Syllabus

CS413 - Software Engineering Project Management

Department of Computer Engineering, Bilkent University

Dr. Mustafa Değerli
CS413

• SOFTWARE ENGINEERING PROJECT MANAGEMENT
• SPRING 2023
Instructor

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Objectives

• A successful software engineering project management ensures the delivery of a quality system on time and within budget. Nonetheless, the management of software development projects is a moderately complex activity. In this context, a software engineering project manager plays an extremely critical role.
Objectives

• The knowledge, skills, tools, and techniques to project activities to meet requirements. Project planning, cost estimation, and scheduling; project management tools, relevant metrics, project controlling techniques, risk management, software contract, teamwork, leadership, communication, and organizational issues are covered.
Recommended Books

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

• Microsoft Project - 2016: Step-by-Step Guide, Microsoft Press
## Assessment and Evaluation

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
<th>Tentative Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team Grading 40% (4 to 5 students of teams)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Charter</td>
<td>10%</td>
<td>5&lt;sup&gt;th&lt;/sup&gt; Week</td>
</tr>
<tr>
<td>Project Management Plan</td>
<td>20%</td>
<td>13&lt;sup&gt;th&lt;/sup&gt; Week</td>
</tr>
<tr>
<td>Project Presentation</td>
<td>10%</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; Week</td>
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<tr>
<td>Individual Grading 60%</td>
<td></td>
<td></td>
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<tr>
<td>Midterm Exam</td>
<td>20%</td>
<td>8&lt;sup&gt;th&lt;/sup&gt; Week</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
<td>TBA</td>
</tr>
<tr>
<td>Performance – (Attendance and In-class Participation)</td>
<td>10%</td>
<td>During the term</td>
</tr>
<tr>
<td>Bonus – An Orchestra Participation and a 1-page Reflection Report on the Role and Performance of the Conductor</td>
<td>10%</td>
<td>During the term</td>
</tr>
</tbody>
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## Scale

<table>
<thead>
<tr>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>A:</td>
<td>91-100</td>
</tr>
<tr>
<td>A-:</td>
<td>87-91</td>
</tr>
<tr>
<td>B+:</td>
<td>83-87</td>
</tr>
<tr>
<td>B:</td>
<td>79-83</td>
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<tr>
<td>B-:</td>
<td>75-79</td>
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<tr>
<td>C+:</td>
<td>70-75</td>
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<tr>
<td>C:</td>
<td>65-70</td>
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<tr>
<td>C-:</td>
<td>60-65</td>
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<tr>
<td>D+:</td>
<td>55-60</td>
</tr>
<tr>
<td>D:</td>
<td>50-55</td>
</tr>
<tr>
<td>F:</td>
<td>0-50</td>
</tr>
</tbody>
</table>
FZ

- Lecture attendance is less than 50%  
- OR Individual assessment is less than 20 points,  
- OR Total achievement from both individual assessment and team assessment is less than 40 points
Outline

- Week-1: Introduction to Software Engineering Project Management
- Week-2: Software Processes & Software Development Process Models
- Week-3: Project Management Principles
- Week-4: Project Performance Domains
- Week-5: Agile Project Management
Outline

• Week-6: Strategic & Financial Management
• Week-7: Scope Management
• Week-8: Schedule Management
• Week-9: Cost Management
• Week-10: Project Monitoring and Controlling
Outline

• Week-11: Project Closing
• Week-12: Verification & Validation, Software Quality Management
• Week-13: Software Evolution & Software Requirements Change Management
• Week-14: Leadership
• Week-15: Project Presentations
Syllabus

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 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.
• No late submission is possible for any work. If you miss any deadline, even by a minute, you won’t be able to submit it. Submissions via e-mail are not accepted.
Additional Notes

- Course materials are to be uploaded to the system after each relevant week.
- Students should follow Moodle and check their e-mails regularly.
- Students should form their groups (4-5 people) by the end of 2nd week. Otherwise, the instructor will randomly assign groups in the 3rd week.
Additional Notes

• For the project, you are expected to come up with hypothetical project ideas and a group name. You are expected to come up with a “software engineering” project. You don’t have to develop software in the context of the course.
Additional Notes

• For the bonus, you may go to an orchestra performance concert, and upload your ticket copy and 1-page reflection report till the end of the term.
Additional Notes

• If you are late to the class by 5 mins or more, you should not enter the relevant class hour. The instructor prefers and promotes punctuality.
Additional Notes

• For each class day, attendance forms are to be collected.

• For all group works, the contributions of each member are to be noted on work. Every member of the group is required to upload the work before the deadline. If any one of the members fails to upload, she/he is to get 0 (zero) from that assignment.
Additional Notes

• Group presentations will be ~10 mins, and each team member has to present a part of the work.

• 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 Notes

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

• Please, do not hesitate to ask questions. This is also part of the learning that we aim for and sustain.
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