

Subject card

Subject name and code	Materials Science III, PG_00040178								
Field of study	Mechanical Engineering, Mechanical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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 PN-EN and ISO standards available in Polish only.			
Semester of study	3		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Materi Technology	g and Bonding -> Faculty of Mechanical Engineering and Ship							
Name and surname	Subject supervisor		dr inż. Krzysztof Krzysztofowicz						
of lecturer (lecturers)	Teachers	dr inż. Krzysztof Krzysztofowicz							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	oject Seminar SUN		SUM	
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study		SUM	
	Number of study 15 hours			3.0		7.0		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		different material's properties into			[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 passin		Passing threshold			Percentage of the final grade			
and criteria	lab reports		51.0%			100.0%			

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Recommended reading	Basic literature	"Metaloznawstwo. Materiały do ćwiczeń laboratoryjnych" pod redakcją J. Hucińska, Wydawnictwo Politechniki Gdańskiej				
	Supplementary literature	"Podstawy materiałoznawstwa" pod redakcją Marii Głowackiej i Andrzeja Zielińskiego, Wydawnictwo Politechniki Gdańskiej;				
		M. Blicharski "Inżynieria Powierzchni" Wydawnictwo WNT				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Iron-carbon phase chart					
Work placement	Not applicable					

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