



COURSE DESCRIPTION CARD - SYLLABUS

Course name

4. Icons of Architecture

Course

Field of study

Architecture

Area of study (specialization)

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Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

I/2

Profile of study

general academic

Course offered in

polish/english

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

Tutorials

0

Projects/seminars

0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr inż. arch. Piotr Zierke

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Prerequisites

- Knowledge: Student has explicit, well-grounded theoretical knowledge of the issues related to the selected issues of architecture, urban planning as well as landscape architecture,

- Knowledge: Student has basic knowledge for the understanding of social, economic, legal and other determinants outside the engineering activity considerations of architectural designing and urban planning,

- Skills: Student can acquire information from publications, data bases and other, also in English sources, can interpret the said information and draw conclusions as well as voice and justify opinions,

- Social Competences: Student understands the needs for lifelong learning,

- Social Competences: Student is aware of the social role of the architect and associated with it responsibility for decisions,



Course objective

- Gaining increased knowledge on selected specific issues of architectural design and urban planning and principles of sustainable physical planning.
- Learning the latest trends in architecture and urban planning, particularly innovative design techniques and constructional techniques.
- Learning the methods and ways to implement the latest advancements in the field of architecture and urban planning as well as disciplines related to field of study, including the process of forming buildings from the birth of design idea till the implementation of the objects.
- Prepare to carry out scientific research. Obtaining the theoretical knowledge necessary to elaborate research project on the course: Research-Project Design Studio B.

Course-related learning outcomes

Knowledge

A.W1. architectural design of various levels of complexity, from simple tasks to objects with complex functions in a complex context, in particular: simple facilities taking into account the basic needs of users, single and multi-family housing, service facilities in residential complexes, public facilities and their complexes, different scale and complexity in open landscapes or in an urban environment;

A.W6. advanced analysis methods, tools, techniques and materials necessary to prepare design concepts in an interdisciplinary environment, with particular emphasis on inter-branch cooperation;

A.W7. basic methods and techniques of conservation, modernization and supplementation of historic structures;

Skills

A.U7. make a critical analysis and evaluation of the project and the method of its implementation in the scope of modernization and supplementation of architectural and urban structures with cultural values;

A.U9. integrate information obtained from various sources, formulate their interpretation and critical, detailed analysis and draw conclusions from them, as well as formulate and justify opinions and demonstrate their relationship with the design process, based on the available scientific achievements in the discipline;

Social competences

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Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The course ends with a colloquium. There are two terms of colloquium, but the second term is a resist one. Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0.

Programme content



1. New National Gallery in Berlin. The creation of one of the last buildings constructed by Mies van der Rohe, including his innovative method of construction its structure. Crystallization of design ideas of Mies van der Rohe and his design experience which culmination was the New National Gallery. Innovative exhibition spaces in the building and so called garden of sculpture. The functionality of object.
2. Sydney Opera House. Idea of the construction of Sydney Opera House. Building location. The design competition – design requirements, jury vicissitudes, other works submitted for the competition. Idea of form, function and building construction of Opera House. Problems and challenges during the construction of the facility. Dismiss Jorn Utzon from position of chief designer of Opera House. Changes by Peter Hall. Other Jorn Utzon's projects.
3. The temples of light and water. Tadao Ando - crystallization of design ideas. Geometry in Ando architecture. The role of the walls. Light and shadow. Idea of emptiness. Temple of light. Temple of water. Religious forms in the architecture.
4. House over waterfall. Frank Lloyd Wright – design experience and previous implementation having an impact on form, function and structure of the building. Location. Idea. Construction – problems and executive mistakes. Surroundings of the house over waterfall. Interior.
5. The Jewish Museum in Berlin. The first Jewish Museum in Berlin. The idea of the new building. Architectural competition. Problems of design and construction. The idea of building by Daniel Libeskind. Object function. Form.
6. Lloyd's Building in London. Richard Rogers. The background of building's origin. The design idea. Location. Form, function and structure of the building. Problems and executive mistakes.
7. Colloquium

Teaching methods

Lecture:

- informative lecture,
- troubleshooting,
- didactic discussion related to the lecture.

Bibliography

Basic

- Libeskind D., Przełom: przygody w życiu i architekturze, Wydawnictwa Naukowo-Techniczne, Warszawa 2008
- Goldberger P., Counterpoint Daniel Libeskind, Birkhauser Verlag, Basel 2008



- Young J.E., At Memory's Edge: After-Images of the Holocaust in Contemporary Art and Architecture, Yale University Press, New Haven 2000
- McCarter R., Frank Lloyd Wright, Fallingwater, Bear Run, Pennsylvania 1935, Twentieth-century Houses, Phaidon, London 1999
- Copplestone T., Frank Lloyd Wright: Przegląd retrospektywny, Wydawnictwo Arkady, Warszawa 1998
- Drew Ph., Church on the Water, Hokkaido, Japan 1988, Church of the Light, Osaka, Japan 1989, Places of Worship, Phaidon, London 1999
- Furuyama M., Tadao Ando: 1941, Taschen, Koln 2006
- Watson R., Building a Masterpiece: The Sydney Opera House, Lund Humphries Publishers Ltd, London 2006
- Vandenberg M., „Ludwig Mies van der Rohe, New National Gallery, Berlin 1962-8”, Twentieth-Century Museums I, Architecture 3s, Phaidon, London 1999

Additional

- Zimmerman C., Mies Van Der Rohe: 1886-1969, Taschen, Koln 2006
- Wachter G., Mies Van Rohe's New National Gallery, Berlin, Nazraeli Press, Portland 1996
- Drew Ph., „Jørn Utzon, Sydney Opera House, Sydney 1957-73”, City Icons, Phaidon, London 1999
- Murray P., The Saga of Sydney Opera House: The Dramatic Story of the Design and Construction of the Icon of Modern Australia , Routledge, Oxford 2003
- Ando T., Tadao Ando: Light and Water, The Monacelli Press, New York 2003
- Brooks Pfeiffer B., Frank Lloyd Wright, Taschen, Koln 2007
- Feldman, Gerard, Fallingwater is No Longer Falling, STRUCTURE magazine, s. 46-50, September 2005
- Neuman S., Copans R., Le Musee Juif de Berlin, Entre les lignes, Arte France,2000

Breakdown of average student's workload

	Hours	ECTS
Total workload	28	1,0
Classes requiring direct contact with the teacher	1	0,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	0	0,0

¹ delete or add other activities as appropriate