

Subject card

Subject name and code	Descriptive geometry, PG_00061783								
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Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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. Dawid Bruski						
			dr inż. Bożena	wandow	ska				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study	15.0	10.0	0.0	5.0		0.0	30	
	hours	Ided: 0.0							
Learning activity and number of study hours	E-learning hours included: 0.0 Learning activity Participation in didactic Participation in Self-study SUM								
	Learning activity	classes includ				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 out	Subject outcome			Method of verification				
	understands the concepts of projection with elevations, Monge's and middle (perspective), has basic knowledge and 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			dent potrafi zapisać obiekty vymiarowe w poznanych ach rzutowania oraz potrafi viązać problemy przestrzenne raktyce inżynierskiej.			[SW3] Assessment of knowledge contained in written work and projects		
	[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			
Subject contents	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.								
Prerequisites and co-requisites	No requirements.								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test	60.0%	50.0%			
	drawing exercises	60.0%	50.0%			
Recommended reading	Basic literature	Bieliński A.: <i>Geometria wykreślna</i> , Oficyna Wydawnicza Politechniki Warszawskiej, 2005				
		Grochowski B.: <i>Elementy geometrii wykreślnej</i> , 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	Uzupełniające Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Determination of embankment and cut planes along roads.					
Work placement	Not applicable					

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