



## Subject card

Subject name and code	Theory of architectural design II. Elements of ergonomics, PG_00052768						
Field of study	Architecture						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2020/2021		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research 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						
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						
	Adresy na platformie eNauczanie: Teoria projektowania architektonicznego II. Ergonomia - Moodle ID: 12008 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12008">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12008</a>						
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		1.0		9.0	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_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_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_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	Subject passing criteria	Passing threshold	Percentage of the final grade
	evaluation of the study	100.0%	100.0%
Recommended reading	Basic literature	Neufert E.: Podręcznik projektowania architektoniczno-budowlanego	

	Supplementary literature	<ul style="list-style-type: none"> <li>• Elżbieta Król-Bač., Wpływ uwarunkowań fizycznych na kształtowanie najbliższego otoczenia człowieka., Wrocław 92, Prace naukowe Instytutu Architektury i Urbanistyki Politechniki Wrocławskiej 28/16</li> <li>• Etienne Grandjean., Ergonomia mieszkania., ARKADY-WARSZWA 1978</li> <li>• Ewa Kurylowicz., Projektowanie uniwersalne., Centrum badawczo-rozwojowe rehabilitacji osób niepełnosprawnych.,Warszawa 1996</li> <li>• Projektowanie dla wszystkich., praca zbiorowa., Stowarzyszenie Przyjaciół Integracji., Warszawa 2004</li> <li>• Maria Konarska., Ergonomia pracy biurowej., CIOP Warszawa 2001</li> </ul>
	eResources addresses	Teoria projektowania architektonicznego II. Ergonomia - Moodle ID: 12008 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12008">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12008</a>
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> <li>• 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)</li> </ul>	
Work placement	Not applicable	