

Vocational School / Construction Technology
2024 - 2025 Academic Year
WELDING TECHNOLOGY
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
WELDING TECHNOLOGY	İNŞ2176980	Fall Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Serkan BAŞLAYICI				
Name of Lecturer(s)	Assoc.Prof. Mehmet BUĞDAYCI				
Assistant(s)					
Aim	Describe principles of welding technology,Describe weld defect,Define welding types,Define what is going on under heat while welding on welding zone.				
Course Content	This course contains; Introduction and Terminology,Methods of pressure welding,Methods of fusion welding,Methods of arc welding,Welding elektrodeler,Electron beam welding,Welding practice,Welding practice,Gas shielded welding metods,Weldability,Solidification of welding metal,Heat affected zone,Weld defects,Term project.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1)to classify welding types			13, 9	A	
2)to define weld defect			9	A, F	
3)define and choose proper welding type on needed place.			6, 9	A	
			9	A, F	
Teaching Methods	13: Case Study Method, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction and Terminology				
2	Methods of pressure welding				
3	Methods of fusion welding				
4	Methods of arc welding				
5	Welding elektrodeler				
6	Electron beam welding				
7	Welding practice				
8	Welding practice				
9	Gas shielded welding metods				
10	Weldability				
11	Solidification of welding metal				
12	Heat affected zone				
13	Weld defects				
14	Term project				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Lecture notes will be given to studentsPrinciples of Welding Technology Prof. Dr. İ. Barlas Eryürek, L. M. Gourd, Prof. Dr. Adnan Dikicioğlu, Prof. Dr. Oktay Bodur 1996. ISBN: 9789755111421