

Subject card

Subject name and code	CAD. Integrated Architectural Design, PG_00052799								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Urban Architecture and Waterscapes -> Faculty of Architecture								
Name and surname	Subject supervisor dr inż. arch. Robert Juchnevič								
of lecturer (lecturers)	Teachers		dr inż. arch. Jarosław Bąkowski						
			dr inż. arch. Robert Juchnevič						
			mgr inż. arch. Kacper Radziszewski						
			dr hab. inż. arch. Maria Helenowska-Peschke						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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								
	Adresy na platformie eNauczanie: Projektowanie zintegrowane RJ_2021/22 - Moodle ID: 17546 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17546								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	30		1.0		19.0		50	
Subject objectives	During the course, students will learn about: the concept of integrated design and the use of modern digital tools in an integrated design process. During the course, students will prepare architectural project that can be reused in: environmental analyzes, traditional architectural design documentation and architectural visualization.								
Learning outcomes	comes Course outcome Subject outcome				Method of verification				
	presentation of your own design concepts in the field of		The student is able to define the key features of the concept of integrated design. Student is able to choose proper tools to implement this concept.			[SU4] Assessment of ability to use methods and tools			
	architectural object or a simple urban complex that meets the aesthetic and technical requirements advantage of integral able to confide a single is able to			advantages of using the concept of integrated design. Student is able to create an integrated model of a single-family building. Student is able to reuse an integrated model through entire design			[SU1] Assessment of task fulfilment		

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Subject contents	The classes will use the Autodesk Revit in the concept of integrated design. Discussion about the concept of integrated design and digital tools dedicated to it. Overview of the IFC standardized format. Overview of Autodesk Revit and workflow methods. Development of a model of a simple sample building. Overview of graphic properties of component objects. Preparing projections, elevations, cross-sections, site plan. Overview of the basics of creating families. Development of simple parametric family. Introduction to rendering techniques in Revit and external rendering engines (Enscape,Vray, Lumion). Discussion of the possibility of publishing the project to archiving formats. Discussion of the possibility of conducting environmental analyzes based on the modelnormalized. Creating an integrated model of your own design. Development of comprehensive documentation of the conceptual design.						
Prerequisites and co-requisites	Basic skills of any CAD drawing program. Basic skills of any 3d modeling program. Basic skills of any raster graphics editing program. Ability to use the PG eLearning platform.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Casjeet passing enterta	40.0%	30.0%				
		40.0%	70.0%				
Recommended reading	Basic literature	Books: Eastman C.M., BIM handbook : a guide to building information modeling for owners, managers, designers, engineers, and contractor Wiley 2008. Webpages: https://www.autodesk.com/autodesk-university https://www.youtube.com/channel/UC0y73dD7p4gjV2x9etleL4w https://www.chaosgroup.com/vray/revit/tutorial-videos					
	Supplementary literature	Books: A. Tedeschi, AAD, Algorithms-aided design: parametric strategies using Grasshopper, 2014.					
	eResources addresses	Projektowanie zintegrowane RJ_2021/22 - Moodle ID: 17546 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17546					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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