School of Engineering and Natural Sciences / Industrial Engineering (English)

2022 - 2023 Academic Year

ENGINEERING PROJECT I

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
ENGINEERING PROJECT I	IND4210788	Spring Semester	1+2	2	6

Prerequisites Courses	MATEMATİK II; FİZİK I; FİZİK I LAB; FİZİK II; FİZİK II LAB; AKADEMİK İLETİŞİM BECERİLERİ I; AKADEMİK İLETİŞİM BECERİLERİ II
Recommended Elective Courses	
Language of Instruction	English
Course Level	First Cycle (Bachelor's Degree)
Course Type	Required
Course Coordinator	Assoc.Prof. Melis Almula KARADAYI
Name of Lecturer(s)	Assoc.Prof. Melis Almula KARADAYI
Assistant(s)	
Aim	Mühendislik bitirme projesi mühendislik öğrencilerine öğrenimleri boyunca edindikleri teorik bilginin pratikte çalışan bir sisteme uygulamasını amaçlar.Öğrencilere, program dâhilinde kazandıkları bilgi ve becerileri kullanarak gerçek hayattan alınan bir problemi analiz etmeyi, modellemeyi ve çözmeyi öğrenir. Küçük gruplar halinde çalışacak olan mühendislik öğrencileri iddialı bir mühendislik tasarım projesini tasarlar, yapar, ve sunar.
Course Content	This course contains; Choose a topic for the capstone project.,Literature research and designing of the project.,To form a work-timeline plan.,Obtain preliminary results,Semester reporting and presentation..

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
Through understanding of complete requirements for a given project.	1, 14, 16, 22, 3, 5, 8	B, D
Learning of all steps from the design and implementation of a project.	1, 14, 16, 22, 3, 5, 8	B, D
Throughout the project life-cycle, keeping the awareness about ethical issues.	1, 16, 22, 3, 5, 8	B, D
Developing oral and written communication skills.	1, 14, 16, 22, 3, 5, 8	B, D
Understanding the importance of lifelong learning.	1, 16, 22, 3, 5, 8	B, D
The ability to show perseverance during difficult moment of project execution.	1, 14, 16, 22, 3, 5, 8	B, D
The usage of modern tools and techniques for a given project.	1, 14, 16, 22, 3, 5, 8	B, D

Teaching Methods	1: Lecture, 14: Self-Study, 16: Project Based Learning, 22: -, 3: Discussion, 5: Demonstration, 8: Teamwork
Assessment Methods	B: Oral Exam, D: Project / Design

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	Choose a topic for the capstone project.	Meeting with academic faculty or industry.
2	Literature research and designing of the project.	Literature research.
3	To form a work-timeline plan.	Identiification of the main parts of the project and required time for realization.
4	Obtain preliminary results	Learning the required skills.
5	Semester reporting and presentation.	Technical writing and presentation skills to be acquired.

Evaluation Methods	**Weight(%)**
Midterm Exam	30
General Exam	70

Resources