

Subject card

	W. I. T. J. J. DO 00040500								
Subject name and code	Welding Technology, PG_00046530								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies			Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Part-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			assessment			
Conducting unit	Department of Ship Manufacturing Technology, Quality Systems and Materials Science -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Aleksandra Świerczyńska						
of lecturer (lecturers)	Teachers		mgr inż. Dariusz Duda						
		dr inż. Aleksandra Świerczyńska							
		dr hab. inż. Dariusz Fydrych							
	Losson type	Lecture	Tutorial	Laboratory	Projec	+	Seminar	SUM	
Lesson types and methods of instruction	Lesson type Number of study	10.0	0.0	20.0	0.0		0.0	30 SOINI	
	hours				0.0				
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in dida classes included in plan			Participation in consultation hours		Self-study		SUM	
	Number of study 30 hours			5.0		40.0 7		75	
Subject objectives	Understanding the basic methods, technologies and equipment for joining and cutting metals, which have practical application in the implementation of steel engineering structures (in particular shipbuilding).								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student has ordered knowledge about welding			[SW1] Assessment of factual knowledge			
	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems	Student can choose the method and welding tools Student knows the processes technological on construction ships			[SU3] Assessment of ability to use knowledge gained from the subject				
Subject contents	Terminology applied in welding. Classification of joints in building of machines. Welded joints. Welding sources of heat, their properties and application. They stood the technology of welding shipping. The principles of assembly and welding of steel hulls. Welding of light alloys constructions in ship building. The defects of welded joints and quality. Technologies of brazing. Technologies of cutting. Technological documentation. Automation and mechanization of welding works. Quality control of welded joints of ship hull. Organization and control of welding processes in shipyards. Safety of welding processes in shipyards.								
Prerequisites and co-requisites	Strength of Materials Metallography Shipbuilding								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria			60.0%		100.0%				
Recommended reading	Basic literature	Poradnik Inżyniera – Spawalnictwo. WNT, 2003 L. M. Gouard: Podstawy technologii spawalniczych. WNT, 1997 A. Klimpel: Spawanie , zgrzewanie i cięcie metali; WNT, 1999 J. Pilarczyk, J. Pilarczyk: Spawanie i napawanie elektryczne. ŚWN, 1983 E. Dobaj: Maszyny i urządzenia spawalnicze. WNT, 1994 K. Ferenc, J. Ferenc: Konstrukcje spawane. WNT, 2000 A. Klimpel: Kontrola i zapewnienie jakości w spawalnictwie. Wyd. PŚ 1997 M. Myśliwiec: Spawalnictwo okrętowe. WM, 1971 N. Gawroniak: Podstawy spawalnictwa. SEP, 2004							

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	Supplementary literature	Normy EN,PN,ISO , Publikacje Towarzystw Klasyfikacyjnych				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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