

Course Details									
Code					Academic Year			Semester	
EBT402					4		8		
Title	T A L ECTS								
Project II (Bachelor Thesis)					6 10				
Language	German								
Level	Undergraduate X Graduate Pos				Postgr	ostgraduate			
Department / Program	Department of Energy	/ Science a	nd Technolog	у					
Forms of Teaching and Learning	Face to Face								
Course Type	Compulsory X Elective								
Objectives	To provide the student with the ability to analyze the problem/system with which he/she is dealing and to develop solution ideas considering theoretical knowledge. To provide a useful experience through a self study to take the first step to his/her new career which will start after graduation. The student will communicate his/her study efficiently, verbal and written, so he/she will learn to express himself/herself better.				provide a er which tly, verbal				
Content	i. To provide the student with the ability to analyze the problem/system with which he/she is dealing and to develop solution ideas considering theoretical knowledge. ii. To provide a useful experience through a self study to take the first step to his/her new career which will start after graduation. iii. The student will communicate his/her study efficiently, verbal and written, so he/she will learn to express himself/herself better.								
Prerequisites									
Coordinator									
Lecturer(s)									
Assistant(s)									
Work Placement									
Recommended or Required	Reading								
Books / Lecture Notes	Scientific Journals and Books related to the field								
Other Sources	Will be disseminated to the students in digital form								
Additional Course Material									
Documents									
Assignments									
Exams									
Course Composition									
Mathematics und Basic Sciences							%		
Engineering	40%								



COURSE SYLLABUS					
Engineering Desi	ign		40%		
Social Sciences			%		
Educational Scie			%		
Natural Sciences	<b>i</b>		%		
Health Sciences			%		
Expert Knowleds	ge		20%		
Assessment					
	Activity Count			Percentage (%)	
Midterm Exam					
Quiz					
Assignments					
Attendance					
Recitations					
Projects			100		
Final Exam	Final Exam				
		100			
ECTS Points an	d Work Load	i .			
Activity		Count	Duration	Work Load (Hours)	
Lectures		14	4	56	
Self-Study		14	16	224	
Assignments		14	16	224	
Assignments Presentation / S	eminar	14	16 35	224 35	
Assignments Presentation / S Preparation	eminar				
Assignments Presentation / S	eminar				
Assignments Presentation / S Preparation Midterm Exam Recitations	eminar				
Assignments Presentation / S Preparation Midterm Exam	eminar				
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory	eminar				
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects	eminar	1	35	35	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects	eminar	1	35 40	35 40	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects		1	35 40 Total Work Load	35 40 355	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam	omes	1	40 Total Work Load TS Points (Total Work Load / Hours)	35 40 355	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outco	omes Formulate a	1  1  ECT  and analyze a problem by exactle suggestions and/or sections.	40 Total Work Load TS Points (Total Work Load / Hours)	40 355 12	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outco	Formulate a Develop apple knowledge. Gain the ab	1  1  ECT  and analyze a problem by examplicable suggestions and/or s	35  40  Total Work Load  TS Points (Total Work Load / Hours)	40 355 12 It with, considering theoretical	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outco	Formulate a Develop apple knowledge. Gain the aboresults.	1  ECT  and analyze a problem by exact plicable suggestions and/or stillity to implement a solution	40  Total Work Load  TS Points (Total Work Load / Hours)  mining the current status  olution methods for the problem dea  method to an existing problem and w	40 355 12 It with, considering theoretical	
Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outco	Pomes  Formulate a  Develop apple knowledge.  Gain the aboresults.  Learn to exp	1  ECT  and analyze a problem by exact plicable suggestions and/or stillity to implement a solution	40  Total Work Load  TS Points (Total Work Load / Hours)  Imining the current status  olution methods for the problem dea  method to an existing problem and w  rting and presenting the work.	40 355 12 It with, considering theoretical	



6								
7								
8								
9								
10								
11								
12								
Weekly Conten								
1	Selected study topics in the application areas of Energy Science - Product development / R&D - Materials and process development - Automation - Production / production planning - Assembly - Maintenance and overhaul - Project planning - Design and analysis - Test and verification - Quality control and quality management							
2	Selected study topics in the application areas of Energy Science - Product development / R&D - Materials and process development - Automation - Production / production planning - Assembly - Maintenance and overhaul - Project planning - Design and analysis - Test and verification - Quality control and quality management							
3	Designing the instruments/tools etc. to achive the objective / formulating solution alternatives							
4	Designing the instruments/tools etc. to achive the objective / formulating solution alternatives							
5	Designing the instruments/tools etc. to achive the objective / formulating solution alternatives							
6	Evaluate alternatives (use the relevant background data) and choose a solution							
7	Evaluate alternatives (use the relevant background data) and choose a solution							
8	Implementation of the solution (optional)							
9	Implementation of the solution (optional)							
10	Implementation of the solution (optional)							
11	Discussion of the results and implications (global, economic, social, environmental) of your III solution							
12	Discussion of the results and implications (global, economic, social, environmental) of your III solution							
13	Report the study and the findings							
14	Report the study and the findings							
15								
Contribution of Learning Outcomes to Program Objectives (1-5)								
	P1	P2	Р3	P4	P5	P6	P7	P8
1	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5
3	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
6								
7								



Contribution Level	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High			
Compiled by:				
Date of Compilation:				