GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	CAD Introduction, PG_00055692		
Field of study	Architecture		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2022/2023
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		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Małgorzata Rogińska-Niesłuchowska	
	Teachers	dr inż. arch. Małgorzata Rogińska-Niesłuchowska dr hab. inż. arch. Maria Helenowska-Peschke	

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_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context	He/she has practical skills in creating and editing vector graphics and raster images. He/she can select the suitable computer tools and the adequate graphics type for the design task.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject
[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	A student uses graphic computer programs to create models and drawings of three-dimensional objects in order to present the results of the design process.	[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment

Subject contents	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 and post-processing raster images in CorelDRAW Graphics Suite 4. Creating technical vector drawings in AutoCAD - digital drawing management - properties, styles, layers, blocks, groups, etc. - printing to the scale 5. Creating complex digital documents - combining vector drawings, raster images and text
Prerequisites and co-requisites	IT knowledge at the secondary school level

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
substantive and graphical correctness of practical exercises	100.0%	100.0%

Recommended reading

Basic literature	1. Course materials: https://enauczanie.pg.edu.pl/moodle/course/index.php?categoryid=176 2. User manuals available from the program's levels and/or provided online by software developers
Supplementary literature	1. A. Jaskulski, *AutoCAD 2020/LT20120 (2013+) Podstawy projektowania parametrycznego i nieparametrycznego.* Wersja polska i angielska, PWN 2019 + ćwiczenia https://it.pwn.pl/Artykuly/AutoCAD-2020-LT-2020-2013 2. A. Jaskulski, *AutoCAD 2019/LT2019/ Web / Mobile+ / Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D*, Wersja polska i angielska, PWN 2018 3. W. Wrotek, CorelDRAW Graphics Suite, Helion 4. Pottmann H, Asperl A., Hofer M., Kilian A.: *Architectural Geometry*. Bentley Institute Press
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Models of architectural objects - viewing platform, pergola, summer house, single family house Vector drawings - elevations, conceptual floor plans, detail Multi-page document - portfolio
Work placement	Not applicable

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