School of Computer Science

Software Engineering Workshop II: Course Introduction

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Teaching Team

- **Course Coordinator & Teacher**
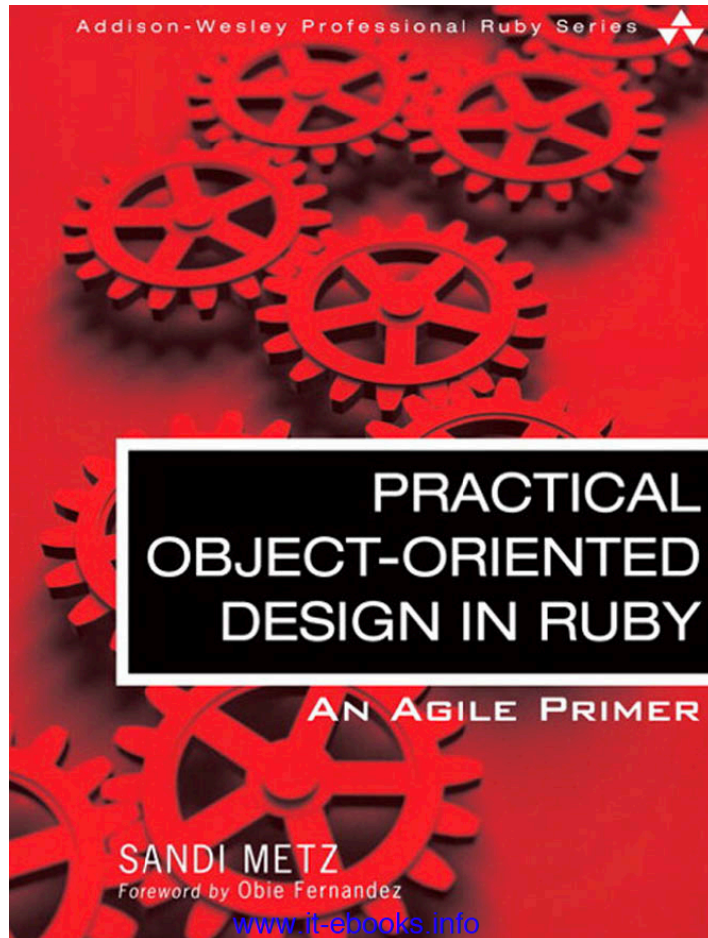 Mansooreh Zahedi

- **Teaching Assistants**
  Lauren Sergi
  Mandar Mulye

Course Objectives

- Argue the importance and role of software design in large-scale software systems.

- Describe different phases, methods and tools of software design.

- Design and reason about software systems using appropriate approaches and tools.

- Recognise and use major software design patterns and frameworks.

- Critically evaluate and reason about key design decisions.

- Select and apply appropriate implementation technologies for a designed software system for building prototypes.

- Effectively work in small groups using physical and online facilities and social media technologies.

Course Book(s)

Course Overview

Course Assessment Components

- Reviewing and discussing assigned article (i.e., Paper Moderation) (10%)

- Article Summary (5%)

- 5 Quizzes (15%) – Individual assessment

- 4 Exercises (20%) – Individual assessment

- Software Design and Prototyping Project (50%) – (Group 30% and individual 20% assessments)

Forming Groups

- Paper Moderation Groups (3 members)

  – Deadline to form groups: Sunday 4th August

- Project Groups (4 members)

  – Deadline to form groups: Sunday 11th August

- The space has been created on Canvas, please form your groups!

Paper Moderation (10%)

- Articles are already uploaded on Canvas.

- Each group will be assigned one article.

- One-page Summary of Paper (individually).

  – Submit before the moderation session starts.

- 30 min Paper Moderation Session, as scheduled.

Article Summary(5%)

- Thoroughly read and make a brief summary of any 5 articles (apart from the article already assigned to their group).
  - Summary should not be less than half a page and more than 1 page.

- Identify 5 questions for discussion and Q&A sessions and actively participate.

- Bring your summary to the paper moderation session for peer-review and discussion. After the session, hand over to the teaching team, with your name and student ID.

Group Projects

- Project Descriptions (2 projects)
  - Project Descriptions same as last semester.

- A Detailed document about Group Project will be released on Canvas, with details of tasks and assessment rubrics.
  - 3 Individual Tasks
  - 4 Group Tasks

