

Subject card

Architecture								
		Architecture						
October 2024		Academic year of realisation of subject			2024/2025			
first-cycle studies		Subject group			Obligatory subject group in the field of study			
Full-time studies		Mode of delivery			at the university			
1		Language of instruction			Polish			
2		ECTS credits			2.0			
general academic profile		Assessment form			assessment			
Department of Visual Techniques -> Faculty of Architecture								
Subject supervisor		mgr inż. arch. Dariusz Cyparski						
Teachers								
Lesson type				+ ' +			SUM	
hours		0.0	30.0	0.0		0.0	30	
Learning activity	Participation in classes includ				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).								
Course outo	come	Sub	iect 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 computer tools and is able to			[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			
1. 3D geometry modeling in AutoCAD tools for modeling objects belonging to Solid, Surface (Nurbs) and Mesh type.								
2. Creating a project presentation using advanced rendering and a viewports layout AutoCAD								
3. The use of 3D modeling and visualization skills for the task carried out on the subject Architectural Design sem II								
	Gaining knowledge at architectural objects (Course oute [K6_U03] is able to p graphic, written and urbaneeting the requirem professional record a architectural and urbaneeting the requirem project tasks 1. 3D geometry mode when the project part of the project par	general academic profile Department of Visual Techniques -> Subject supervisor Feachers Lesson type Lecture Number of study ours E-learning hours included: 0.0 Learning activity Participation in classes includ plan Number of study ours Expanding knowledge and deepening structures and free (curvilinear) form Expanding the knowledge and deepening structures of the real world in ours Course outcome [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 [K6_U04] is able to use analytical methods to formulate and solve project tasks 1. 3D geometry modeling in AutoCAMesh type. 2. Creating a project presentation us 3. The use of 3D modeling and visual and solve project tasks	realisation Subject gro Full-time studies Mode of de Language ECTS cred General academic profile Department of Visual Techniques -> Faculty of Arc Subject supervisor Feachers Lesson type Lecture Number of study nours E-learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study nours Expanding knowledge and deepening the ability to structures and free (curvilinear) forms. Expanding the knowledge and deepening the skills onlysical features of the real world in order to presentation of your own design concepts in the field of architectural objects (parametric modelling, animatic professional record appropriate for architectural and urban planning, meeting the requirements of a graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a graphic, written and oral professional record appropriate for architectural and urban design Course outcome [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 [K6_U04] is able to use analytical methods to formulate and solve project tasks The student is and possibilities of the project modelling, dor the project oposibilities of obtaining designation of your own design and the project tasks The student is and possibilities of the project professional record appropriate for the project oposibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibilities of the project tasks The student is and possibiliti	realisation of subject irst-cycle studies Subject group Mode of delivery Language of instruction ECTS credits Beneral academic profile Department of Visual Techniques -> Faculty of Architecture Subject supervisor Teachers Lesson type Lecture Lecture Tutorial Laboratory Number of study nours Learning activity Participation in didactic classes included in study plan Number of study nours Participation in didactic classes included in study plan Number of study nours Expanding knowledge and deepening the ability to use advanced structures and free (curvilinear) forms. Expanding knowledge and deepening the skills of using advaronysical features of the real world in order to present designed and prospecting in the field of architectural objects (parametric modeling, animation, BIM). Course outcome [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 [K6_U03] is able to use analytical methods to formulate and solve project task [K6_U04] is able to use analytical methods to formulate and solve project tasks The student knows the speciand possibilities of various computer tools and is able to choose the appropriate digits for the project task (drawing, modeling, documentation of vour own design communicating the design in formation digital tools for 3D geometry modeling and visualization. The student knows the speciand possibilities of processing an obtaining design information digital tools for 3D geometry modeling and visualization. The student is able to use the possibilities of processing an obtaining design information digital tools for 3D geometry modeling and visualization. The student is able to use the possibilities of processing an obtaining design information digital tools for 3D geometry modeling and visualization. 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Course outcome KE(E_U03) is able to prepare a graphic, written and oral professional record appropriate for architecture and urban planning, mocepts in the field of architecture and urban design oncepts in the field of architecture and urban design oncepts in the field of architecture and urban design oncepts in the field of architecture and urban design oncepts in the field of architecture and urban design oncepts in the field of architecture and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural and urban design oncepts in the field of architectural visualization in consultation development). Understands the role of architectural visualization in consultation design information using digital tools for 3D geometry modeling and visualization in information using digital tools for 3D geometry modeling and visualization in consultation and visualization. 1. 3D geometry modeling in AutoCAD tools for modeling objects belonging to Scheen	irst-cycle studies Subject group Obligatory subject greit gloup Obligatory subject greit gloup Subject group Obligatory subject greit glot glot glot glot glot glot glot glo	

Data wydruku: 30.06.2024 21:14 Strona 1 z 2

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	n line help https://knowledge.autodesk.com/					
G C	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						
		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						

Data wydruku: 30.06.2024 21:14 Strona 2 z 2