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
Architecture Design

Course

Field of study	Year/Semester
Sustainable Building Engineering	1/II
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	

Number of hours

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

Number of credit points

1

Lecturers

Responsible for the course/lecturer:
dr hab. inż. arch. Maciej Janowski

Responsible for the course/lecturer:

Prerequisites

- the student has basic knowledge covering basic issues in the field of the history of architecture,

- the student has a basic knowledge of development trends in the field of architecture and construction,

- the student has basic knowledge necessary to understand the conditions of the design activity of a design engineer, which has a direct impact on the environment

- 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 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

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and formulate and justify opinions,- the student is able to communicate using various techniques in the professional environment and in other environments,

- 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 engineer and the related responsibility for the actions taken,

- the student is able to think and act in an entrepreneurial, creative and innovative way.

Course objective

- learning about the basic relations between human and the urbanized and natural environment,

- learning the basic issues related to architecture and construction as well as future models for their shaping,

- learning about the human, monumental scale,

- learning and improving basic tools and materials helpful in presenting the achieved solutions in the field of architecture and construction,

- practicing group work and finding out about different functions.

Course-related learning outcomes

Knowledge

- architectural design for the implementation of simple tasks, in particular: simple facilities taking into account the basic needs of users,

- universal design principles, including the ideas of sustainable development and age-friendly city

Skills

- make a critical analysis of the conditions, including the valorization of the land development and building conditions;

Social competences

- taking responsibility for shaping the natural environment and cultural landscape, including preserving 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: final work (essay) in the form of a written statement or in the form of a presentation on a selected issue concerning contemporary architecture and construction and problems related to the development of civilization. The correctness and completeness of statements on a given topic are assessed as well as the correct application of the basic

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research apparatus. An equivalent form of credit is a multiple-choice test consisting of 10 questions in the e-moodle system.

The basis for taking the credit is obtaining a 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

Wykład 1. Program and introduction

Wykład 2. Short story of sustainable architecture – selected issues part 1

Wykład 3. Short story of sustainable architecture – selected issues part 2

Wykład 4. Humanistic architecture

Wykład 5. Microinterventons - case study of Graubunden (Switzerland)

Wykład 6. Low-tech architecture

Wykład 6. Sm(art) City

Teaching methods

1. Lecture with multimedia presentation with elements of conversation.

2.eLearning Moodle (a system supporting the teaching process and distance learning)

3. Design exercises and consultations on solutions proposed by the student..

Bibliography

Basic

Alexander Ch. [2008] Język wzorców. Miasta, budynki, konstrukcja, Gdańskie Wydawnictwo Psychologiczne, Gdańsk

McCarther R., Palasmaa J. [2012] Understanding Architecture, Phaidon, Londyn

McHarg I. L. [1992], Design with Nature, John Willey and Sons, Kanada

Mostafavi M. Doherty G. [2016], Ecological Urbanism, Lars Muller Publishers

Rasmussen S. E. [2015] Odczuwanie architektury, wyd. Karakter, Kraków

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Additional

Architectural papers and magazines, Poznań University of Technology Scientific Journals, series Architecture and Urban Planning.

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,0
Classes requiring direct contact with the teacher	15	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) [1]	15	

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[1] delete or add other activities as appropriate