

Subject card

Subject name and code	Engineering Graphics I, PG_00055216								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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	5.0		
Learning profile	general academic profile		Assessment form			asses	assessment		
Conducting unit	Department Of Machine Design And Vehicles -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						o Technology -		
Name and surname	Subject supervisor		dr hab. inż. Ja						
of lecturer (lecturers)	Teachers								
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	30.0		0.0	45	
	E-learning hours included: 0.0								
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	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			
	or technological task, including the description of the results of this task in Polish or in a foreign language and to present the		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.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
			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			

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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.	on 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 spacial geometry, metrology, and machine design.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Final test	60.0%	60.0%				
	Class projects	60.0%	40.0%				
Recommended reading	Basic literature Dobrzański T.: Rysunek techniczny i maszynowy. WNT, Warsza 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.	w i części maszym, wydawnictwo				
		r oliteciiliki Swiętokizyskiej, 2007.					
	eResources addresses						
Example issues/ example questions/ tasks being completed	eResources addresses Create a working drawing of an eleprojections of the element	Adresy na platformie eNauczanie:	y multiple planesFill the missing				

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Work placement	Not applicable

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