

Subject card

Subject name and code	CAD. Integrated Architectural Design, PG_00056907							
Field of study	Architecture							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			blended-learning		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			3.0		
Learning profile	general academic pro	emic profile Asses		nent form		assessment		
Conducting unit	Department of Visual	Techniques ->	es -> Faculty of Architecture					
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		mgr inż. arch. Kacper Radziszewski					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	45.0	0.0		0.0	45
	E-learning hours inclu	ıded: 25.0	•					
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	45		6.0		24.0		75
Subject objectives	During the course, students learn the methods of saving a project in the form of an algorithm using visual programming. Laboratories discuss the basic terms and methods of data recording, processing, visualization and a review of selected algorithms used in architectural design.							
Learning outcomes	Course out	come	Subj	ect outcome		Method of verification		
	[K7_W02] knows and the rules of gathering and their interpretation project concept prepulated issues related architecture and urbathe field of complex of problems solving	knows and understands the rules of gathering information and their interpretation as a part of project concept preparation			[SW3] Assessment of knowledge contained in written work and projects			
[K7_U03] is able to prepart advanced graphic, written presentation of own design concepts in the field of architecture and urban platements professional record approarchitectural and urban design architectural and urban design.			is able to prepare advanced graphic, written and oral presentation of own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools		

Data wydruku: 20.05.2024 19:59 Strona 1 z 2

Subject contents	Students in pairs or individually algorithm using Grasshopper3d the software and the design par course, students will use additio introduction to the content of introduction to Grasshopper3d algorithmic modeling (vord 3D algorithmic modeling (sAN 3d algorithmic modeling (attra 3D modeling Grasshopper and own work on the concept of the introduction to data visualization working in Grasshopper3d on working in Grasshopper3d on work at Grasshopper3d on the in pairs) work on presenting the project	design the facade system, which will . Each of the classes consists of two t, during which students work on deve onal grasshopper libraries such as Lui the course and getting to know the R d software + exercise onoi diagram) NAA Pavilion) actor) urface and lunchbox accessory d Weaverbird add-on the facade and record the design in the ion in Grasshopper3d to advanced detail modeling (part 1) to advanced detail modeling (part 2) sualization and data export methods to solution of the concept (online consistence)	then be written in the form of an stages: introduction to a new issue in eloping the algorithm. During the nchBox and Weaverbird. hinoceros software interface + exercise e form of algorithm steps			
Prerequisites and co-requisites	Knowledge of CAD software. Knowledge of 3d modeling in an	ny software.				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	facade design	70.0%	40.0%			
	laboratory reports	70.0%	60.0%			
Recommended reading	Basic literature		AAD_Algorithms-Aided Design, Parametric Strategies Using Grasshopper, Author: Arturo Tedesch Bonenberg, Wojciech, Giedrowicz, Marcin, Radziszewski, Kacper. (2019). Współczesne projekowanie parametryczne w architekturze https://www.modelab.is/grasshopper-primer https://www.grasshopper3d.com/			
		Bonenberg, Wojciech, Giedrowi (2019). Współczesne projekowa https://www.modelab.is/grassho	cz, Marcin, Radziszewski, Kacper. anie parametryczne w architekturze opper-primer			
	Supplementary literature	Bonenberg, Wojciech, Giedrowi (2019). Współczesne projekowa https://www.modelab.is/grassho https://www.grasshopper3d.com	cz, Marcin, Radziszewski, Kacper. anie parametryczne w architekturze opper-primer			
	Supplementary literature eResources addresses	Bonenberg, Wojciech, Giedrowi (2019). Współczesne projekowa https://www.modelab.is/grassho https://www.grasshopper3d.com	cz, Marcin, Radziszewski, Kacper. anie parametryczne w architekturze apper-primer n/ on,by Helmut Pottmann, Bentley			
Example issues/ example questions/ tasks being completed	eResources addresses parametric modeling of Voronoi SANAA Pavilion algorithmic mod	Bonenberg, Wojciech, Giedrowi (2019). Współczesne projekowa https://www.modelab.is/grassho https://www.grasshopper3d.com Architectural Geometry 1st Editi Adresy na platformie eNauczan 2d geometry	cz, Marcin, Radziszewski, Kacper. anie parametryczne w architekturze apper-primer n/ on,by Helmut Pottmann, Bentley nie:			

Data wydruku: 20.05.2024 19:59 Strona 2 z 2