COURSE DESCRIPTION CARD - SYLLABUS

Course name
Thematic Lecture

Course

Field of study
Architecture

Year/Semester
II/3

Area of study (specialization)
-

Profile of study
general academic

Level of study
Second-cycle studies

Course offered in
Polish/English

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
30

Laboratory classes
0

Other (e.g. online)
0

Tutorials
0

Projects/seminars
0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:
prof. Sławomir Rosolski, Ph.D., D.Sc. Eng. Arch.

e-mail: slawomir.rosolski@put.poznan.pl

Responsible for the course/lecturer:
dr hab. inż. arch. Sławomir Rosolski, prof. PP

e-mail: slawomir.rosolski@put.poznan.pl

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

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

dr inż. arch. Mieczysław Kozaczko

e-mail: mieczyslaw.kozaczko@put.poznan.pl

mgr inż. arch. Krzysztof Frąckowiak

prof. dr hab. inż. arch. Piotr Marciniak

e-mail: piotr.marciniak@put.poznan.pl

dr hab. inż. arch. Radosław Barek, prof. PP

e-mail: radoslaw.barek@put.poznan.pl

zaproszeni goście

Prerequisites

• basic general knowledge regarding key architectural design issues

• basic technical knowledge in the field of architecture

• basic knowledge of development trends in architectural design

• basic knowledge necessary to understand social, economic, legal and

non-technical determinants of architectural design

• obtaining information from literature, databases and other properly selected sources, integrating information

• aggregation and interpretation, drawing conclusions, formulating and justifying opinions

• evaluation of simple, small-scale architectural solutions

• identification and formulation of practical tasks in the field of architectural design of

simple objects

• small-scale design of simple architectural objects

• understanding the need for lifelong learning; ability to inspire other people to learn

• awareness of the non-technical aspects and effects of engineering activities, including their impact on environment and the associated responsibility for the decisions taken

• the ability to cooperate and work in a group, taking different roles in it

• correct identification and resolution of dilemmas with regard to various spatial situations on an architectural scale

Course objective

• broadening the knowledge of contemporary, technical and non-technical processes essential in

the profession of an architect

• learning about issues related to the formation of advanced architectural assumptions and

future visions of how to shape them

• broadening the knowledge of the localization conditions of an architectural object, with

with particular emphasis on the issues of accessibility and location attractiveness as well as functional problems and socio-economic aspects of the location

• improving the skills of creative approach to the form, function and structure of the building in

spatial and cultural context

• broadening the knowledge of modern technologies used in architectural design

• improving the knowledge of the relations between the built environment and the user

• training the ability to prepare a presentation on one's own work

• perfecting methods of communication using various techniques in a broadly understood professional environment professional environment, coordination of project activities and organisation of implementation processes

Course-related learning outcomes

Knowledge

B.W3. the role and importance of the natural environment in architectural and urban design and spatial planning, as well as the need to shape spatial order, sustainable development, and the subject of environmental and cultural landscape threats;

B.W4. issues related to architectural, urban and spatial planning, such as technical infrastructure, communication, natural environment, landscape architecture, economic, legal and social conditions - necessary for understanding social, economic, ecological, natural, historical, cultural, legal and other non-technical determinants of engineering activities and sees the need to take them into account in architectural, urban and rural design and spatial planning;

B.W5. advanced issues of construction, construction technologies and installations, construction and building physics, covering key, complex issues in architectural, urban and planning design;

B.W6. technical and construction regulations;

B.W8. ways of communicating the idea of architectural, urban and planning projects and their development;

Skills

B.U1. integrate advanced knowledge from various areas of science, including history, history of architecture, history of art and protection of cultural goods, spatial management while solving complex engineering tasks;

B.U2. recognize the importance of non-technical aspects and effects of an architect's design activity, including its impact on the cultural and natural environment, and take responsibility for technical decisions made in the environment and for the transfer of cultural and natural heritage to future generations

B.U3. recognize systemic and non-technical aspects, including environmental, cultural, artistic, economic and legal aspects in the process of architectural, urban and planning design with a high degree of complexity;

B.U5. use properly selected advanced computer simulations, analyzes and information technologies, supporting architectural and urban design, as well as evaluate the obtained results and their usefulness in design, and draw constructive conclusions;

