

Subject card

Subject name and code	CAD. 3D Modeling, PG_00052604								
Field of study	Architecture								
Date of commencement of	October 2020		Academic year of			2020/2021			
studies			realisation of subject						
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	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Visual Techniques ->		Faculty of Architecture						
Name and surname	Subject supervisor		mgr inż. arch. Dariusz Cyparski						
of lecturer (lecturers)	Teachers		mgr inż. arch. Dariusz Cyparski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM	
of instruction	Number of study hours	0.0	0.0	30.0	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=8920 Adresy na platformie eNauczanie:								
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		2.0		18.0		50	
Subject objectives	Expanding knowledge and deepening the ability to use advanced digital tools for creating complex geometric structures and free (curvilinear) forms. Expanding the knowledge and deepening the skills of using advanced rendering engines simulating the physical features of the real world in order to present designed architectural objects. Gaining knowledge about the current directions of development of tools for advanced modeling of architectural objects (parametric modeling, animation, BIM).								
Learning outcomes	Course out	come	Subject outcome		Method of verification				
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		The student is able to use the possibilities of processing and obtaining design information using digital tools for 3D geometry modeling and visualization.		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information				
Subject contents	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 knows the specifics and possibilities of various computer tools and is able to choose the appropriate digital tool for the project task (drawing, modeling, documentation development). Understands the role of architectural visualization in communicating the design idea. D v 2019 - tools for modeling objects						
Subject contents	(Nurbs) and Mesh type.2. Creating a project presentation using advanced rendering and a viewports layout AutoCAD v 20193. The use of modeling and visualization skills for the task carried out on the subject Architectural Design sem 2								

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Prerequisites and co-requisites	Ability to prepare 2D architectural drawings							
and co-requisites								
	Ability to build models of architectural objects with simple geometry							
	Ability to post-process raster images							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	50	80.0%	50.0%					
	50	80.0%	50.0%					
Recommended reading	Basic literature	Manual and help on line https://help.autodesk.com/view/ACD/2019/PLK/						
	Supplementary literature	Helenowska-Peschke M., "Warsztat współczesny architekta", w dodatek Architektura -Murator nr. 4 , 2018						
		Radziszewski R.,. " Architektura parametryczna", w dodatek Architektura -Murator nr. 4 , 2018						
	Radziszewski R., "Projektowanie generaty Architektura -Murator nr. 4 , 2018		generatywne", w dodatek					
		Rogińska-Niesłuchowska, "Architektura i światło", w Czasopismo Techniczne, 2010						
	eResources addresses	Podstawowe https://academy.autodesk.com/software/autocad - Free video trair in AutoCAD from AutoDesk Design Academy Uzupełniające						
Example issues/ example questions/ tasks being completed	Model of an object with free curvilinear geometry							
table 20mg completed	Photorealistic visualization of the external scene (object with its surroundings)							
	Development of variants of material and color solutions of your own design							
Work placement	Not applicable							

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