GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2026	Academic year of realisation of subject	2026/2027
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 -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Małgorzata Rogińska-Niesłuchowska	
	Teachers	dr inż. arch. Małgorzata Rogińska-Niesłuchowska mgr inż. arch. Joanna Kowalewska	

Lesson types

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_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.	[SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools
[K6_W03] has knowledge in the field of mathematics and physics relating to issues related to space management, including the 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

<table>
<tr><td>Subject contents</td><td>Course content – exercises
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

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</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>passing verify classes and a test</td><td>100.0%</td><td>50.0%</td></tr>
<tr><td>correctness and graphic aesthetics of works</td><td>100.0%</td><td>50.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>- 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</td></tr>
<tr><td>Supplementary literature</td><td>- 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</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. The orthogonal projection into tree 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</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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