

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00058882								
Field of study	Mechanical Engineer	ing							
Date of commencement of studies	February 2024		Academic y realisation			2024/	2025		
Education level	second-cycle studies		Subject gro	oup					
Mode of study	Full-time studies		Mode of de	livery		at the	university		
Year of study	2		Language of	of instruction	า	Polish			
Semester of study	3		ECTS cred	its		4.0			
Learning profile	general academic pro	ofile	Assessmer	nt form		asses	sment		
Conducting unit	Zakład Technologii M Technology -> Facult	ateriałów Kons y of Mechanica	I Engineering a	and Ship Techr	nology	Manufa	cturing and M	aterials	
Name and surname	Subject supervisor		dr inż. Aleksa	ndra Świerczyń	iska				
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours inclu	uded: 0.0	•		•		•		
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation i consultation h		Self-st	udy	SUM	
	Number of study hours	45		0.0		0.0		45	
Subject objectives	The aim of the course	e is to familiariz	e students with	n advanced me	thods o	f materi	als testing.		
Learning outcomes	Course out	come	Subj	ect outcome			Method of ver	rification	
	[K7_W06] possesses profound knowledge designing and optimi complex technologic modelling and calcul numerical methods, l modern manufacturin and tools for designin manufacturing proce machines, devices, t and components	necessary for zation of al processes, ations using knows ng methods ng sses of	Student know implementation	research meth s the principle on, the condition id the application ing methods	of ns for		SW1] Assessment of factual mowledge		
	information from specialist literary sources and other sources regarding the construction and operation of machines and related inde		development of modern metal testing methods and is able to independently look for solutions to technical problems.			[SU2] Assessment of ability to analyse information			
	[K7_W11] possesses knowledge useful in understanding ex-tec conditioning connect performing the profe- engineer and taking consideration in engi practice; possesses established knowled range of intellectual p management and or manufacturing proce including the manage cycle of a product	chnical ed with ssion of an it into neering well- ge within the property, ganization of sses,	Recognizes the engineer in sc				Assessment o ied in written i s		

Subject contents Basic concepts in the field of material testing Quality assurance systems in research Testing the mechanical properties of materials Testing of technological properties of materials Testing of technological properties of materials Testing of physical properties of materials Testing of chemical properties of materials Testing of chemical properties of materials Testing of chemical properties of materials Testing of chemical properties of materials Testing of welded joints Methods of testing metallic materials Methods of testing ceramic materials Methods of testing composite materials Methods of testing composite materials
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Methods of testing polymeric materials
Methods of testing polymeric materials
Methods of testing composite materials
Prerequisites
and co-requisites
Assessment methods Subject passing criteria Passing threshold Percentage of the final grade
and criteria Final test 60.0% 70.0%
Project 60.0% 30.0%
Recommended reading Basic literature 1.Kubiński, W. (2016). Wybrane metody badań materiałów. PWN, Warszawa. 2.Łabanowski, J. (2012). Ocena jakości wyrobów hutniczych. Wydaw. Państw. Wyższej Szkoły Zawodowej w Elblągu. 3.Dobrzański, L. (2007). Wprowadzenie do nauki o materiałach. Wydaw. Politechniki Śląskiej, Gliwice. 4.Mirski, Z. (2010). Technologia badanie materiałów inżynierskich. Oficyna Wydawnicza Politechniki Wtrachwarkicji. F. Kulik, J. Okazak Kulik, Kulik, J. (2002). Podzaja włoszacóci
Wrocławskiej. 5.Kulik, J., Olszak Kulik, H. (2003) Badanie własności technologicznych metali. Wydawnictwo Uczelniane Politechniki
Koszalińskiej. Supplementary literature Standards, articles
eResources addresses Adresy na platformie eNauczanie:
Example issues/ List the methods of testing metal/ceramic/polymer/composite materials. example questions/ tasks being completed
Characterize tests on technological properties.
Compare two methods of testing the physical properties of materials.