GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Theory of architectural design II. Elements of ergonomy, PG_00055697		
Field of study	Architecture		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
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 Housing and Architecture of Public Buildings -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. arch. Antoni Taraszkiewicz	
	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

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

<table>
<tr><td>Subject contents</td><td>PROGRAM CONTENT

LECTURE 1 - definitions of ergonomics - human scale / basics of dimensioning

LECTURE 2 - subject / function of the subject - object / size giving

LECTURE 3 - use of the subject - group of objects / function of the room

LECTURE 4 - complex of rooms / function of the facility / technology - facility circulation / communication

LECTURE 5 - building communication / entrances, exits, passages - light in the building

LECTURE 6 - the relation of the object with the surroundings / situation - relations between objects

LECTURE 7 - a complex of architectural objects - building standards / building law / health and safety / fire protection</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>evaluation of the study</td><td>100.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td>Recommended reading</td><td><table>
<tr><td>Basic literature</td><td>Neufert E.: Podręcznik projektowania architektoniczno-budowlanego</td></tr>
<tr><td>Supplementary literature</td><td>• Elżbieta Król-Bać., Wplyw uwarunkowań fizycznych na ksztaltowanie najbliższego otoczenia czlowieka., Wroclaw 92, Prace naukowe Instytutu Architektury i Urbanistyki Politechniki Wroclawskiej 28/16
• Etienne Grandjean., Ergonomia mieszkania., ARKADY-WARSZWA 1978
• Ewa Kurylowicz., Projektowanie uniwersalne., Centrum badawczo-rozwojowe rehabilitacji osób niepelnosprawnych.,Warszawa 1996
• Projektowanie dla wszystkich., praca zbiorowa., Stowarzyszenie Przyjaciól Integracji., Warszawa 2004
• Maria Konarska., Ergonomia pracy biurowej., CIOP Warszawa 2001</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
</table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>• 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)</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.