

Course Details										
Code						Academic Year			Semester	
EBT402						4			8	
Title						Α	L	ECTS	ECTS	
Project II (Thesis)		0	6	0	10					
Language	German	German								
Level	Undergraduate	X Graduate			Postgra e		duat			
Department / Program	Energy Science and Te	Energy Science and Technology								
Forms of Teaching and Learning	Face-to-face									
Course Type	Compulsory	x		Elective						
Objectives	It aims to equip stud develop solution pro project that will provi it seeks to help stude ability to communicat	It aims to equip students with the ability to analyze the problem/system they are working on and develop solution proposals. The course is designed to enable students to undertake an individual project that will provide them with experience for their future careers after graduation. Additionally, it seeks to help students effectively express their work both orally and in writing, improving their ability to communicate their ideas more clearly.								
Content	The course focuses o with in the light of development of skills	The course focuses on enhancing students' ability to analyze the problem/system they are dealing with in the light of theoretical knowledge and implement their findings. It also includes the development of skills to design practical and applicable solution proposals.								
Prerequisites	(EBT401)	(EBT401)								
Coordinator	Assist. Prof. Dr. Meltem Karaismailoğlu Elibol									
Lecturer(s)	Assist. Prof. Dr. Melte	Assist. Prof. Dr. Meltem Karaismailoğlu Elibol								
Assistant(s)	-									
Work Placement	No									
Recommended or Required Reading										
Books / Lecture Notes	All scientific articles and books related to the field Course Notes									
Other Sources										
Additional Course Material										
Documents										
Assignments	1 Project									
Exams	\$									
Course Composition										
Mathematics und Basic Sciences	%									



Engineering		30	%					
Engineering Design			%					
Social Sciences		%						
Educational Sciences		%						
Natural Sciences		%						
Health Sciences			%					
Expert Knowledge		20	%					
Assessment	Assessment							
Activity		Percentage (%)						
Midterm Exam								
Quiz								
Assignments								
Attendance								
Recitations								
Projects		100						
Final Exam								
		Total	100					
ECTS Points and Wo	rk Load							
Activity	Count	Duration	Work Load (Hours)					
Lectures								
Self-Study	14	126						
Assignments								
Presentation / Seminar Preparation								
Midterm Exam								
Recitations	14	84						

Laboratory						
Projects	7	10	70			
Final Exam						
	200					
		ECTS Points (Total Work Load / Hours)	10			
Learning Outcomes						

1	Identifying and analyzing a problem by examining the current situation
2	Developing applicable proposals and/or solution methods for the identified problem in the light of theoretical knowledge
3	Gaining the ability to apply the developed solution method to the existing problem and evaluate the results
4	Learning to express oneself by reporting and presenting the developed method

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5	Learning	Learning to defend the proposed ideas while presenting the results of the developed work							
Weekly Content									
1	Examinat Developr Manufac Analysis,	Examination of selected topics from application areas of energy science and selection of a project topic (Product Development/R&D, Material and Manufacturing Process Development, Automation, Manufacturing/Manufacturing Planning, Assembly, Maintenance and Repair, Project Planning, Design and Analysis, Testing and Validation, Quality Control, and Quality Management)							
2	Selected topics from application areas of materials science: Product Development/R&D, Material and Manufacturing Process Development, Automation, Manufacturing/Manufacturing Planning, Assembly, Maintenance and Repair, Project Planning, Design and Analysis, Testing and Validation, Quality Control, and Quality Management								
3	Identifica	ation of tools	s necessary t	o achieve the	objective ar	d formulation	of solution alte	ernatives	
4	Identifica	ation of tools	necessary t	o achieve the	objective ar	d formulation	of solution alto	ernatives	
5	Identification of tools necessary to achieve the objective and formulation of solution alternatives								
6	Evaluatio	Evaluation of alternatives and finding solutions using relevant data							
7	Evaluation of alternatives and finding solutions using relevant data								
8	Midterm	Midterm Week							
9	Implementation of the solution (optional)								
10	Implementation of the solution (optional)								
11	Implementation of the solution (optional)								
12	Discussion of the global, economic, social, and environmental impacts of the results and solution								
13	Discussion of the global, economic, social, and environmental impacts of the results and solution								
14	Reporting the work and findings								
15	Presentation of the work and findings								
16	Project								
Contribution of Learning Outcomes to Program Objectives (1-5)									
	P1	P2	P3	P4	P5	P6	P7	P8	P9
1	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5
Contribution	n Level	1: Low 2:	Low-interm	ediate 3: Inte	rmediate 4: I	High 5: Very Hig	ţh		
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=EN&curSunit=5706									
Compiled by	Compiled by: Arş. Gör. Anıl Can Duman								
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