



Subject card

Subject name and code	CAD. Introduction, PG_00055858						
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			blended-learning		
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 Arts -> 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: 15.0						
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	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		
	[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.			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		

Subject contents	<p>The application of computer graphics in architectural design</p> <p>1. Creation of digital spatial models in SketchUp:</p> <ul style="list-style-type: none"> - creation, modifications and transformations of geometric objects - navigation in virtual space and defining parallel and perspective views <p>2. Creating visualizations of architectural objects based on digital models</p> <ul style="list-style-type: none"> - the use of materials library and components <p>3. Creating technical vector drawings in AutoCAD</p> <ul style="list-style-type: none"> - digital drawing management - properties, styles, layers, blocks, groups, etc. - printing to the scale <p>4. Creating complex digital documents</p> <ul style="list-style-type: none"> - combining vector drawings, raster images and text 								
Prerequisites and co-requisites	IT knowledge at the secondary school level								
Assessment methods and criteria	<table border="1" data-bbox="448 1016 1477 1115"> <thead> <tr> <th data-bbox="448 1016 798 1055">Subject passing criteria</th> <th data-bbox="802 1016 1142 1055">Passing threshold</th> <th data-bbox="1147 1016 1477 1055">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1061 798 1115">substantive and graphical correctness of practical exercises</td> <td data-bbox="802 1061 1142 1115">100.0%</td> <td data-bbox="1147 1061 1477 1115">100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	substantive and graphical correctness of practical exercises	100.0%	100.0%		
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Recommended reading	Basic literature	<p>1. Course materials: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8638</p> <p>2. User manuals available from the program's levels and/or provided online by software developers</p>							
	Supplementary literature	<p>1. A. Jaskulski, <i>AutoCAD 2019/LT2019/ Web / Mobile+ / Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D</i>, Wersja polska i angielska, PWN 2018</p> <p>2. Pottmann H, Asperl A., Hofer M., Kilian A.: <i>Architectural Geometry</i>. Bentley Institute Press 2007.</p>							
	eResources addresses	Adresy na platformie eNauczanie: CAD Introduction (2022/23) - Moodle ID: 21912 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=21912							
Example issues/ example questions/ tasks being completed	<p>Models of architectural objects - viewing platform, summer house, single family house</p> <p>Vector drawings - elevations, conceptual floor plans, detail</p> <p>Multi-page document - portfolio</p>								
Work placement	Not applicable								

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