

Subject card

Subject name and code	Materials Science III, PG_00055120								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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			at the university			
Year of study	2		Language of instruction			English			
Semester of study	3		ECTS credits			1.0			
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 of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Krzysztofowicz						
	Teachers	dr inż. Krzysztof Krzysztofowicz							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15	3.0			7.0		25	
Subject objectives	Follow up of Materials Science II								
Learning outcomes	Course out	Subject outcome			Method of verification				
	K6_W08		Students realize that different material's properties must be taken into consideration in accordance with the final object's destination and operation environment.			[SW3] Assessment of knowledge contained in written work and projects			
	K6_U10		Students know how to take different material's properties into consideration in accordance with the final object's destination and operation environment.			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	K6_W03		Students know how dedicated material properties should be checked, what methods and devices should be used.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	 hardenability, stainless steels, thermo-chemical treatment, Cu alloys, Al alloys, bearning alloys. 								
Prerequisites and co-requisites	Knowledge from Materials Science I & II, Fe-Fe3C chart.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	lab reports		51.0%		100.0%				
Recommended reading	Basic literature	"Metaloznawstwo. Materiały do ćwiczeń laboratoryjnych" pod redakcją J. Hucińska, Wydawnictwo Politechniki Gdańskiej							

Data wydruku: 23.04.2024 08:31 Strona 1 z 2

	Supplementary literature	"Podstawy materiałoznawstwa" pod redakcją Marii Głowackiej i Andrzeja Zielińskiego, Wydawnictwo Politechniki Gdańskiej;				
		M. Blicharski "Inżynieria Powierzchni" Wydawnictwo WNT				
	eResources addresses	Adresy na platformie eNauczanie:				
		Materials Science III, L, MiBM, sem.3, zimowy, 2023/24 - Moodle ID: 33263				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33263				
Example issues/ example questions/ tasks being completed	Iron-carbon phase chart					
Work placement	Not applicable					

Data wydruku: 23.04.2024 08:31 Strona 2 z 2