

Syllabus

CS413 - Software Engineering Project Management

Department of Computer Engineering, Bilkent University

Dr. Mustafa Değerli



Bilkent University

Instructor

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Outcomes & Objectives

- **Students will acquire a comprehensive understanding of management practices for software engineering projects**



Outcomes & Objectives

- **Students will develop an appreciation and understanding of the fundamental concepts in software engineering project management topics**



Outcomes & Objectives

- Students will **be able to explain and discuss project management principles, project performance domains, and software development life cycles**



Outcomes & Objectives

- **Students will learn the tools and techniques to initiate, plan, execute, monitor & control, and close software engineering project work products and relevant processes**



Outcomes & Objectives

- **Students will be able to develop and produce essential project management outputs (project charter and project management plan)**



Recommended Resources

- Project Management Body of Knowledge (PMBOK) - 7th Edition, PMI
- Project Management Body of Knowledge (PMBOK) - 6th Edition, PMI
- Software Engineering, 10th Edition, Ian Sommerville



Recommended Resources

- Strategic Management Concepts & Cases, 15th Edition, David, Fred R., David, Forest R.
- Introduction to Management Science, 13th Edition, Bernard W. Taylor III



Assessment and Evaluation

Item	Weight
Team	40%
Project Charter	10%
Project Management Plan	20%
Group/Team Presentation	10%
Individual	60%
Midterm Exam	20%
Final Exam	30%
Performance	10%



Office Hour

- Available upon request
- Kindly send an e-mail beforehand
- EA-430





Schedule

- **CS 413-1**
- Mon 15:30-17:20 (EB-203)
- Thu 11:30-12:20 (EB-203)
- **CS 413-2**
- Mon 13:30-15:20 (EB-203)
- Thu 09:30-10:20 (EB-203)

FZ

- There will be no FZ grade

Performance Grade

- Trying to experience/learn more
- Asking wise questions
- Showing interest towards the course and topics
- Possessing responsibility, respect, fairness, and honesty



Outline

- Introduction to Software Engineering Project Management
- Software Processes & Software Development Process Models
- Project Management Principles



Outline

- Project Performance Domains
- Agile Project Management
- Strategic & Financial Management



Outline

- Scope Management
- Schedule Management
- Cost Management

Outline

- Project Monitoring and Controlling
- Project Closing
- Verification & Validation, Software Quality Management



Outline

- Software Evolution & Software Requirements Change Management
- Leadership
- Take-away Messages
- Group/Team Presentations



Plagiarism, Copying, and Cheating Policy

- Such unethical attitudes and behaviors are not to be tolerated
- If any form of this occurs, involved people may get 0 (zero) points from the pertinent work(s), cases are reported to relevant bodies, and further disciplinary actions are to be requested



Additional Rules & Notes

- Bilkent's Moodle infrastructure is to be utilized for dissemination and collection
- For each assignment and work, a relevant item is to be opened in Moodle



Additional Rules & Notes

- No late submission is possible for any work
- If you miss any deadline, you won't be able to submit it
- Submissions via e-mail are not accepted



Additional Rules & Notes

- Course materials are to be uploaded to the system
- Students should follow Moodle and check their e-mails regularly



Additional Rules & Notes

- For the project, you are expected to come up with hypothetical project ideas
- You are expected to come up with a “software engineering” project
- You don’t have to develop the software in the context of the course



Additional Rules & Notes

- If you are late to the class or exams by 5 mins or more, you shall not enter the relevant class hour or exam
- The instructor prefers and promotes punctuality



Additional Rules & Notes

- For all group works, the contributions of each member are to be noted in works
- Every member of the group is required to upload the all works before the deadline
- If any one of the members fails to upload, they are to get 0 (zero) from that assignment



Additional Rules & Notes

- Additionally, for each group/teamwork, one printed copy by each group/team is to be submitted to the instructor

Additional Rules & Notes

- Group presentations will be ~20 mins, and each team member must present a part of the work
- For all group/team works, templates provided shall be used



Additional Rules & Notes

- People in the class venue shall raise their hands and shall wait for approval to start speaking if they want to ask or say something
- Principally, the instructor prefers the active participation of all people exclusive of disconcerting the main flow and pace of the classes



Additional Rules & Notes

- Cell phones must be in silent mode during class hours
- If you are definitely required to leave the class with a solid justification, you are expected to do this quietly, without disturbing anyone



Additional Rules & Notes

- Exams are to include open-ended questions only
- No multiple choice or true/false questions

The Bonus

- 5 points to be added to the total points
- Till the end of the term, if you attend a live **symphony orchestra concert**, and upload your **ticked** and a 1-page **reflection** report
- In the report, compare, contrast, and discuss the roles of “the maestro/ conductor” and a project manager



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