

Subject card

Subject name and code	Engineering Drawing, PG_00058741									
Field of study	Environmental 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				
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			1.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering						Engineering			
Name and surname	Subject supervisor	dr inż. Paweł								
of lecturer (lecturers)	Teachers									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
	Number of study hours	0.0	0.0	0.0	15.0		0.0	15		
	E-learning hours included: 0.0									
Learning activity and number of study hours	Learning activity	activity Participation in classes includ plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	15		5.0		8.0		28		
Subject objectives	To teach students the principles of preparing and reading a technical drawing using a variety of techniques and tools.									
Learning outcomes	Course out	Subject outcome			Method of verification					
	[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		Student can read basic technical information from a drawing. Can produce basic drawings: view, section, detail for branch technical documentation.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment				
	[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		The student knows the principles of preparing and reading technical drawings. He is able to apply appropriate types and thicknesses of lines, dimension constructions, knows symbols and designations of constructional elements and materials grading. The student is able to prepare a sheet for creating a drawing in AutoCAD using layers. Uses basic tools for editing, dimensioning and printing drawings in AutoCAD.			[SW1] Assessment of factual knowledge				
Subject contents	 The basic concepts and principles for preparing technical drawings. Technical writing. Types and thickness of lines used in technical drawings. Rectangular and axonometric projections. Views, sections, layouts, details. Principles of dimensioning on technical drawings. Markings and stencils used on technical drawings. Technical drawings in Autodesk AutoCad 2022. Technical drawing of sanitary installations. 									

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Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Theoretical part test	60.0%	30.0%		
	AutoCAD technical drawing	60.0%	30.0%		
	Manual technical drawing	60.0%	40.0%		
Recommended reading	Basic literature	 Burcan J., <i>Podstawy rysunku technicznego</i>, Wydawnictwo Naukowe PWN, Warszawa, 2016. Miśniakiewicz E., Skowroński W., <i>Rysunek techniczny budowlany</i>, Arkady, Warszawa, 2008. Januszewski B., Rysunek techniczny w projektowaniu instalacji sanitarnych. Oficyna Wydawnicza Politechniki Rzeszowskiej, 2001 			
	Supplementary literature	 Popek M., Wapińska W., Rysunek zawodowy. Instalacje sanitarn WSiP, 2009 Romanowicz P., Rysunek techniczny budowlany z wykorzystanie narzędzi budowlanych. Wydawnictwo Naukowe PWN, Warszawa 2021. 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	 Produce a complete technical drawing with dimensioning and descriptions of the indicated structural element. Produce a drawing of the sanitary installation in a single-family building in AutoCAD. 				
Work placement	Not applicable				

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