

Subject card

Subject name and code	Materials Science III, PG_00055120								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
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	Subject supervisor		dr inż. Krzysztof Krzysztofowicz						
of lecturer (lecturers)	Teachers								
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 inclu			i		i		-	
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation i consultation h			udy	SUM	
	Number of study hours 15			3.0		7.0 25		25	
Subject objectives	Follow up of Materials	Science II							
Learning outcomes	Course outcome		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					[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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	lab reports		51.0%			100.0%			
Recommended reading	Basic literature	"Metaloznawstwo. Materiały do ćwiczeń laboratoryjnych" pod redakcją J. Hucińska, Wydawnictwo Politechniki Gdańskiej							

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	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:				
Example issues/ example questions/ tasks being completed	Iron-carbon phase chart					
Work placement	Not applicable					

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