

DEPARTMENT OF MATERIALS SCIENCE AND TECHNOLOGY
COURSE SYLLABUS

Course Details				
Code	Academic Year			Semester
PRK400	4			8
Title	T	A	L	ECTS
Internship	2	0	0	4
Language	German			
Level	Undergraduate	X	Graduate	Postgraduate
Department / Program	Materials Science and Technology			
Forms of Teaching and Learning	Face to face			
Course Type	Compulsory	X	Elective	
Objectives	Gathering knowledge and experience in the application fields of Material Science.			
Content	Selected study topics in the application areas of Material 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			
Prerequisites				
Coordinator	Asist Prof.Dr. Çağla Söz			
Lecturer(s)				
Assistant(s)				
Work Placement	No			
Recommended or Required Reading				
Books / Lecture Notes				
Other Sources				
Additional Course Material				
Documents				
Assignments				
Exams				
Course Composition				

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Mathematics und Basic Sciences			%
Engineering			30%
Engineering Design			30%
Social Sciences			%
Educational Sciences			%
Natural Sciences			%
Health Sciences			%
Expert Knowledge			40%
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			
Self-Study	8	12	96
Assignments			
Presentation / Seminar Preparation			
Midterm Exam			
Recitations			
Laboratory			
Projects	1	20	20
Final Exam			
		Total Work Load	116
		ECTS Points (Total Work Load / Hours)	4
Learning Outcomes			
1	Gathering experience in the application areas of Material Science		
2	Gathering experience in work flow and work processes		
3	Gathering experience in planning and timing		

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4	Taking responsibility in working environment
5	Getting experience in team work
6	Getting experience about work safety
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12	

Weekly Content

1	Selected study topics in the application areas of Material 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 Material 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	Selected study topics in the application areas of Material 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
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8	Selected study topics in the application areas of Material 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
9	Selected study topics in the application areas of Material 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

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10	Selected study topics in the application areas of Material 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
11	Selected study topics in the application areas of Material 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
12	Selected study topics in the application areas of Material 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
13	
14	
15	

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7
1	5	5	5	5	5	5	5
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

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

Compiled by:

Date of Compilation: