



Subject card

Subject name and code	Materials Science I, PG_00039296						
Field of study	Medical and Mechanical Engineering, Medical and Mechanical Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2020/2021		
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			blended-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Materials Engineering and Bonding -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Szkodo					
	Teachers	dr hab. inż. Marek Szkodo					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 26.0						
	Materiaoznawstwo I, IM-M, sem. I, stacjonarne - Moodle ID: 10201 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10201						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	30	5.0		40.0		75
Subject objectives	The aim of the course is to familiarize students with the structure of various groups of engineering materials, both at the atomic and microscopic level. Students learn about different types of crystal lattices occurring in metal and ceramic materials, and the defects of these lattices and their influence on macroscopic properties, learn about the types of phases occurring in alloys and learn to read information from the phase equilibrium systems of two-component alloys. They will learn the Fe-Fe ₃ C equilibrium system.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	K6_W04						
	K6_U09						
	K6_U07						
Subject contents							
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
			0.0%		0.0%		
Recommended reading	Basic literature						
	Supplementary literature						
	eResources addresses						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						