Object-Oriented Testing	3
14	วันสงกรานต์ 17) Application in Object-Oriented	1.5
15	Final Project: Submit Report and Present Final Project	3
Final Period: 29 April-15 May 2019 (12 May 2019, 15.30 - 18.30)		