



Subject card

Subject name and code		Technical drawing and urban planning drawing, PG_00067999						
Field of study		Spatial Development						
Date of commencement of studies		October 2025	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		1	Language of instruction			Polish		
Semester of study		1	ECTS credits			2.0		
Learning profile		general academic profile	Assessment form			assessment		
Conducting unit		Department Of Visual Arts -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)		Subject supervisor		dr inż. arch. Małgorzata Rogińska-Niestuchowska				
		Teachers		dr inż. arch. Małgorzata Rogińska-Niestuchowska mgr inż. arch. Joanna Kowalewska				
Lesson types and methods of instruction		Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
		Number of study hours	0.0	15.0	15.0	0.0	0.0	30
		E-learning hours included: 0.0						
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	2.0		18.0		50
Subject objectives		Transfer of knowledge as well as education and development of skills related to methods of preparing and reading technical and planning drawings used in spatial management						
Learning outcomes		Course outcome		Subject outcome		Method of verification		
		[K6_W03] has knowledge in the field of mathematics and physics relating to issues related to space management, including the basic mathematical methods used in urban design, as well as analytical and design methods using information technology used in planning processes of settlement structures		has knowledge of basic mathematical methods used in urban design		[SW1] Assessment of factual knowledge		
		[K6_U07] evaluates the usefulness of standard methods and tools used in planning and management of spatial development and is able to select and apply the most appropriate ones		assesses the usefulness of standard methods and tools used in the process of planning and managing spatial development and is able to select and apply the most appropriate ones		[SU4] Assessment of ability to use methods and tools		
		[K6_U02] has the ability to abstractly understand technical problems; applies basic mathematical and simulation methods in urban design and spatial planning; uses information and communication techniques used in planning practice to present studies and design solutions related to spatial management and to conduct social discussions		To develop freehand drawing skills to represent the space in a flat drawing. Acquiring the ability to use an axonometric and constructional drawing. The use of graphic computer programs to create models and flat representations of three-dimensional spatial systems. Practical skills in creating and editing vector graphics and raster images.		[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>Preparation of technical and planning drawings: Projections of the object on three viewports, axonometric sketches based on projections. Markings in the architectural and construction, urban and planning drawings. 3D visualizations (digital mockup). Ability to present completed work</p> <p>Exercises:1. Orthographic projections on three planes perpendicular to each other. Freehand sketching.2. Architectural drawing.3. Urban drawing - site plan.4. Urban drawing - urban plan, Schwarzplan.5. Spatial development plans.6. Axonometric projection. Freehand sketching.7. Axonometry. Military projection.Lab:1. Basics of 3D modeling in SketchUp2. Model of the architectural object3. Modeling of the area and the natural environment3. Modeling of simple urban layouts in the field.4. Presentation of urban space in parallel and perspective projection views, animations.5. Working with raster graphics in Corel PHOTO-PAINT6. Working with 2D graphics in CorelDRAW - presentation graphics7. Working with 2D graphics in CorelDRAW - spatial development plans</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	correctness and graphic aesthetics of works	100.0%	50.0%
	passing verify classes and a test	100.0%	50.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> - Rysunek techniczny i planistyczny, B. Czarnecki, Białystok 2002 - Polska Norma: PN-B-01027:2002, - Course materials: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368 - User manuals available from within programs and / or provided online 	
	Supplementary literature	<ul style="list-style-type: none"> - Landscape Graphics, Grant W. Reid, Watson Guptill Publications, New York, 2002 - Rysunek odręczny dla architektów krajobrazu, praca zbiorowa, Wyd. SGGW, W-wa 2003 - Rysunek techniczny i odręczny w budownictwie, H.J. Samujłło, Arkady, Warszawa 1974 - Rysunek budowlany, L. Wojciechowski, WSiP, Warszawa 1999 - Polska Norma: PN-B-01025:2004, PN-B-01030:2000, PN-B-01029:2000 - W. Wrotek, CorelDRAW Graphics Suite, Helion 	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	<p>1. The orthogonal projection into three viewports2. Architectural and construction drawing3. Freehand and digital urban planning drawing, digital model of the housing estate4. Freehand and digital spatial planning drawing, local spatial plan</p>		
Work placement	Not applicable		

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