Social competences

B.S1. formulate and transfer information and opinions to the society on the achievements of architecture and town planning, their complex conditions and other aspects of the architect's activity;

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. The condition for completing the course is participation in lectures and obtaining a positive grade from final test

2. There will be two session of test, the second date is a resit

3. Students are allowed to take a test earlier provided that they have completed lecture series and obtaining the consent of the person responsible for the subject. This term is the first date for them

4. The resit test may be in a written, oral or written and oral form

Programme content

The aim of the series of Specialist Lectures is to disseminate knowledge about technical aspects and humanistic aspect of contemporary architecture, the relationship between space and man, the relationship between historical context and contemporary realizations. The lectures are obligatory for students in their final semester of studies. The universality of issues discussed during subsequent lectures assumes that the meetings will also be attended by students of lower semesters of WAPP, students of other faculties at PUT and all persons not connected with the university, who are interested in the issues discussed.

The following lectures cover the following topics:

• Presentation of technical solutions in the almost-zero-energy building of the Faculty of Architecture and Faculty of Management Engineering of Poznań University of Technology

Architecture and Management Engineering of the Poznań University of Technology

• Thermally activated ceilings

• Universal design

• Ergonomics of living space

• New technologies: energy efficiency in historical buildings

• New technologies: renovation of historical buildings

• Light - the matter for creating architecture

- Lighting techniques
- Interior acoustics - new standard requirements
- Interior acoustics in practice
- Passion = architecture
- Architecture by numbers
- Music in architecture

Teaching methods

The training cycle consists of 6 meetings. During each session two or three issues are presented. The first lecture is given by a WAPP lecturer, the next by an invited guest who develops the issue which was the subject of the first lecture in terms of practical, social and legal aspects.

2. Lectures have the form of multimedia presentations.

3. The structure and topics of lectures, program content and a list of basic and complementary literature are available on the ekursy.put.poznan.pl PUT platform, available to logged in users.

Bibliography

Basic

1. Alexander Ch., Język wzorców, GWP, 2008

2. Bańka A., Behawioralne podstawy projektowania architektonicznego, Gemini S.C., 1999

3. Hall E. T., Bezgłośny język, PIW, 1987

4. Hall E. T., Ukryty wymiar, Muza, 2009

5. Jodidio P., Architecture Now!, Taschen, 2011

6. Neufert E., Podręcznik projektowania architektonicznego, Arkady, 1995

7. Porębski M., Ikonosfera, PIW, 1987

8. Rewers E. (red.), Przestrzeń, filozofia, architektura, Humaniora, 1995

9. Witruwiusz, Dziesięć ksiąg o architekturze, PWN, 1956

10. Yi - Fu Tuan, Przestrzeń i miejsce, PIW, 1987

11.Żórawski J., O budowie formy architektonicznej, 1962

Additional

1. Bonenberg W., Przestrzeń publiczna w osiedlach mieszkaniowych, Metoda analizy społecznoprzestrzennej, WA Politechnika Poznańska, 2007

2. Bielecki Cz., Gra w miasto, Warszawa 1996

3. Contemporary British Architectural Drawing, Londyn 1993

4. Czarnecki W. Planowanie miast o osiedli. PWN. Warszawa. 1965

5. Eibl – Eibesfeldt I., Miłość i nienawiść, Logos, 1987

6. Hall E. T., Poza kulturą, PWN, 2001 7. Ingarden R., Książeczka o człowieku, PWN, 1987

7. Ingarden R., Książeczka o człowieku, PWN, 1987

8. Jencks C., Architektura późnego modernizmu i inne eseje, Arkady, 1989

9. Jodidio P., Architecture Now!, Taschen, 2011

10.Koch, W., Style w architekturze, Warszawa, 1996

11.Lorenz K., Regres człowieczeństwa, PIW, 1986

12.Nowa Karta Ateńska. Wizja miast XXI wieku. 2003

13.Ustawa Prawo Budowlane (Dz.U.)

14.Ustawa o planowaniu i zagospodarowaniu przestrzennym (Dz.U.)

15.Wejchert, K., Elementy kompozycji urbanistycznej, Warszawa 1974

16. Monographs of contemporary architects.

17. Renowned architectural magazines (Polish and foreign)

The current legal acts are available: http://isap.sejm.gov.pl/

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) [1]	30	1,0

[1] delete or add other activities as appropriate