



<ul style="list-style-type: none"> <li>▪ Getting to know the methods and ways to implement the latest advancements in the field of architecture and urban planning and disciplines related to field of study, including the process of creating buildings from the birth of design idea until the implementation of the objects.</li> <li>▪ Prepare to take on scientific research. Obtaining the theoretical knowledge necessary to elaborate research project on the course: Research-Project Design Studio B.</li> </ul>		
<b>Learning outcomes</b>		
<b>Knowledge:</b>		
number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
W01	has explicit, well-grounded theoretical knowledge of the issues related to the selected issues of architecture, urban planning and landscape architecture, supported by experience the most famous and influential designers of the 20 <sup>th</sup> century	<b>AU2_W01</b>
W02	Student has knowledge of development trends and most important achievements in architectural design and urban planning	<b>AU2_W02</b>
W03	Student has basic knowledge in the understanding of social, economic, legal and other determinants outside the engineering activity and has basic knowledge of quality management, including management of sustainable city development	<b>AU1_W03</b>
W04	Student has detailed knowledge of selected issues of the architectural design and urban planning and can use of knowledge in the fields of study related to his/her field of study	<b>AU2_W12 T2A_W02</b>
<b>Skills:</b>		
number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
U01	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	<b>AU2_U01</b>
U02	Student can specify the directions of further education and can undertake the self-education process	<b>AU2_U03</b>
U03	can assess the usefulness and the usability of the new achievements in architecture and urban planning and related fields	<b>AU2_U06</b>
<b>Social competences:</b>		
number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
K01	Student understands the need of continuous updating and supplementing his/her knowledge as well as the need of the improvement of professional, personal and social competences	<b>AU2_K04</b>

K03	Student can respectively determine priorities for the execution of goals set by himself/herself or by others; is fully aware of the importance of professional conduct;	<b>AU2_K05</b>
<b>Methods of check the learning outcomes</b>		
A series of lectures on the course: <b>ICONS OF ARCHITECTURE</b> is a theoretical basis for conducting a research project as part of the course: Research-Project Design Studio. The course ends with credit. There are two terms of credit, but the second term is resist credit.		
<p><b>Forming evaluation:</b> active participation in lectures confirmed the presence of at least 3 of the 7/8 lectures.</p> <p>Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0.</p>		
<p><b>Summary score:</b></p> <p>Assessment for the preparation of a short research elaborate or assessment of colloquium includes the contents provided in lectures.</p> <p>Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0.</p>		
<b>Course contents</b>		
<ol style="list-style-type: none"> <li>1. <b>New National Gallery in Berlin.</b> 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 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.</li> <li>2. <b>Sydney Opera House.</b> 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 of Peter Hall. Other Jorn Utzon's projects.</li> <li>3. <b>The temples of light and water.</b> 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.</li> <li>4. <b>House over waterfall.</b> 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.</li> <li>5. <b>The Jewish Museum in Berlin.</b> The first Jewish Museum in Berlin. The idea of the new building. Architectural competition. Problems of design and construction. The idea of building of Daniel Libeskind. Object function. Form.</li> <li>6. <b>Lloyd's Building in London.</b> Richard Rodgers. The background of building's origin. The design idea. Location. Form, function and structure of the building. Problems and executive mistakes.</li> <li>7. Colloquium.</li> </ol>		
<p><b>Basic bibliography:</b></p>		
<ul style="list-style-type: none"> <li>- Libeskind D., Przełom: przygody w życiu i architekturze, Wydawnictwa Naukowo-Techniczne, Warszawa 2008</li> <li>- Goldberger P., Counterpoint Daniel Libeskind, Birkhauser Verlag, Basel 2008</li> <li>- Young J.E., At Memory's Edge: After-Images of the Holocaust in Contemporary Art and Architecture, Yale University Press, New Haven 2000</li> <li>- McCarter R., Frank Lloyd Wright, Fallingwater, Bear Run, Pennsylvania 1935, Twentieth-century Houses, Phaidon, London 1999</li> <li>- Copplestone T., Frank Lloyd Wright: Przegląd retrospektywny, Wydawnictwo Arkady, Warszawa 1998</li> </ul>		

- 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

**Complementary bibliography:**

- 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

**The workload of student**

Form of activity	Hours	ECTS
Total workload	28	1
Activities that require individual contact with the teacher	1	0
Activities of practical	0	0

**Balance the workload of the average student**

Form of activity	Number of hours
participation in lectures	15 h
participation in classes/ laboratory classes (projects)	0
preparation for classes/ laboratory classes	0
preparation to colloquium/final review	12 h
participation in consultation related to realization of learning process	1 h
preparation to the exam	0 h
attendance at exam	0 h

Total workload of student:

**1 ECTS credit**

**28 h**

As part of this specified student workload:

- activities that require direct participation of teachers:

15 h + 1 h = 16 h

1 ECTS credit