POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)
pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

FUNDAMENTALS OF ARCHITECTURAL DESING WITH ELEMENTS OF ERGONOMICS 2

Course

Field of study	Year/Semester
Architecture	I/2
Area of study (specialization)	Profile of study
-	general academic
Level of study	Course offered in
First-cycle studies	English
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
15	0	0
Tutorials	Projects/seminars	
0		

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

dr hab. inż. arch. Ewa Pruszewicz-Sipińska, prof.PP

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

Wydział Architektury

ul. Jacka Rychlewskiego2, 61-131 Poznań

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

Prerequisites

- the student has an orderly, theoretically founded general knowledge covering key issues in the field of shaping the architectural and urban composition,

- the student has a basic knowledge of development trends in the field of shaping the architectural and urban form,

- the student knows the basic methods used in solving design tasks in the field of shaping the architectural and urban composition,

- the student has the basic knowledge necessary to understand the social conditions of activities related to the proper shaping of space.

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- 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 in the field of study being studied; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions,

- the student is able to prepare a well-documented study on issues related to the main trends and directions of architecture and urban planning in Polish (and a foreign language), considered as basic for the fields of science and scientific disciplines,

- the student has the ability to self-study,

- the student is able to make a critical general analysis and assess the importance of design solutions in the field of architectural and urban composition,

- the student is able to use information and communication techniques including artistic means appropriate to the implementation of tasks typical for shaping an architectural composition.

- the student understands the need for lifelong learning, is able to inspire and organize the learning process of other people,

- the student is aware of the importance and understands the non-technical aspects and effects of architectural activities, including its impact on the environment and on the spatial context, and the associated responsibility for decisions related to the correct shaping of space

- the student correctly identifies the dilemmas related to the profession of an architect and town planner,

- the student is aware of the social role of a technical university graduate, and especially understands the need to formulate and convey to the society, in particular through the mass media, information and opinions on technological achievements and other aspects of engineering activities; makes efforts to provide such information and opinions in a commonly understandable manner,

- the student is able to interact and work in a group, assuming various functions in it.

Course objective
- presenting students with the design process, taking into account the basic tools of the architect's work and basic issues related to shaping the architectural and urban form,

- presenting students with psychophysical relations between man and architecture, and design principles in line with ergonomics,

- presenting students with the basic principles of architectural composition,

- familiarizing students 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,

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- presentation of the continuity and evolutionary nature of changes in architecture,

- familiarizing students with the 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.

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: a final essay in the form of a written statement on a selected issue concerning the issue of a multi-family apartment. The correctness and completeness of statements on a given topic are assessed, as well as the correct application of the research apparatus. An equivalent form of credit is a multiple-choice test consisting of 20 questions, placed in the e-moodle 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

Lecture 1. This year's laureate / laureate of the Pritzker Prize

Lecture 2. Flat_ing and function

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Lecture 3. Apartment_ living room and balcony

Lecture 4. Apartment_kitchen

Lecture 5. Apartment_bathroom

Lecture 6. Bedroom_floor and storage

Lecture 7. Apartment_summary

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. Alexander Ch. A Pattern Language: Towns, Buildings, Construction, Oxford, 1977,

2. Fikus M., Cechy procesu projektowego w działalności twórczej i projektowej, Wydawnictwo P.P., Poznań, 1992,

3. Giedion Siegfried, Przestrzeń, czas, architektura – narodziny nowej tradycji, PWN, Warszawa, 1968,

4. Har Ye Kan, Urban intencities. Contemporary Housing types and territories, Birkhauser, Bazylea, 2014,

5. E-script for the subject: Teoria podstaw projektowania architektonicznego i Podstawy projektowania

Additional

Architectural Magazines and websites

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,0
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]	15	0,5

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[1] delete or add other activities as appropriate