School of Engineering and Natural Sciences / Industrial Engineering (English) 2024 - 2025 Academic Year ENGINEERING PROJECT I

Syllabus

Course	Doccrintion							
Course Description Name Code			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					Ţ.	
	ended Elective Courses	PATERIATION, TIZIK I, TIZIK I DAD	, 112IK II, 112IK	II LAD, ANADEMIN IEETIŞIM DEC	ERICLIA I, ARADEMIK	ILL I I GIN DE	CENTERN II	
		English						
Language of Instruction Course Level		First Cycle (Bachelor's Degree)						
Course Type		Required						
Course Type Course Coordinator		Assoc, Prof. Melis Almula KARADAYI						
Name of Lecturer(s)		Assoc.Prof. Melis Almula KARADAYI						
Assistant(s)		Res. Asst. Kübra Çakır						
Aim		The theoretical programming they acquire throughout their studies on engineering projects is the functioning of a system that works in practice. Students learn to divide and solve problems using the knowledge they have gained within the program and a real-life problem analysis they have learned. Working in small groups, electrical energy designs, builds and presents an ambitious electrical design project.						
Course (Content	This course contains; Choose a topic designing of the project - 2.,To form risks.,Determination to success crite project plan.,Doing experiment base repost the result.,Preparation of the	a work-timeline pria of the project. It is a market on the project.	plan.,Risk analysis for the project. ,Semester reporting and presenta oject plan - 2.,Obtaining prelimina	"Development of plan E ation.,Doing experiment ary results.,Evaluation o	for assesse based on p f preliminary	ed repared y data and	
Course I	Learning Outcomes				Teaching Method:		essment ethods	
Lists all requirements for a given project.					10, 11, 14, 2, 3, 5,	9	D, F	
Apply the steps required for project design and realization.				10, 11, 14, 2, 3, 5,	9	D, F		
Consider ethical values when realizing a project.					10, 11, 2, 3, 5, 9		D, F	
Develop oral and written communication skills.					10, 11, 14, 2, 3, 5,	9	D, F	
Use the philosophy of lifelong learning.					10, 11, 2, 3, 5, 9		D, F	
Show perseverance during difficult moment of project execution.					10, 11, 14, 2, 3, 5,	9	D, F	
Use mode	ern tools and techniques for	a given project.	given project.		10, 11, 14, 2, 3, 5,	9	D, F	
Teaching Methods		10: Discussion Method, 11: Demonstration Method, 14: Self Study Method, 2: Project Based Learning Model, 3: Problem Baded Learning Model, 5: Cooperative Learning, 9: Lecture Method						
	ent Methods	D: Oral Exam, F: Project Task						
	Schedule			Т				
Sequenc e	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	Literature search and designing of the project - 2.			Searching the literature.				
4	To form a work-timeline plan.			Identification of the main parts of the project and required time for realization.				
5	Risk analysis for the project.			Detailed literature search.				
6	Development of plan B for assessed risks.			Detailed literature search.				
7	Determination to success criteria of the project.			Detailed literature search.				
8	Semester reporting and presentation.			Technical writing and presentation skills to be acquired.				
9	Doing experiment based on prepared project plan.			Experimental studies.				
10	Doing experiment based on prepared project plan - 2.			Experimental studies.				
11	Obtaining preliminary results.			Learning the required skills.				
12	Evaluation of preliminary data and repost the result.			Learning the required program to prepare the report.				
13	Preparation of the end of the year project presentation.			Going through the provided templates and determine the requirements for good presentation.				
14	Preparation for the end of the year project presentation.			Presentation rehearsal as a team.				
Evaluation Methods			We	Weight(%)				
Midterm Exam			30					
General Exam			70	70				

Resources		
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