

0205106 INTRODUCTİON TO COMPUTER ENGİNEERİNG

Normal Education:

Evening Education:

Güz 2018-2019

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

**INSTRUCTOR INFORMATION**

**Instructor:**

**Title:**

**Office:**

**Phone:**

**Office Hours:**

**E-mail:**

**COURSE DESCRIPTION**

**Credit hours:** *2 credit (2+0)*

**ECTS**: *2*

**Required or elective:** *Required*

***Catalog Description****: An introduction to the design and operation of digital computers, including information representation, logic design, integrated circuits, register transfer description, hardware description languages, basic computer organization and assembly-level programming. The relationship between software and hardware is stressed.*

**Prerequisites:** *None*

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

*Introduction to Computer Engineering: Hardware and Software Design 3rd Edition by T. L. Booth*

**Course Objectives**

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| ***The objectives of this course are to:*** |
| *1* | *Students have knowledge of entry level knowledge in the core areas of computer engineering.* |

**Course Topics**

|  |  |
| --- | --- |
| *No* |  |
| *1* | *Computer engineering education and topics* |
| *2* | *Ethics and Engineering Ethics* |
| *3* | *Computer software*  |
| *4* | *Computer software issues* |
| *5* | *Computer hardware issues* |
| *6* | *Number Systems* |
| *7* | *Boolean Algebra* |
| *8* | *Logic Circuits* |
| *9* | *Midterm Exam* |
| *10* | *Working principles of compilers* |
| *11* | *Introduction to operating systems* |
| *12* | *Operating system architecture, process and memory management* |
| *13* | *Introduction to Computer Networks* |
| *14* | *Introduction to data structures and data models* |

**Course Learning Outcomes**

*At the end of the course, students;*

* *Know the field of Computer Engineering.*
* *He knows engineering ethics and act accordingly.*
* *Know operating systems concepts.*
* *Know basic information about logical circuits.*

**Evaluation methods**

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

***Professional component***

|  |  |
| --- | --- |
| *Engineering topics* | *90%* |
| *General education* | *0%* |
| *Mathematics and basic sciences* | *10%* |

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

*Fatih Varçın, April 2018*

**Date of last revision**

*May 2018*