

Subject card

Subject name and code	Descriptive Geometry, PG_00058978								
Field of study	Environmental 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			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Mechanics Of Materials And Structures -> Faculty Of Civil And Environmental Engineerir Wydziały Politechniki Gdańskiej						al Engineering ->		
Name and surname	Subject supervisor		dr inż. Anna Sobieraj-Żłobińska						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM	
of instruction	Number of study hours	0.0	15.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15	3.0		32.0		50		
Subject objectives	Preparation for recording engineering structures in a technical drawing, projection principles. Presentation of basic constructions in geometric projections (Monge projection, topographic projection). Getting knowledge how to use geometry to solve basic engineering problems.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W15] knows the rules of descriptive geometry and technical drawing regarding the recording and reading of architectural drawings, construction and surveying drawings, as well as their preparation with the use of CAD		knows the basics of the topographic and Monge projection			[SW1] Assessment of factual knowledge			
	[K6_U07] can read architectural, construction and geodesy drawings, and can use the known computer programs to prepare a drawing part of technical documentation for the sanitary industry		can read construction drawings, can apply the basics of the topographic and Monge projection			[SU1] Assessment of task fulfilment			
Subject contents	Topographic projection. Lines and planes in topographic projection. Spacial relations and common elements. Design of slopes, embankments and excavations for squares and roads. Monge projection. Location of a point, line and plane in space. Mutual position of lines and planes. Common elements (intersection line). Basic constructions. Transformation and its applications. Projection of polyhedra. Intersection of polyhedrons with a straight line or a plane.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	ocena kolokwium		60.0%			50.0%			
	ocena rozwiązania ćwiczeń		60.0%			50.0%			

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Recommended reading	Basic literature	 Otto F., Otto E.: Podręcznik geometrii wykreślnej, PWN Warszawa, 1998 (i inne wydania). Bieliński A.: Geometria wykreślna, Oficyna Wydawnicza Politechniki Warszawskiej, 2005. Grochowski B.: Elementy geometrii wykreślnej, PWN Warszawa, 2002. Jankowski W.: Geometria Wykreślna, Wydawnictwo Politechniki Poznańskiej, 1999. Bieliński A.: Ćwiczenia z geometrii wykreślnej, Oficyna Wydawnicza Politechniki Warszawskiej, 2002. Błach A.: Inżynierska geometria wykreślna. Podstawy i zastosowania, Wydawnictwo Politechniki Śląskiej, Gliwice 2006. 			
	Supplementary literature	 Kotarska-Lewandowska B.: Geometria wykreślna. Zadania testowe, skrypt elektroniczny dostępny na stronie http://www.pbc.gda.pl/, Gdańsk, 2011. Wróblewska D.: Rzut Cechowany. Odwzorowania Inżynierskie, skrypt elektroniczny dostępny na stronie http://www.pbc.gda.pl/, Gdańsk, 2014. 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Slopes of excavations and embankments along the road.				
Work placement	Not applicable				

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