

Software Modeling and Analysis

- SASD vs. OOAD

COURSE SYLLABUS

Spring 2009

BASIC INFORMATION

Instructor: JUNBEOM YOO
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Homepage: <http://dslab.konkuk.ac.kr>
Course Page: <http://dslab.konkuk.ac.kr/Class/2009/09SMA/09SMA.htm>
Class Hours: 15:00 ~ 17:00 (Monday, 602), 13:00 ~ 15:00 (Thursday, 602)

DESCRIPTION

This course introduces two representative approaches for software modeling, analysis, and design, SASD(Structural Analysis and Structural Design) and OOAD(Object-Oriented Analysis and Design) from practical aspect. It is composed of two parts. The former focuses on theory of each one, and the latter performs team projects on the basis of the theories.

COURSE ORGANIZATION

This course is a lecture-lab course in which topics are presented by the instructor, and assigned practices are completed by students during the lab periods. Each group of 3~4 students performs a team project, and presents its progress many times

COURSE OBJECTIVE

1. To introduce the fundamentals of SASD and OOAD.
2. To provide software analysis and modeling experience using CASE tools.

COURSE TOPICS

1. Fundamentals of SASD and OOAD
2. Object Space Process (OSP)

3. Case Studies: Library Management System / Case Studies: Flight Reservation System
4. Team Project: Elevator Controller / Coffee Vending Machine

TEXT

1. Required Text: N/A

GRADING PLAN

1. Practice 40%
2. Team Project 60%

TENTATIVE SCHEDULE

WEEKS	DATE	LABORATORY (Monday)	LECTURE (Thursday)
1	03.02 / 03.05	Course Introduction	Software Process Model OSP Stage 1000 - Plan & Elaboration Case Study - LMS Case Study - FRS
2	03.09 / 03.12	Team Practice #1	
3	03.15 / 03.19	Team Project Presentation #1	OSP Stage 2030 - Analyze Case Study - LMS Case Study - FRS
4	03.23 / 03.26	Team Practice #2	
5	03.30 / 04.02	Team Project Presentation #2	OSP Stage 2040 - Design Case Study - LMS OSP Summary
6	04.06 / 04.09	Team Practice #3	
7	04.13 / 04.16	OOAD Project Presentation	
8	04.20 / 04.23	(Reserved)	
9	04.27 / 04.30	Introduction to SASD Structural Analysis (SA)	Team Practice #4
10	05.04 / 05.07	Team Practice #4	휴강 - 개교기념 일감호 축전
11	05.11 / 05.14	Team Project Presentation #3	Structural Design (SD)
12	05.18 / 05.21	휴강 (31th International Conference on Software Engineering, ICSE 2009) But Team Practice #5 수행	
13	05.25 / 05.28	Team Project Presentation #4	Structural Testing (ST)
14	06.01 / 06.04	Team Practice #6	SASD Summary
15	06.08 / 06.11	SASD Project Presentation	
16	06.15 / 06.18	(Reserved)	