

SWE 530:

Software Design Process

Introduction

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Adapted from slides of Dr. Albert Ali Salah

Basic information

- ❑ Instructor: H. Birkan YILMAZ
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- ❑ Please use prefix of “SWE530” for the emails

Basic information

■ Material:

- ❑ Budgen, **Software Design**, Addison-Wesley, 2003, 2nd Ed.
 - ❑ Bennett, McRobb, Farmer, **Object Oriented Systems Analysis and Design Using UML**, McGraw-Hill, 2010, 4th Edition
 - ❑ J. Deacon, **Object Oriented Analysis and Design**, Addison-Wesley, 2005 (both with many examples and case studies)
 - ❑ Papers/reports on design and software design
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Basic information

■ Grading

- 14 % Quiz (3rd week)
- 36 % Assignments & Presentations (2 or 3)
- 20 % Midterm Exam (6th week)
- 30 % Final Exam

- **A change of +- 5% may occur in the basis of evaluation!**
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Basic information

- Course website: moodle.bogazici.edu.tr
 - If you haven't got a Moodle account, you need to register/apply for it. You will need a bogazici email address.
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Syllabus

- **Before Midterm**
 - **Lecture 01:** Overview of design. What is design in general and in engineering?
 - **Lecture 02:** Software design process & Design in software development process
 - **Lecture 03:** Design qualities (**in-class Quiz**)
 - **Lecture 04:** Describing a Design Solution
 - **Lecture 05:** Transferring Design Knowledge
 - **Lecture 06:** Some Design Representations (**in-class Midterm**)
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Syllabus

- **After Midterm**
 - **Lecture 07:** Design Representations, **Student Presentations 1**
 - **Lecture 08:** Design Representations, **Student Presentations 2**
 - **Lecture 09:** Review
 - **Lecture 10:** Design Patterns, **Student Presentations 3**
 - **Lecture 11:** Design Patterns, **Student Presentations 4**
 - **Lecture 12-a:** Design Practices - Stepwise Refinement
 - **Lecture 12-b:** Design Practices - Incremental Design
 - **Lecture 13:** Design Practices - Structured Systems Analysis and Structured Design
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Questions?
