

MODERN WELDING METHODS AND EQUIPMENTS

1	Course Title:	MODERN WELDING METHODS AND EQUIPMENTS	
2	Course Code:	MAK5208	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. Nurettin Yavuz	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Tel: 0 224 294 0651 Mail: nyavuz@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The goals of this course is the scientific principles of welding process and their equipment	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Know and understand existing welding methods.
		2	Understand the metallurgical changes during welding.
		3	Compare welding methods.
		4	Select appropriate welding methods for different materials and shapes.
		5	Select appropriate welding equipment
		6	
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction of Welding		
2	Oxi-Acetylene Gas and Electric Arc Welding		

3	Shielded Metal Arc and Submerged Electric Arc Welding			
4	Shielding Gas Arc Welding			
5	Methods of Electrical Resistance Welding and Other Resource			
6	Welding Quality			
7	Welding Zone			
8	Welding Defects			
9	Welding Defects			
10	Welding of Different Materials			
11	Steel Welding			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	4.00	56.00
Homeworks		1	40.00	40.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exams:		1	0.00	0.00
Others		1	47.00	47.00
Final Exams		1	40.00	40.00
Total Work Load				225.00
Total work load/ 30 hr				7.50
ECTS Credit of the Course				6.00
TERM LEARNING ACTIVITIES		R	PERCENT	
Midterm Exam		0	0.00	
Quiz		0	0.00	
Home work-project		0	0.00	
Final Exam		1	100.00	
Total		1	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		0.00		
Contribution of Final Exam to Success Grade		100.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				

24	ECTS / WORK LOAD TABLE															
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK2	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK3	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK4	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				