



Subject card

Subject name and code	Theory of architectural design II. Elements of ergonomomy, PG_00055697						
Field of study	Architecture						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Residential Architecture -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. arch. Marta Radziwiłowicz					
	Teachers	mgr inż. arch. Marta Radziwiłowicz					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
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	15		2.0		8.0	25
Subject objectives	The aim of the course is to learn the basic principles of ergonomics used in architectural design.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W03] knows and understands history and theory of architecture as well as art, technology and humanities to the extent necessary for the proper performance of architectural designs; issues related to architecture and urban planning useful for the design of architectural objects and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activities, integrating knowledge acquired during studies;	The student knows and understands the theory of architecture and the principles of ergonomics to the extent necessary for the proper execution of architectural designs			[SW1] Assessment of factual knowledge		
	[K6_W04] knows and understands relations between man and architecture and between architecture and the surrounding environment, and the need to adapt architecture to human needs and scale; problems of physics, technology and functions of buildings to the extent that ensures comfort of use and protection against the effects of weather; methods and means of implementing environmentally responsible sustainable design as well as protection and conservation of the surrounding environment	The student should learn the principles of adapting the environment to human needs; giving size to objects, defining relations and size between objects, defining functions and sizes of rooms, defining relations between functions and compiling them into functional zones, giving size to architectural objects and defining relations and sizes between architectural objects.			[SW3] Assessment of knowledge contained in written work and projects		
[K6_K03] is ready to take responsibility for architectural and urban values in environmental protection and cultural heritage	The student is ready to take responsibility for the architectural and urban values of the designed objects			[SK5] Assessment of ability to solve problems that arise in practice			

Subject contents	<p>PROGRAM CONTENT</p> <p>LECTURE 1 - definitions of ergonomics - human scale / basics of dimensioning</p> <p>LECTURE 2 - subject / function of the subject - object / size giving</p> <p>LECTURE 3 - use of the subject - group of objects / function of the room</p> <p>LECTURE 4 - complex of rooms / function of the facility / technology - facility circulation / communication</p> <p>LECTURE 5 - building communication / entrances, exits, passages - light in the building</p> <p>LECTURE 6 - the relation of the object with the surroundings / situation - relations between objects</p> <p>LECTURE 7 - a complex of architectural objects - building standards / building law / health and safety / fire protection</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 808 794 837">Subject passing criteria</th> <th data-bbox="796 808 1139 837">Passing threshold</th> <th data-bbox="1141 808 1482 837">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 840 794 869">evaluation of the study</td> <td data-bbox="796 840 1139 869">100.0%</td> <td data-bbox="1141 840 1482 869">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	evaluation of the study	100.0%	100.0%			
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Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> • Draw the bathroom in the scale 1: 25 and dimension it according to the drawing diagrams from the lectures. Elements of equipment, doors and windows should be drawn using conventional graphic markings (as in architectural templates). A4 drawing format • Draw a plan and a section of the bathroom in 1:25 scale with a view of the equipment elements, mark the section on the plan, dimension the drawings according to the lecture diagrams. Room height 250-270 cm. A4 + A4 drawing format • Draw a plan and a section of the bathroom in 1:25 scale with a view of the equipment elements, mark the section on the plan, dimension the drawings according to the lecture diagrams. Room height 250-270 cm. Draw the military axonometry, i.e. with the geometry of the projection and real heights in the 1:25 scale. Drawing format A4 + A4 + A4 (or A3) 											
Work placement	Not applicable											