

Subject card

Subject name and code	, PG_00058715								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering								
Date of commencement of	February 2023				2022/2022				
studies	i colualy 2020		Academic year of realisation of subject			2022/2023			
Education level	second-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	1		Language of instruction			Polish None			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Technologii Materiałów Konstrukcyjnych i Spajania -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology							terials	
Name and surname	Subject supervisor		dr hab. inż. Grzegorz Rogalski						
of lecturer (lecturers)	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 included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes includ		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	45	5.0			50.0		100	
Subject objectives	Familiarize students with advanced bonding and related bonding processes								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U02		Students are able, on the basis of the information obtained, to determine the directions of personal development and education in a given process corresponding to specific requirements			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information			
	K7_W04		Students are able to determine the influence of the fundamental variables of the discussed processes on the properties of the obtained connections.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	K7_U01		On the basis of a given process problem, students are able to obtain information enabling its verification and solution with appropriate conclusions.			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information			
	K7_W05		Students are able to identify the necessary and available tools, techniques and resources to solve specific technological problems.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
Subject contents	K7_K01 Basic concepts and definitions. Clas		Students are able to identify the difficulties resulting from the implemented bonding process. They are able to set directions of activities and priorities in the pursuit of solving specific problems using their own knowledge and experts.						
,555 555	beam welding. Model processes.								

Data wydruku: 10.04.2024 19:23 Strona 1 z 2

Prerequisites and co-requisites	Basic information on bonding processes					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Laboratory	60.0%	40.0%			
	Lecture: Exam / Assessment	60.0%	60.0%			
Recommended reading	Basic literature	Pilarczyk J. (red.): Poradnik inżyniera. Spawalnictwo. tom I. Wydawnictwo Naukowe PWN, Warszawa.Pilarczyk J. (red.): Poradnik inżyniera. Spawalnictwo. tom II. Wydawnictwo Naukowe PWN, Warszawa.				
	Supplementary literature	Klimpel A.: Technologie laserowe. Spawanie, napawanie, stopowanie, obróbka cieplna i cięcie. Wydawnictwo Politechniki Śląskiej, Gliwice.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Describe the essential variables of the selected bonding processDetermine the influence of the fundamental variables of the bonding process on selected features of the joints madeDraw a block diagram between the interactions of the essential variables of the indicated processExplain the relationship between the choice of the bonding process and the degree of complexity of the product					
Work placement	Not applicable					

Data wydruku: 10.04.2024 19:23 Strona 2 z 2