Overall Schedule

			Software Engineering Workshop II - 2019 (Tentative Plan - subject to small changes)					
Course Week	**Date (Monday)**	*Lecturer*	**Wednesdays (12:00 - 2:00 pm)/Barr Smith South, 1063**	**Fridays (12:00 - 2:00 pm), Engineering & Math, EM108**	**Paper Moderation**	**Exercises**	**Project**	**Deadlines**
1	29th July	MZ	**L1:** Topic: Introduction to Course & Software Design - Readings: Software Design@Wikipedia https://en.wikipe`dia.org/wiki/Software_design	**Workshop 1:** Refresher on UML Demonstration of the practical use of UML elements Practice of using UML				**Finalize Paper Moderation Teams - Sunday (4th Aug) 23:55**
2	5th August	MZ	**L2:** Software Design: Persona, Design Fiction, & Sketching - Readings: P1 & P2			**Exercise 1: release on 5th August**	Project Work Starts	**Finalize Project Teams - Sunday (11th Aug) 23:55**
3	12th August	MZ	**L3:** Object-Oriented Design Readings: Ch. 1 of Sandi Metz, *(P1: 35 min)* , **Quiz 1**	**Workshop 2:** Software design exercise (in class, verbal feedback), **(P2 : 35 min)**	Paper Moderation (P1, P2)			
4	19th August	MZ	**L4:** Topic: Designing with Responsibility - Readings: Ch. 2 of Sandi Metz, *(P3: 35 min)*		Paper Moderation (P3)			**Exercise 1 - due on Sunday(25th Aug) 23:55**
5	26th August	MZ	**L5:** Topic: Designing Dependencies Readings: Ch. 3 of Sandi Metz, **Quiz 2**, *(P4: 35 min)*	**Workshop 3:** *(P5: 35 min)* ; Software design exercise (in class, verbal feedback)	Paper Moderation (P4, P5)	**Exercise 2: release on 26th August**		**Project Individual Task 1 - due on Sunday (1st Sep) 23:55**
6	2nd Sep	MZ	**L6:** Topic: Design Patterns I Readings: Videos & Patterns book, *(P6: 35 min)*		Paper Moderation (P6)			**Exercise 2 - due on Sunday(8th Sep) 23:55**
7	9th Sep	MZ	**L7:** Topic: Design Patterns II, Readings: Videos & Patterns book, **Quiz 3**, *(P7: 35 min)*	**Workshop 4:** *(P8: 35 min)* , Software design exercise (in class, verbal feedback)	Paper Moderation (P7, P8)	**Exercise 3: release on 9th Sep**		**Project Group Task 1 - due on Sunday (15th Sep) 23:55**
8	16th Sep	MZ	**L8:** Topic: Designing Interfaces Readings: Ch. 4 of Sandi Metz, *(P9: 35 min), (P10: 35 min)*		Paper Moderation (P9, P10)			**Exercise 3 - due on Sunday(22nd Sep) 23:55, Project Individual Task 2 - due on Sunday(22nd Sep) 23:55**
			2 Weeks - School Holidays (23rd Sep - 4th Oct)					
9	7th Oct	MZ	**L9:** Invited Talk, *(P11: 35 min)* , **Quiz 4**	**Workshop 5:** *(P12: 35 min),* Demonstration by guest	Paper Moderation (P11, P12)	**Exercise 4: release on 7th Oct**		**Project Group Task 2 - due on Sunday (13th Oct) 23:55**
10	14th Oct	MZ	**L10:** Topic: Designing Data Models, *(P13: 35 min)* Readings: http://www.agiledata.org/essays/dataModeling101.html		Paper Moderation (P13)			**Exercise 4 - due on Sunday(20th Oct) 23:55**
11	21st Oct	MZ	Project presentations (Group 1-4) **Quiz 5**, Invited Talk	**Workshop 6:** Project presentations (Group 5-9)				**Project individual Task 3 - due on Sunday (27th Oct) 23:55/ Project Group Task 3 (presentations based on assinged time)**
12	28th Oct	MZ	Question/Answer Session					**Project Group Task 4 - due on Sunday (3rd Nov) 23:55**
Paper Moderations (10%)			**Quizzes (15%)**		**Article Summary (5%)**			
Exercises (20%)		**Software Design and Prototyping Project (50%)[Individual assessment: 20%, Group assessment: 30%]**						

Slack Communication Channel

- No Slack anymore!

- Please use Course Forum on MyUni for Posting Questions and Discussions!

Other Information

Late submission policy

- If you hand in an individual assignment late, your mark will be capped, based on how many days late it is.
  - 1 day late – mark capped at 75%
  - 2 days late – mark capped at 50%
  - 3 days late – mark capped at 25%
  - more than 3 days late – no marks available
- No other assessments can be handed in late.

Extensions – 1/2

- You may be granted medical or compassionate extensions for an individual assignment.
  - You must provide supporting evidence, such as medical certificates or counseling service letters.
  - You should also apply for extensions as soon as you are aware that there might be a problem and you must apply for an extension before the report deadline passes!
  - Extension requests should be made to the course coordinator.
  - You will normally only receive an extension equivalent to the number of days covered by your documentation. Don't expect to get an extra week because you lost a day.
- Exceptional circumstances that adversely affect a project group will be dealt with on a case by case basis.

Extensions – 2/2

- Extensions will not be granted for circumstances including minor ailments; travel, employment, family, customary, sport or leisure commitments; problems with balancing workloads; normal exam stress or anxiety.

- If you think your situation is exceptional, contact the course coordinator ASAP, who will then consult the Head of School.

- Students who deliberately submit false or fraudulent documentation may be referred to the Student Misconduct Tribunal.

Academic Honesty – 1/3

- The University has strict policies prohibiting students from presenting other people's work as their own, whether that of students or from outside the University.

- You may not copy code from another student or give another student your code to copy from, unless specifically authorized to do so by the course coordinator.

- You may not copy code from anywhere else, without permission.

Academic Honesty – 2/3

- If caught,
  - first offence – usually receive zero for the assignment
  - second offence - 1 F for the course
  - further offences – 1 F for the course and referral …
- We don't give you assignment work just to keep you busy, we do it to develop your understanding and ability to apply important techniques.
- If you don't do the work yourself, you won't be able to do it in the examination and you won't be able to do it in the work force.

Academic Honesty – 3/3

- Plagiarism
  - Using another person's ideas, designs, words or works without appropriate acknowledgment.

- Collusion
  - Another person assisting in the production of an assessment submission without the express requirement, or consent, or knowledge of the assessor.

1. **Do not submit any work or part thereof which is not yours.**

2. **Do not submit any work for which you have received unfair assistance.**