

Subject card

Subject name and code	Engineering Graphics I, PG_00055216							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025		
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		Assessment form			assessment		
Conducting unit	Department of Machine Design and Vehicles -> Faculty of Mechanical Engineering and Ship Technolog					Technology		
Name and surname	Subject supervisor		dr hab. inż. Jacek Łubiński					
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 classes include plan			Self-study		SUM	
	Number of study hours	45		9.0		71.0		125
Subject objectives	The aim of the classe preparation of the wor							thods,
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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	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 spacial geometry, metrology, and machine 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 techniczny i maszynowy. WNT, Warszaw, 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					
		Wydawnictwo Politechniki Gdańskie Hawk C, Schaum's outline of theory	j, 2003.				
	Supplementary literature	Wydawnictwo Politechniki Gdańskie Hawk C, Schaum's outline of theory	ej, 2003.				
	Supplementary literature	Wydawnictwo Politechniki Gdańskie Hawk C, Schaum's outline of theory	ej, 2003.				
		Wydawnictwo Politechniki Gdańskie Hawk C, Schaum's outline of theory geometry,1962 Kurmaz L.W.: Projektowanie węzłó Politechniki Świętokrzyskiej, 2007.	ej, 2003.				
Example issues/ example questions/ tasks being completed	eResources addresses	Wydawnictwo Politechniki Gdańskie Hawk C, Schaum's outline of theory geometry,1962 Kurmaz L.W.: Projektowanie węzłó	e and problems of descriptive				

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Work placement	Not applicable

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