

Subject card

Subject name and code	Organization of welding works, PG_00055260								
Field of study	Management and Production Engineering								
Date of commencement of studies			Academic year of			2023/2024			
Education level	first-cycle studies		realisation of subject			Oution of subject success			
Education level	inst-typic 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 None			
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								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Grzegorz Rogalski						
	Teachers		dr hab. inż. Grzegorz Rogalski						
		dr inż. Aleksandra Świerczyńska							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM				
	Number of study 45 hours			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_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 knowledge in a specialized field of engineering production		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			
	detailed knowledge of integrated and standardized quality, environmental, health and safety		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			

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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						
Prerequisites and co-requisites	Not rquire						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Lectrure	56.0%	50.0%				
	Project	56.0%	50.0%				
Recommended reading	Basic literature	jakości w spawalnictwie. Tom 1,					
		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	Adresy na platformie eNauczanie:					
		Organizacja prac spawalniczych, W, P, ZIP, Sem.6, Lato 2023/2024 - Moodle ID: 36537 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36537					
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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