



## 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-Niestuchowska					
	Teachers	mgr inż. arch. Joanna Kowalewska dr inż. arch. Małgorzata Rogińska-Niestuchowska					
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: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368</a> Adresy na platformie eNauczanie: Rysunek techniczny i planistyczny 2020/21 - Moodle ID: 8368 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368</a>						
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	<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
	passing verify classes and a test	100.0%	50.0%
	correctness and graphic aesthetics of works	100.0%	50.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> <li>- Rysunek techniczny i planistyczny, B. Czarnecki, Białystok 2002</li> <li>- Polska Norma: PN-B-01027:2002,</li> <li>- Course materials: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368</a></li> <li>- User manuals available from within programs and / or provided online</li> </ul>	
	Supplementary literature	<ul style="list-style-type: none"> <li>- Landscape Graphics, Grant W. Reid, Watson Guptill Publications, New York, 2002</li> <li>- Rysunek odręczny dla architektów krajobrazu, praca zbiorowa, Wyd. SGGW, W-wa 2003</li> <li>- Rysunek techniczny i odręczny w budownictwie, H.J. Samujłło, Arkady, Warszawa 1974</li> <li>- Rysunek budowlany, L. Wojciechowski, WSiP, Warszawa 1999</li> <li>- Polska Norma: PN-B-01025:2004, PN-B-01030:2000, PN-B-01029:2000</li> <li>- W. Wrotek, CorelDRAW Graphics Suite, Helion</li> </ul>	
	eResources addresses	<p>Uzupełniające</p> <p>Rysunek techniczny i planistyczny 2020/21 - Moodle ID: 8368  <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8368</a></p>	
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		