

Subject card

Subject name and code	Materials Science II, PG_00039938								
Field of study	Management and Production Engineering, Management and Production 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			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessmer	sment form			assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Agata Lisińska-Czekaj							
	Teachers		Dorota Rogala-Wielgus						
			dr inż. Tomasz Seramak						
		dr hab. Agata Lisińska-Czekaj							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12400 Adresy na platformie eNauczanie: Materiałoznawstwo II - W, ZiIP, 2 sem (M:31804W1) - Moodle ID: 12400								
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12400								
Learning activity and number of study hours	Additional information: Learning activity Participation in classes include				Self-study		SUM		
	Number of study	plan 30		3.0		17.0		50	
	hours		to the formal base of the first of the first		a polostod issues st			<u> </u>	
Subject objectives	The aim of the lecture is to introduce the students with selected issues of the modern materials engineering								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_K01		The student understands the need to improve professional skills.			[SK2] Assessment of progress of work			
	K6_U01		The student is able to use scientific databases through library catalogs.			[SU4] Assessment of ability to use methods and tools			
	K6_W02		The student has knowledge about structure and fundamental properties of structural materials.			[SW1] Assessment of factual knowledge			
Subject contents	Non-ferrous alloys. Aluminum and its alloys. Titanium and its alloys. Copper and its alloys. Zirconium and its alloys. Tool and bearing steels. Corrosion-resistant steels. Thermo-chemical treatment								
Prerequisites and co-requisites		<u> </u>							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Colloquium from the lecture		51.0%			50.0%			
	Laboratory classes	100.0%			50.0%				

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Recommended reading	Basic literature	 Michael Ashby, Hugh Shercliff and David Cebon, Materials Engineering, Science, Processing and Design, Elsevier Ltd, 2007 Michael Ashby, David Jones, Engineering Materials 1, An Introduction to Properties, Applications, and Design, Elsevier Ltd, 2012 Michael Ashby, David Jones, Engineering Materials 2, An Introduction to Microstructures and Processing, Elsevier Ltd, 2013 				
	Supplementary literature	 W. D. Callister, Jr., <i>Materials science and engineering, an introduction</i>, 7th ed., Wiley, 2007, A.J. Moulson, , J.M. Herbert, <i>Electroceramics, Materials Properties and Applications</i>, Chapman and Hall, 1990 R. Pampuch, <i>An Introduction to Ceramics</i>, Springer International Publishing Switzerland, 2014 				
eResources addresses		Materiałoznawstwo II - W, ZiIP, 2 sem (M:31804W1) - Moodle ID: 12400 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12400				
Example issues/ example questions/ tasks being completed	 Non-ferrous metals. Definition of metal alloy and alloying additives. Classification of non-ferrous alloys. Light metals - characteristics of titanium and its alloys. Heavy metals - characteristics of copper and its alloys. 					
Work placement	Not applicable					

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