

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	IND4110788	Fall 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)	Prof.Dr. Hakan TOZAN				
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.	Identification 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					