

Subject card

Subject name and code	Technical drawing and CAD systems, PG_00061784								
Field of study	Geodesy and Cartography								
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			
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			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers		mgr inż. Kamil Łapiński						
			dr inż. arch. Dominika Wróblewska						
			dr inż. Karol Daliga						
			dr inż. Tadeusz Widerski						
			at the radius vitation						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	10.0	5.0 30.0 15.0			0.0	60		
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes include plan				Self-study		SUM		
	Number of study hours	60		5.0	0			125	
Subject objectives	 To familiarize students with the principles of technical drawing Acquiring the ability to read and create geodetic sketches Acquiring skills in using AutoCAD software in the field of surveying works Acquiring skills in using C-Geo software 								
Learning outcomes	Course out	come	Subject outcome				Method of verification		
	[K6_U02] can make basic geodetic drawings and read an architectural technical drawing		Student is able to make basic drawings and geodetic sketches by hand and using computer technology, as well as read an architectural technical drawing.			[SU1] Assessment of task fulfilment			
	[K6_W04] has knowledge and 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			Student has knowledge and understands the concepts of engineering graphics needed to work with CAD (Computer Aided Design) software and surveying software, in accordance with the standards and principles applicable in surveying.			[SW1] Assessment of factual knowledge		

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Subject contents	 Standardized elements of technical drawing Geodetic symbols used on maps Geodetic drawings Basic cartographic studies Mapping the topography of the area Architectural and construction drawings, sketches for architectural inventory Basics of computer-aided design. CAD systems (Computer Aided Design) AutoCAD - Preparing work environment AutoCAD - Drawing and editing basic flat figures, working on layers AutoCAD - Dimensioning of drawings and preparing them for printing C-Geo - Principles of working in the program C-Geo - Calculations and preparation of graphic materials C-Geo - Data preparation and planning of surveying works 						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Field classes	60.0%	0.0%				
	Assessment of the use of C-Geo	60.0%	35.0%				
	Lecture content test	60.0%	15.0%				
	Assessment of the use of AutoCAD	60.0%	35.0%				
	Individual work	50.0%	15.0%				
Recommended reading	Basic literature	 Rozporządzenie Ministra Rozwoju, Pracy i Technologii z dnia 23lipca 2021 r. w sprawie bazy danych obiektów topograficznychoraz mapy zasadniczej (Dz.U. 2021 poz. 1385) Rozporządzenie Ministra Administracji i Cyfryzacji z dnia 2 listopada 2015 r. w sprawie bazy danych obiektów topograficznych oraz mapy zasadniczej (Dz.U. 2015 poz. 2028) (pomocniczo) Instrukcja Geodezyjna Mapa zasadnicza K-1 wydanie III (pomocniczo) Jagielski Andrzej Rysunki Geodezyjne z elementami topografii i kartografii, Wydawnictwo GEODPIS, 2008. 					
	Supplementary literature	 Maciaszek, R. Gawałkiewicz J. Podstawy grafiki inżynierskiej dla studentów geodezji i inżynierii środowiska, 2007. Normy z zakresu Rysunek techniczny zagadnienia ogólne i rysunek techniczny budowlany i konstrukcyjny. Instrukcja obsługi omawianego programu AutoCAD 					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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