

Subject card

Subject name and code	Metallurgy and welding of metals, PG_00038784							
Field of study	Mechatronics, Mechatronics							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study		
						Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			blended-learning		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Materials Engineering and Bonding -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor	dr inż. Aleksandra Świerczyńska						
of lecturer (lecturers)	Teachers		dr inż. Aleksandra Świerczyńska					
			mgr inż. Adrian Wolski					
			mgr inż. Anna Janeczek					
		dr inż. Michał Landowski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours included: 21.0							
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8512 Adresy na platformie eNauczanie:							
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Subject objectives	The aim of the course is to learn basic of welding technologies, casting and metal forming.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_W05		Student distinguishes between methods of producing, processing and welding metals.			[SW1] Assessment of factual knowledge		
	K6_U01		Student is able to independently analyze textbook sources on metal technology and welding.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Casting, Metal forming, Classification of welding processes, Gas welding, MMA welding, Submerged arc welding, TIG welding, MIG / MAG gas shielded welding, Resistance Welding, Thermal cutting							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Laboratory short tests					20.0%		
	Test		56.0%			80.0%		

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Recommended reading	Basic literature	Klimpel A.: Technologia spawania i cięcia metali. WNT. Warszawa 1999.			
		Walczak W. (red.): Spawalnictwo. Ćwiczenia laboratoryjne. Wydawnictwo Politechniki Gdańskiej. Gdańsk, 2000.			
		Dobrzański A.L.:Podstawy nauki o materiałach i materiałoznawstwo. Materiały inżynierskie i podstawy projektowania materiałów. WNT. 2002.			
	Supplementary literature	Pilarczyk J., Pilarczyk J.: Spawanie i napawanie elektryczne metali. Wydawnictwo Śląsk, Katowice 1996.			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Describe the welding method. Descri	ribe the resistance welding method. Describe the soldering method.			
Work placement	Not applicable				

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