



Subject card

Subject name and code	Engineering graphics in transportation, PG_00064270						
Field of study	Grafika inżynierska w transporcie						
Date of commencement of studies	October 2024		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	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Lucyna Gumińska				
	Teachers		mgr inż. Anna Gobis				
			mgr inż. Konrad Biszko				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=2443 Moodle ID: 2443 Grafika inżynierska w transporcie rok 2025/2026 https://enauczanie.pg.edu.pl/2025/course/view.php?id=2443						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	The aim of the course is to equip students with the skills to use computer-aided design (CAD) tools for creating, editing, and interpreting engineering drawings in the field of transportation.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W03] has knowledge of informatics, electronics, telecommunications, automation and control, information technologies, computer graphics, geodesy and satellite navigation which is useful for understanding how it can be applied in transport		Basic knowledge of using CAD software in the field of transportation.		[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym		
	[K6_U05] able to use IT graphic techniques suitable for tasks typical of designing, construction, operation, and diagnosing means and transportation systems.		Ability to independently create and interpret technical drawings and local spatial development plans.		[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania [SU2] Ocena umiejętności analizy informacji [SU1] Ocena realizacji zadania [SU4] Ocena umiejętności korzystania z metod i narzędzi		

Subject contents	Course content – laboratory 1. Review of basic AutoCAD functions; practical revision exercises. 2. Fundamentals of transport planning; examples of using graphical visualization techniques for planning purposes in road engineering. 3. Maps and their characteristics; importing and calibrating base maps; managing drawing, text, and annotation scales for printing. 4. Land use symbols in road surroundings (linear, point, and area elements); creating legends and block definitions. 5. Preparation of a Local Spatial Development Plan (MPZP) map according to a given topic; print setup at a specified scale Project 1 . 6. Development of pedestrian isochrone maps showing walking access to public transport stops, using publicly available map data Project 2 .		
Prerequisites and co-requisites	Basic proficiency in AutoCAD		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The grade for the subject depends on the total number of points earned, which consists of two completed projects	60.0%	100.0%
Recommended reading	Basic literature	The Hitchhiker's Guide to AutoCAD Basics A. Pikoń - AutoCAD 2024 PL. Pierwsze kroki, Wydawnictwo Naukowe Helion, 2023	
	Supplementary literature	Nighat Yasmin - Introduction to AutoCAD 2026 for Civil Engineering Applications Learning to use AutoCAD for Civil Engineering Projects	
	eResources addresses	Basic https://help.autodesk.com/view/ACD/2025/ENU/?guid=GUID-2AA12FC5-FBB2-4ABE-9024-90D41FEB1AC3 - The Hitchhiker's Guide to AutoCAD Basics	
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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