

## Subject card

Subject name and code	CAD. 3D Modeling, PG_00061505								
Field of study	Architecture								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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 Arts -> Faculty of Architecture								
Name and surname	Subject supervisor		mgr inż. arch. Dariusz Cyparski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 0.0						1		
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
	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 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 knows the specifics and possibilities of various			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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.			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
Subject contents	3D geometry modeling in AutoCAD tools for modeling objects belonging to Solid, Surface (Nurbs) and Mesh type.								
	Creating a project presentation using advanced rendering and a viewports layout AutoCAD     The use of 3D modeling and visualization skills for the task carried out on the subject Architectural Design sem II								

Prerequisites and co-requisites	Ability to prepare 2D architectural drawings							
	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	on line help https://knowledge.autodesk.com/						
	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 generatywne", w dodatek Architektura -Murator nr. 4 , 2018						
		Rogińska-Niesłuchowska, "Architektura i światło", w Czasopismo Techniczne , 2010						
	eResources addresses	Advanced						
		Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Model of an object with free curvilinear geometry							
	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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