

WELDING TECHNOLOGY

1	Course Title:	WELDING TECHNOLOGY
2	Course Code:	ISOS106
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. MURAT ARSLAN
15	Course Lecturers:	Öğr. Gör. Murat Arslan Gemlik Asım Kocabıyık M.Y.O Makine programı 0224 2962242 arslanm@uludag.edu.tr
16	Contact information of the Course Coordinator:	Doç. Dr. Salih Coşkun, Teknik Bilimler MYO İklimlendirme ve Soğutma Teknolojileri Programı GÖRÜKLE/BURSA Tel: 0224 2942353, coskuns@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The objective of this course is to gain competencies for students related to welding and assembling sheets pipes
19	Contribution of the Course to Professional Development:	Thanks to the welding technology course, they will gain the ability to make different types of welding.
20	Learning Outcomes:	
	1	To be able to weld workpieces by using oxy-gas welding
	2	To be able to assemble weld workpieces by using oxy-gas welding
	3	To be able to assemble weld workpieces by using electric arc welding
	4	To be able to assemble weld workpieces by using gas metal arc welding
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Pressure Regulator Adjustment, Spot welding	Pressure Regulation of Oxygen in workshop
2	Wireless Stitch by Using Oxy-Gas Welding	Applications on workpiece with groups of students
3	Stitch by Using Oxy-Gas Welding	Applications on workpiece with groups of students

4	Spot Welding by using Oxy-Gas Welding on Workpieces	Applications on workpiece with groups of students
5	Assembling Sheets by Using Oxy-Gas Welding	Applications on workpiece with groups of students
6	Hot-Bending by Using Oxy-Gas Welding	Applications on workpiece with groups of students
7	Spot Welding by Using Electric Arc Welding Preparation to Pipe Welding Spot Welding to Pipes by Using Electric Arc Welding	Applications on workpiece with groups of students
8	Exam	Applications on workpiece with groups of students
9	Assembling Pipes by Using Electric Arc Welding	Applications on workpiece with groups of students
10	Assembling Sheets MIG/MAG Gas Metal Arc Welding,	Applications on workpiece with groups of students
11	Assembling pipes MIG/MAG Gas Metal Arc Welding	Applications on workpiece with groups of students
12	Assembling Sheets MIG/MAG Gas Metal Arc Welding,	Applications on workpiece with groups of students
13	Assembling Pipes MIG/MAG Gas Metal Arc Welding	Applications on workpiece with groups of students
14	Gas Shielded Tungsten (TIG) Electric Arc Welding	Applications on workpiece with groups of students

22	Textbooks, References and/or Other Materials:	1.Atölye İşlemleri, Ders Notları, Yard. Doç. Dr. Hüseyin BULGURCU, E. ŞİMŞEK 2.Bakır ve Alüminyum Boruları Montaja Hazırlama, Tesisat Teknolojisi ve İklimlendirme, MESEP Ankara, 2007. 3.Uygulamalı Soğutma Tekniği,
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Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self study and preparation		14	1.00	14.00
TERM LEARNING ACTIVITIES		NUMBE	WEIGHT	
Homeworks		1	14.00	14.00
Midterm Exam	1	20.00	0.00	0.00
Field Studies		0	0.00	0.00
Home work-project	1	20.00	1.00	1.00
Midterm exams				
Others		9	2.00	18.00
Total Exams	3	100.00	1.00	1.00
Total Work Load				90.00
Total work load/ 30 hr				3.00
ECTS Credit of the Course				3.00
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.		

24	ECTS / WORK LOAD TABLE
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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	2	4	1	3	1	2	5	0	3	0	0	2	0	0	0	0
ÖK2	2	4	0	4	1	0	5	0	3	0	0	2	0	0	0	0

ÖK3	2	4	0	3	1	0	5	0	3	0	0	2	0	0	0	0
ÖK4	2	4	0	3	1	3	5	0	3	0	0	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			