



COURSE DESCRIPTION CARD - SYLLABUS

Course name

FUNDAMENTALS OF ARCHITECTURAL DESIGN WITH ELEMENTS OF ERGONOMICS 1

Course

Field of study

Architecture

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

I/1

Profile of study

general academic

Course offered in

English

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

Tutorials

0

Projects/seminars

Other (e.g. online)

0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr hab. inż. arch. Ewa Pruszeicz-Sipińska, prof.
nadm.

e-mail: ewa.pruszeicz-sipinska@put.poznan.pl

Wydział Architektury

ul. Jacka Rychlewskiego 2, 61-131 Poznań

tel. 61 665 33 05

Responsible for the course/lecturer:

dr hab. inż. arch. Maciej Janowski

e-mail: maciej.janowski@put.poznan.pl

Wydział Architektury

ul. Jacka Rychlewskiego 2, 61-131 Poznań

tel. 61 665 33 09

Prerequisites

- the student has basic knowledge covering key issues in the field of art history, including architecture,
- the student has a basic knowledge of development trends in the field of plastic arts and architecture,
- the student has the basic knowledge necessary to understand the social determinants of the architect's design activity, which has a direct impact on the surrounding space



- the student knows the basic methods, techniques, tools and materials used in solving simple tasks in the field of shaping an architectural composition.
- the student is able to fluently use freehand drawing techniques necessary in the design process,
- the student is able to obtain information from literature, databases and other properly selected sources, also in English or another foreign language recognized as the language of international communication; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions,
- the student is able to communicate using various techniques in the professional environment and in other environments,
- the student is able to prepare, in Polish (and a foreign language), considered to be basic for the fields of science and scientific disciplines, a well-documented study of problems related to the field of study being studied,
- the student has the ability to self-study.
- the student understands the need for lifelong learning; can inspire and organize the learning process of other people,
- the student is aware of the importance of issues undertaken by the architect and the related responsibility for the actions taken,
- the student is able to think and act in an entrepreneurial, creative and innovative way,
- the student is able to interact and work in a group, assuming various functions in it.

Course objective

- presentation of the design process, taking into account the basic tools of the architect's work and basic issues related to shaping the architectural form and urban space,
- presentation of psychophysical relations between man and architecture, and design principles consistent with ergonomics,
- presenting the basic principles of an architectural composition,
- presenting the basic principles of urban composition,
- familiarization with the development of various, often contradictory, directions and tendencies of contemporary architecture and urban planning, taking into account its origins, sources of inspiration, program assumptions and directions of development,
- presentation of the continuity and evolutionary nature of changes in architecture,



- familiarization with changes in architecture resulting from the development of culture and societies (transition from an industrial society to an information society) that took place in the 20th century and are still ongoing today,
- sensitizing to the importance of the broadly understood context.

Course-related learning outcomes

Knowledge

A.W1. architectural design for the implementation of simple tasks, in particular: simple facilities taking into account the basic needs of users, single- and multi-family housing, service facilities in residential complexes, public facilities in an open landscape or in an urban environment;

A.W4. principles of universal design, including the idea of designing spaces and buildings accessible to all users, in particular for people with disabilities, in architecture, urban planning and spatial planning, and ergonomic principles, including ergonomic parameters necessary to ensure full functionality of the designed space and facilities for all users, especially for people with disabilities

Skills

A.U4. make a critical analysis of the conditions, including the valorization of the land development and building conditions;

A.U6. integrate information obtained from various sources, formulate their interpretation and critical analysis;

Social competences

A.S2. taking responsibility for shaping the natural environment and cultural landscape, including the preservation of the heritage of the region, country and Europe.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The method of checking the learning outcomes - lecture: essay / presentation of a selected issue of contemporary architecture.. The correctness and completeness of the statement on a given topic and the correct application of the research apparatus are assessed. An equivalent form of getting credit is a multiple-choice test consisting of 20 questions, placed in the e-Kursy system.

The basis for taking the credit is obtaining credit for the exercises within the education module.

Summative assessment:

Approved grading scale: 2.0; 3.0; 3.5; 4.0; 4.5; 5.0.

Programme content

1. LECTURES:

Lecture 1. Introduction. Opportunities and threats of contemporary architecture

Lecture 2. Human relations and the architectural environment. Ergonomics



Lecture 3. Space and Place

Lecture 4. Searching for continuity

Lecture 5. Methods of transforming forms in contemporary architecture

Lecture 6. (Small) form in context

Lecture 7. Contemporary architecture in Poland and in the world.

Teaching methods

1. Lecture with multimedia presentation with elements of conversation.
2. e-Kursy (a system supporting the teaching process and distance learning).

Bibliography

Basic

1. Ghirardo D., Architektura po modernizmie, Toruń 1999
2. Jencks Charles, The Language of Post-Modern Architecture, 1987
3. Jencks Charles, Modern Movement in Architecture, 1987
4. Jencks Charles, Architecture of Late Modern Architecture, 1989
5. Krier Rob, Urban Space, 1979.
5. Norberg-Schulz Christian, Meaning in Western Architecture, 1997.
6. Wejchert K., Elementy kompozycji urbanistycznej, Arkady, Warszawa.
7. Żurawski Juliusz, Theory of Building of Architectural Form, 1962.
8. E-script for the subject „Teoria podstaw projektowania architektonicznego z elementami ergonomii i Podstawy projektowania architektonicznego”.

Additional

1. Alexander Christopher, A Pattern Language. Towns, Buildings, Construction, 1977
2. Koolhaas Rem, Elements of architecture, 2018
3. Periodicals: architectural and urban journals, etc.



Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	45	1,5

¹ delete or add other activities as appropriate