

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Welding processes and devices, PG_00055242								
Field of study	Management and Pro	duction Engine	eering						
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	5		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					d Ship			
Name and surname	Subject supervisor	dr hab. inż. G	rzegorz Rogal	ski					
of lecturer (lecturers)	Teachers	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	15.0	0.0		0.0	45	
	E-learning hours inclu			i					
Learning activity and number of study hours	Learning activity	Participation i classes includ plan		Participation consultation			tudy	SUM	
	Number of study hours	45		4.0		26.0		75	
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Recommended reading B	3asic literature	Klimpel A.: Spawanie zgrzewanie i cięcie metali, Wydawnictwo WNT, 2009		
		Walczak W. i inni: Spawalnictwo ćwiczenia laboratoryjne. Wyd. Politechniki Gdańskiej, Gdańsk, 2000		
		Ferenc K.: Spawalnictwo. WNT Warszawa 2007.		
		Ferenc K.: Podręcznik spawania. Zagadnienia ogólne. Agencja Wydawnicza SIMP, 2018		
		Dobaj E.: Maszyny i urządzenia spawalnicze, WNT Wydawnictwa Naukowo-Techniczne, 2014		
		Pilarczyk J.: Poradnik inżyniera Spawalnictwo Tom 1, Tom 2 Wydanie II, Wydawnictwo: Naukowe PWN, 2017		
s	Supplementary literature	Not require		
	eResources addresses	Adresy na platformie eNauczanie:		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 Explain the concept of static characteristics of an arc \ What is electric arc self-regulation Explain the differences between the various bonding processes (welding, fusing, soldering) What do the abbreviations SAW, TIG, MMA mean? What type of device should be selected for plasma cutting of 5 mm thick stainless steel elements? provide the main fundamental variables for the MIG / MAG welding process. What is the distance of the electric contact to the base material and what is its influence on the welding process. Explain the role of shielding gases. 			
Work placement	Not applicable			