

## Subject card

Subject name and code	Descriptive geometry, PG_00061783								
Field of study	Geodesy and Cartography								
Date of commencement of									
studies			Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-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	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Bożena Kotarska-Lewandowska								
of lecturer (lecturers)	Teachers		dr inż. Angela Andrzejewska-Sroka						
			dr inż. Karol Daszkiewicz						
			dr inż. Bożena	wandow	ska				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	10.0	0.0	5.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		25.0		60	
Subject objectives	The aim of the course is to equip the student in: - knowledge of orthogonal, topographic and perspective projections; - skills of solving spatial problems in engineering practice.								
Learning outcomes	Course outcome Subject outcome				Method of verification				
G	[K6_U02] can make basic geodetic drawings and read an architectural technical drawing		The student can make basic geodetic drawings and read technical architectural drawings.			[SU1] Assessment of task fulfilment			
	understands the concepts of engineering graphics needed to work with CAD (Computer Aided Design) software in accordance with the standards and principles of geodesy, construction and IT including computer network technologies, databases and programming as well as surveying software		Student potrafi zapisać obiekty trójwymiarowe w poznanych typach rzutowania oraz potrafi rozwiązać problemy przestrzenne w praktyce inżynierskiej.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents  Prerequisites and co-requisites	Orthographic projection, planes of reference. Invariants of parallel projections. Representation of geometric elements in the Monge projection, transformation, auxiliary views. Belonging and parallelism of points, lines and planes. Determination of common elements: piercing points, edges between planes. Operating on polyhedrons: piercing points, intersection lines. Topographic projection. Representation of points, lines and planes. Basic constructions: belonging and parallelism of geometric elements, intersection of elements. Edge and normal view of a plane. Topographic surfaces. Determination of embankment and cut planes along roads and squares. Basic rules of perspective projection, one-point perspective.  No requirements.								

Data wygenerowania: 22.11.2024 01:15 Strona 1 z 2

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	drawing exercises	60.0%	50.0%			
	test	60.0%	50.0%			
Recommended reading	Basic literature	Bieliński A.: <i>Geometria wykreślna</i> , Oficyna Wydawnicza Politechniki Warszawskiej, 2005				
		Grochowski B.: Elementy geometrii wykreślnej, PWN Warszawa, 2002				
		Jankowski W.: Geometria Wykreślna, Wydawnictwo Politechniki Poznańskiej, 1999				
		Otto F., Otto E.: <i>Podręcznik geometrii wykreślnej</i> , PWN Warszawa, 1998 (i inne wydania)				
	Supplementary literature	Bieliński A.: <i>Ćwiczenia z geometrii wykreślnej</i> , Oficyna Wydawnicza Politechniki Warszawskiej, 2002				
		Błach A., <i>Inżynierska geometria wykreślna. Podstawy i zastosowania.</i> Wydawnictwo Politechniki Śląskiej, Gliwice 2006				
	eResources addresses	Adresy na platformie eNauczanie: Geometria Wykreślna, 1 sem. GiK i https://enauczanie.pg.edu.pl/moodl				
Example issues/ example questions/ tasks being completed	Determination of embankment and cut planes along roads.					
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 22.11.2024 01:15 Strona 2 z 2