

0205702 SOFTWARE ENGINEERING

Normal Education:

 Evening Education:

 Fall 2018-2019

**Course Format:** face-to-face

**INSTRUCTOR INFORMATION**

**Instructor:**

**Title:**

**Office:**

**Phone:**

**Office Hours:**

**E-mail:**

**COURSE DESCRIPTION**

**Credit hours:** *3 credit (3+0)*

**ECTS**: *6*

**Required or elective:** *Required for Computer Engineering Students*

**Catalog Description:** *This course aims to introduce the concepts of Software Engineering and Management of Software Projects. The intensive content of the course presents a broad view of common Software Engineering topics such as process models, project management, software analysis and design, software testing and etc.*

**Prerequisites:** 0205406 Algorithms

**Textbook(s) and/or required materials:**

Kalıpsız Oya, Yazılım Mühendisliği, I.Ü. Yayını
Software Engineering: A Practitioner’s Approach Roger S. Pressman, McGraw-(Textbook) Hill, 2005.
*Software Engineering, Ian Sommerville, Addison-Wesley, 2010.*

**Course Objectives**

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| ***The objectives of this course are to:*** |
| *1* | *To gain information about software engineering concepts* |
| *2* | *To gain information about software engineering standards* |
| *3* | *Creating a project plan* |
| *4* | *Creating and analyzing design models* |
| *5* | *To gain the skills to work within the team* |

**Course Topics**

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| --- | --- |
| ***No*** | ***Course Topics*** |
| *1* | *Introduction; Software Life Cycle* |
| *2* | *Software Development Processes and Teamwork* |
| *3* | *System Architecture and Design* |
| *4* | *Requirements analysis* |
| *5* | *Interface Design* |
| *6* | *Software Implementation* |
| *7* | *Software Testing and Maintenance* |
| *8* | *Midterm* |
| *9* | *Software Testing Overview* |
| *10* | *Software Quality And Standards* |
| *11* | *Project management* |
| *12* | *Project Presentations* |
| *13* | *Project Presentations* |
| *14* | *Final exam* |

**Course Learning Outcomes**

*At the end of this course, students will be able to;*

* *Can develop projects according to software development processes*
* *Know software engineering standards*
* *Know project management*
* *Problem solving, analysis and design modeling skills develop.*

**Evaluation methods**

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| --- | --- |
| *1. Midterm Exam* | *40%* |
| *2. Final Exam* | *60%* |

***Professional component***

|  |  |
| --- | --- |
| *Engineering topics* | *100%* |
| *General education* | *0%* |
| *Mathematics and basic sciences* | *0%* |

**Person(s) who prepared this description and date of preparation**

*Fahrettin Horasan, May 2018*

**Date of last revision**

*May 2018*