GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Technical drawing and urban planning drawing, PG_00049065		
Field of study	Spatial Development		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2020/2021
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research 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 Techniques -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Małgorzata Rogińska-Niesłuchowska	
	Teachers	mgr inż. arch. Joanna Kowalewska dr inż. arch. Małgorzata Rogińska-Niesłuchowska	

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

Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368
Adresy na platformie eNauczanie:
Rysunek techniczny i planistyczny 2020/21 - Moodle ID: 8368
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368

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	4.0	16.0	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_U02	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_K02] comprehending technical and non-technical aspects and effects of its activity, initiates various activities for the public interest, including co-organizing social projects, workshops and public debates on issues related to spatial management, within which it can reliably present a problem on a non-professional forum and explain the methods and solutions used	The ability to select appropriate graphic means and computer tools for the presentation of studies and design solutions related to spatial management.	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents	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
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
passing verify classes and a test	100.0%	50.0%
correctness and graphic aesthetics of works	100.0%	50.0%

Recommended reading

Basic literature	- 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	- 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	Uzupełniające Rysunek techniczny i planistyczny 2020/21 - Moodle ID: 8368 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368

Example issues/ example questions/ tasks being completed	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
Work placement	Not applicable