

Subject card

Subject name and code	Organization of welding works, PG_00055260							
Field of study	Management and Production Engineering							
						0000		
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Institute of Manufactu Technology	rials Technology -> Faculty of Mechanical Engineering and Ship					d Ship	
Name and surname	Subject supervisor		dr hab. inż. Grzegorz Rogalski					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	15.0		0.0	45
	E-learning hours inclu	ıded: 0.0						
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation consultation		Self-study		SUM
	Number of study hours	45		3.0		27.0		75
Subject objectives	The aim of the course is to familiarize students with the organization of welding work in a production plant. The elements that determine the profitability of the enterprise will be presented.							
Learning outcomes	Course outcome Subject outcome Method of verification						rification	
	[K6_U03] is able to communicate using various techniques in the professional environment and other environments, has language skills enabling free communication in the field of technical sciences related thematically to management and production engineering		The student knows the proper nomenclature related to quality management systems and is able to clearly formulate his statements. Uses the technical nomenclature related to the field of study.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U02] has the ability of self- learning and expanding		The student is able to analyze the costs associated with the functioning of the enterprise in the field of welding processes and related elements.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_W08] has basic management knowledge, including process and product quality management, and detailed knowledge of integrated and standardized quality, environmental, health and safety management systems		The student is able to determine the organizational structure of the company with particular emphasis on areas related to welding processes. His knowledge is based on the requirements of subject standards.			[SW2] Assessment of knowledge contained in presentation		
	[K6_K02] is able to interact and work in a group, assuming different roles, can inspire and organize the learning process of others, properly identifies priorities for realization of a task specified by themselves or others		The student is able to solve organizational problems and perform cost calculation in the field of welding processes			[SK3] Assessment of ability to organize work		
Subject contents	As part of the course, students learn about the issues related to the structure of the plant using welding processes, methods of calculating welding costs, the structure of certification costs in the field of welding processes, methods of increasing welding efficiency, health and safety regulations and the principles of selecting additional materials for bonding							

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Prerequisites and co-requisites	Not rquire						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lectrure	56.0%	50.0%				
	Project	56.0%	50.0%				
Recommended reading	Basic literature	56.0% 50.0%					
	Supplementary literature	Edward Dobaj: Maszyny i urządzenia spawalnicze, WNT Wydawnictwa Naukowo-Techniczne, 2014 Matczak W., Gromiec J.: Zasady oceny narażenia spawaczy na dymy i gazy. Instytut Medycyny Pracy w Łodzi 2003 Not require					
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: 1. Explain the structure of welding costs taking into account the available standards 2. What is the preparation and completion time 3. List possible methods of increasing welding efficiency 4. Explain the rules for the selection of welding consumables on the example of austenitic stainless steetype 321 5. Give a typical structure of a production plant using welding processes 6. Present the main hazards of welding work, refer to the relevant regulations						
Work placement	Not applicable						

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