

Subject card

Subject name and code	Engineering Graphics I, PG_00055216								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
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			English			
Semester of study	1		ECTS credits			5.0			
Learning profile	general academic profile		Assessmer	ssessment form			assessment		
Conducting unit	Department Of Machine Design And Vehicles -> Faculty Of Mechanical Engineering And Ship Technology - > Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jacek Łubiński						
	Teachers		dr hab. inż. Jacek Łubiński						
			mgr inż. Bartosz Bastian						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0 30.0		0.0	45	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study SUM		SUM		
	Number of study hours	45		9.0		71.0		125	
Subject objectives	The aim of the classes is to develop the spacial imagination, recognition of the projection methods, preparation of the working drawings based on the current norms of the technical drawing								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_W07		The student can present elements on the bassis of the parallel projection. The student writes and read the shape of the mechanical construction. Can define the state of the surface, dimentions the machine elements and creates working drawing based on the norms of the technical drawing.			[SW1] Assessment of factual knowledge			
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools		The student can present elements on the bassis of the parallel projection. The student writes and read the shape of the mechanical construction. Can define the state of the surface, dimentions the machine elements and creates working drawing based on the norms of the technical drawing.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			

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Subject contents	The role of the enginnering drawing in the industry,						
	Introduction to preparation of the technical objects.						
	Axonometric and ortographic projection						
	Projections of: points, lines, planes, solids.						
	True size of geometrical elelments						
	Presentation of solids cut by multiple planes,						
	Views and sections of machine elements.						
	Dimentioning, dimention tollerance, fits.						
	Desctiption of surface state.						
	Types of machine drawings.						
	Position of the element on the drawing.						
	Normalisation in technical drawing.						
Prerequisites and co-requisites	Basic knowledge of planar and space	cial geometry, metrology, and mach	ine design.				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Class projects	60.0%	40.0%				
	Final test	60.0%	60.0%				
Recommended reading	Basic literature	Dobrzański T.: Rysunek techniczn 2017.					
		Rigall A., Sadaj J.: Zapis konstrukcji Geometria wykreślna, Wydawnictwo Politechniki Gdańskiej, 2003. Hawk C, Schaum's outline of theory and problems of descriptive geometry,1962					
	Supplementary literature						
		Kurmaz L.W.: Projektowanie węzłów i części maszyn, Wydawnictwo Politechniki Świętokrzyskiej, 2007.					
	eResources addresses	Adresy na platformie eNauczanie: Engineering Graphics I, PG_00055216 - Moodle ID: 26635 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26635					

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Example issues/ example questions/ tasks being completed	Create a working drawing of an element on the pictureDraw a solid cut by multiple planesFill the missing projections of the element
Work placement	Not applicable

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