

Subject card

Subject name and code	Organization of welding works, PG_00055260								
Field of study	Management and Production Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
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 Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						l Ship		
Name and surname	Subject supervisor		dr hab. inż. Grzegorz Rogalski						
of lecturer (lecturers)	Teachers					1			
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours inclu			i		-		1	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		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			
	[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			
	[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			
			The student is able to analyze the costs associated with the functioning of the enterprise in the field of welding processes and related elements.			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	[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			
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	Project Paccing criteria	56.0%	50.0%			
	Lectrure	56.0%	50.0%			
Recommended reading	Basic literature	Klimpel A.: Kontrola i zapewnienie jakości w spawalnictwie. Tom 1, Wydawnictwo Politechniki Śląskiej Szymański A. Kontrola i zapewnienie jakości w spawalnictwie. Tom 2, Wydawnictwo Politechniki Śląskiej Czuchryj J., Świergoł S.: Podstawy organizacji kontroli jakości w spawalnictwie, Instytut Spawalnictwa Gliwice, 2003 Pilarczyk J.: Poradnik inżyniera Spawalnictwo Tom 1, Tom 2 Wydanie II, Wydawnictwo: Naukowe PWN, 2017 Tomasz Chmielewski: Projektowanie procesów technologicznych spawalnictwo, Oficyna Wydawnicza Politechniki Warszawskiej, 2013 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				
	Supplementary literature	Not require				
	eResources addresses	rces addresses Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	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 steel type 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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