GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	CAD. Introduction, PG_00055858		
Field of study	Architecture		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
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	English
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	mgr inż. arch. Dariusz Cyparski	
	Teachers	mgr inż. arch. Dariusz Cyparski	

Lesson types and methods of instruction

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

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

The program aims to build students' knowledge about the possibilities of using computer programs to create design documentation and graphical presentations and develop basic skills in this area.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U03] is able to prepare a graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design	The student uses graphic computer programs to create models and planar representations of three-dimensional objects in order to present the results of the design process.	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task
[K6_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context	Has practical skills in creating and editing vector graphics and raster images. Can select appropriate computer tools and graphic resources for a design task.	[SU4] Assessment of ability to use methods and tools

<table>
<tr><td>Subject contents</td><td>The application of computer graphics in architectural design

1. Creation of digital spatial models in SketchUp:

- creation, modifications and transformations of geometric objects

- navigation in virtual space and defining parallel and perspective views

2. Creating visualizations of architectural objects based on digital models

- the use of materials library and components

3. Creating technical vector drawings in AutoCAD

- digital drawing management - properties, styles, layers, blocks, groups, etc.

- printing to the scale

4. Creating complex digital documents

- combining vector drawings, raster images and text</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>IT knowledge at the secondary school level</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>substantive and graphical correctness of practical exercises</td><td>100.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td>Recommended reading</td><td><table>
<tr><td>Basic literature</td><td>1. Course materials: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8638

2. User manuals available from the program's levels and/or provided online by software developers</td></tr>
<tr><td>Supplementary literature</td><td>1. A. Jaskulski, AutoCAD 2019/LT2019/ Web / Mobile+ / Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D, Wersja polska i angielska, PWN 2018

2. Pottmann H, Asperl A., Hofer M., Kilian A.: Architectural Geometry. Bentley Institute Press 2007.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
</table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Models of architectural objects - viewing platform, summer house, single family house

Vector drawings - elevations, conceptual floor plans, detail

Multi-page document - portfolio</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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