

## Subject card

Subject name and code	Materials Science III, PG_00055120							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
Education level			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 -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor		dr inż. Krzysztof Krzysztofowicz					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	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			
Subject objectives	Follow up of Materials	Science II		•				
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	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		
	K6_U10		different material's properties into consideration in accordance with the final object's destination and operation environment.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task		
	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		
Subject contents	<ul> <li>hardenability,</li> <li>stainless steels,</li> <li>thermo-chemical treatment,</li> <li>Cu alloys,</li> <li>Al alloys,</li> <li>bearning alloys.</li> </ul>							
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 redak J. Hucińska, Wydawnictwo Politechniki Gdańskiej					ood redakcją		

Data wygenerowania: 22.04.2025 17:58 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:
Example issues/ example questions/ tasks being completed	Iron-carbon phase chart	
Work placement	Not applicable	

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Data wygenerowania: 22.04.2025 17:58 Strona 2 z 2