DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY
COURSE SYLLABUS

Course Details								
Code					**Academic Year**			**Semester**
EBT402					4			8
Title					**T**	**A**	**L**	**ECTS**
Project II (Bachelor Thesis)					0	6	0	10
Language	German							
Level	**Undergraduate**	**X**	**Graduate**		**Postgraduate**			
Department / Program	Energy Science and Technology							
Forms of Teaching and Learning	Face-to-face							
Course Type	**Compulsory**	**X**	**Elective**					
Objectives	It aims to equip students with the ability to analyze the problem/system they are working on and develop solutions. It aims to enable students to conduct an individual study that will provide them with experience for their careers after graduation. It aims to help students express themselves more effectively, both orally and in writing, by enabling them to express their own work effectively.							
Content	It addresses the student's ability to analyze the problem/system they are dealing with in the light of theoretical knowledge and put it into practice. It includes the student's ability to design feasible solution proposals.							
Prerequisites	None							
Coordinator	Dr. Meltem KARAİSMAİLOĞLU ELİBOL							
Lecturer(s)	Dr. Meltem KARAİSMAİLOĞLU ELİBOL							
Assistant(s)	None							
Work Placement	None							

Recommended or Required Reading	
Books / Lecture Notes	Lecture notes
Other Sources	None

Additional Course Material	
Documents	
Assignments	1 Project
Exams	

Course Composition		
Mathematics and Basic Sciences	-	%
Engineering	30	%

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY
COURSE SYLLABUS

Engineering Design	-	%
Social Sciences	-	%
Educational Sciences	20	%
Natural Sciences	30	%
Health Sciences	-	%
Expert Knowledge	20	%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	-	-
Quiz	-	-
Assignments	-	-
Attendance	-	-
Recitations	-	-
Projects	1	100
Final Exam	-	-
	Total	**100**

ECTS Points and Work Load

Activity	Count	Duration	Work Load (Hours)
Lectures	14	1	14
Self-Study	14	10	140
Assignments	-	-	-
Presentation / Seminar Preparation	-	-	-
Midterm Exam	-	-	-
Recitations	1	50	50
Laboratory	-	-	-
Projects	1	90	90
Final Exam	-	-	-
		Total Work Load	**294**
		ECTS Points (Total Work Load / Hour)	**10**

Learning Outcomes

1	Analyzing a current situation to identify a problem and conduct its analysis
2	Developing applicable recommendations and/or solution methods for the identified problem in 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
5	Learning to defend the thought put forward while presenting the results of the developed study

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Weekly Content	
1	Examination of selected study topics from the application areas of energy science and selection of project subject (Product Development / R&D, Material and Manufacturing Process Development, Automation, Manufacturing / Production Planning, Assembly, Maintenance-Repair, Project Planning, Design and Analysis, Testing and Verification, Quality Control and Quality Management)
2	Examination of selected study topics from the application areas of energy science and selection of project subject (Product Development / R&D, Material and Manufacturing Process Development, Automation, Manufacturing / Production Planning, Assembly, Maintenance-Repair, Project Planning, Design and Analysis, Testing and Verification, Quality Control and Quality Management)
3	Identification of necessary tools and formulation of solution alternatives to achieve the goal
4	Identification of necessary tools and formulation of solution alternatives to achieve the goal
5	Identification of necessary tools and formulation of solution alternatives to achieve the goal
6	Evaluation of alternatives and finding solutions using relevant data
7	Evaluation of alternatives and finding solutions using relevant data
8	Implementation of the solution (optional)
9	Implementation of the solution (optional)
10	Implementation of the solution (optional)
11	Discussion of the global, economic, social, and environmental impacts of the results and solutions
12	Discussion of the global, economic, social, and environmental impacts of the results and solutions
13	Reporting of the study and findings
14	Presentation of the study and findings
15	Project submission

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 Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

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Date of Compilation:	13.04.2024