

COURSE DESCRIPTION CARD

Bialystok University of Technology										
Field of study	ARCHITECTURE							Level and form of study	first degree stationary	
A group of module/specialty	Common subject							Education profile	general academic	
Course name	Computer-Aided Architectural Design 2							Course code	AUII 3004	
								Type of classes	required	
Forms of classes	L	T	LC	P	SW	FW	S	Semester	3	
				45				ECTS credits	3	
Introductory courses	-									
Objectives of the course	Develop spatial modeling skills using CAD software. To develop the ability to apply CAD in the creation of spatial forms. To teach the principles of presenting architectural composition in digital space.									
Programme content	Design of abstract spatial forms (Relief, Solid with a specific emotional impact, passage through space), or design of building concepts (house, small architecture object, small urban form). Making 3D visualizations. Preparation of computer animation, 3D printing or VR visualization presenting designed spatial forms. Printing visualizations, presentation boards, 3D forms.									
Teaching methods	analysis, searching for solutions to given problems, lectures supported by multimedia presentations, design based on comparative methods									
Forms of crediting	Graded credit for course projects and portfolios.									
Outcomes symbols	Expected learning outcomes								Reference to learning outcomes defined for the field of study	
EU1	Knows the basic principles of the creation of spatial forms								A1_W03, A1_W09, A1_W10, A1_U04, A1_U09	
EU2	Knows the basic principles of using CAD software								A1_W03, A1_W09, A1_W10, A1_U04, A1_W11, A1_U09	
EU3	Knows the basic principles of making visualizations and computer animations								A1_W03, A1_W10, A1_U06, A1_U09	
EU4	Can present designed spatial compositions								A1_W04, A1_W10, A1_K01, A1_K04	
Outcomes symbols	Methods of verification of learning outcomes								Form of classes subject to verification	
EU1	Participation in project activities								Project activities	
EU2	Participation in consultations related to the project								Project activities	

EU3	Working on the project	Project activities	
EU4	Preparation of the project presentation	Project activities	
EU5	Participation in consultations related to the project	Project activities	
Student's workload balance (in hours)		Hours	
Calculation	Participation in project activities	45	
	Participation in consultations	5	
	Final project presentation	1	
	TOTAL:	51	
Quantitative indicators		HOURS	ECTS
Student workload related to classes requiring direct teacher involvement		45	3
Basic reference literature	1. Asanowicz A., <i>Percepcja jako czynnik kształtujący formę architektoniczną</i> , Wydawnictwa PB, Białystok, 1988, 2. Boardman T., <i>Getting Started in 3D with 3ds Max: Model, Texture, Rig, Animate, and Render in 3ds Max</i> , Focal Press, 2012		
Supplementary references	1. Pasek J., <i>Wizualizacje architektoniczne. 3ds Max 2011 i 3ds Max Design 2011</i> , Helion, Gliwice, 2011. 2. Pazdur W., <i>3ds Max. Leksykon</i> , Helion, Gliwice, 2012. 3. Murdock K. L., <i>3ds Max 2012 Bible</i> , John Wiley & Sons, 2011.		
Implementing unit	Department of Architectural Design Laboratory of Technical Support of Design	Program development date	
Program developed by	dr inż. arch. Bartosz Śliwecki	27.12.2020	