

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ENGINEERING PROJECT II	EEE4210785	Spring Semester	1+2	2	6
Prerequisites Courses	MÜHENDİSLİK PROJESİ I				
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Prof.Dr. Mehmet Kemal ÖZDEMİR				
Name of Lecturer(s)	Prof.Dr. Mehmet Kemal ÖZDEMİR				
Assistant(s)	Teaching Assistants				
Aim	The Capstone Project gives Engineering students the opportunity to put their education into a practical working system that demonstrates how theory is applied. Engineering students, working in small teams, design, build, and present a challenging engineering design project. Challenging projects are proposed and supported by IMU faculty research groups or by industry. Projects typically involve design and implementation of both hardware and software systems. The projects span a variety of topics in the field of engineering, including for example communication systems, energy generation and conversion systems, electrochemical and biological sensors, image processing systems, control systems and circuits.				
Course Content	This course contains; Getting the hardware pieces,First release of the software component. ,First prototype,Second prototype,Integration of all the components and testing. ,Semester reporting and presentation. .				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. By using different engineering topics, the ability to build a prototype.			14, 17, 2, 21, 6	F	
2. Teorik bilgileri pratik mühendislik tasarımlarında kullanabilme yetisinin gelişmesi.			10, 2, 21	F	
3. The ability to grasp the need for test plans and the ability to test different functions of a developed prototype.			10, 17, 2, 6		
4. The ability to present the work orally, visually, and textual.			10, 14	H	
5. Understanding of project schedule and ability to work under strict deadlines.			10, 14		
Teaching Methods	10: Discussion Method, 14: Self Study Method, 17: Experimental Technique, 2: Project Based Learning Model, 21: Simulation Technique, 6: Experiential Learning				
Assessment Methods	F: Project Task, H: Performance Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Getting the hardware pieces	Comparison of different elements.			
2	First release of the software component.	Test plan for the software testing.			
3	First prototype	System testing document.			
4	Second prototype	Improvements document.			
5	Integration of all the components and testing.	Merging different parts of the project.			
6	Semester reporting and presentation.	Technical writing and presentation skills to be acquired.			
Evaluation Methods			Weight(%)		
Midterm Exam			30		
General Exam			70		

Resources
M. Markel, Writing in the Technical Fields, IEEE Press, 1994.Code of Ethics of Engineers, Accreditation Board for Engineering & Technology (ABET), 1997