

| <b>COURSE DESCRIPTION CARD</b>  |  |   |   |
|---|--|---|---|
| The name of the course/module<br><b>RESEARCH-PROJECT DESIGN STUDIO - ICONS OF ARCHITECTURE</b>  |  |   | Code<br><b>A_K_2.2_007</b>                    |
| Main field of study<br><b>ARCHITECTURE</b>  | Educational profile<br>(general academic, practical)<br><b>general academic</b>  |   | Year / term<br><b>I/2</b>                     |
| Specialization  | Language of course:<br><b>polish/english</b>   |   | Course (core, elective)<br><b>core</b>        |
| Hours<br>Lectures <b>15</b> Classes:      Laboratory classes:      Projects / seminars:   |  |   | Number of points<br><b>1</b>                  |
| Level of qualification:<br><b>II</b>  | Form of studies<br>(full-time studies/part-time studies)<br><b>Full-time studies</b>   | Educational area(s)<br><b>Technical Sciences</b>  | ECTS division (number and %)<br><b>1 100%</b> |
| Course status in the studies' program (basic, directional, other)<br><b>directional</b>   |  | (general academic, from a different major)<br><b>general academic</b>   |   |
| Lecture responsible for the course/lecturer:<br><b>dr inż. arch. Piotr Zierke</b><br>e-mail: piotr.zierke@put.poznan.pl<br>Faculty of Architecture<br>ul. Nieszawska 13C, 61-021 Poznań<br>tel.: 061 665 32 60  |  |   |   |
| <b>Prerequisites defined in terms of knowledge, skills, social competences:</b>   |  |   |   |
| 1   | <b>Knowledge:</b>  | <ul style="list-style-type: none"> <li>▪ Student has explicit, well-grounded theoretical knowledge of the issues related to the selected issues of architecture, urban planning as well as landscape architecture,</li> <li>▪ 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,</li> </ul> |   |
| 2   | <b>Skills:</b>   | <ul style="list-style-type: none"> <li>• 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</li> </ul>   |   |
| 3   | <b>Social competences:</b>   | <ul style="list-style-type: none"> <li>▪ Student understands the needs for lifelong learning,</li> <li>▪ Student is aware of the social role of the architect and associated with it responsibility for decisions,</li> </ul>   |   |
| <b>Objective of the course:</b>   |  |   |   |
| <ul style="list-style-type: none"> <li>▪ Gaining increased knowledge on selected specific issues of architectural design and urban planning and principles of sustainable physical planning.</li> <li>▪ Learning the latest trends in architecture and urban planning, particularly innovative design techniques and constructional techniques.</li> <li>▪ 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.</li> <li>▪ Prepare to carry out 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>   |  |   |   |
| W01   | has knowledge required for the understanding of social, historical, natural, economic, legal and other determinants outside the engineering field of the engineering activities and has basic knowledge of shaping the environment of man with the account for the relations between people and architectural objects and the surrounding space; |   | <b>AU2_W03</b>                                |
| W02   | Student has detailed knowledge connected with architectural designing, town planning and spatial planning.   |   | <b>AU2_W17</b>                                |

| <b>Skills:</b>  |  |                |
|---|--|----------------|
| U01   | Student can acquire information from field specific literature, data bases and other properly selected sources in Polish and English, can integrate the acquired information, interpret and critically assess the said information, as well as draw conclusions and come up with opinions supported with satisfactory reasons; | <b>AU2_U01</b> |
| U02   | Student can assess the usefulness of the new scientific and research achievements and apply them in the field of architecture and town planning.   | <b>AU2_U10</b> |
| <b>Social competences:</b>  |  |                |
| 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 is aware of the importance of non-technical aspects and effects of engineering activities, in this impact upon the environment and liability for environment affecting decisions.  | <b>AU2_K05</b> |
| <b>The evaluation methods:</b>  |  |                |
| <p>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> <p><b>Formative assessment:</b> active participation in lectures confirmed by presence of at least 3 of the 7/8 lectures.<br/>Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0.</p> <p><b>Summative assessment:</b><br/>Grade for the preparation of a short research elaborate or grade for test includes the contents provided in lectures.<br/>Final grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0.</p> <p><b>Positive grade for module depends on achieved by student all learning outcomes specified in the syllabus.</b></p>   |  |                |
| <b>Course contents</b>  |  |                |
| <ol style="list-style-type: none"> <li><b>1. 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 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.</li> <li><b>2. 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 by Peter Hall. Other Jorn Utzon's projects.</li> <li><b>3. 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><b>4. 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><b>5. 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 by Daniel Libeskind. Object function. Form.</li> <li><b>6. 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><b>7. Test</b></li> </ol> |  |                |
| <b>Basic bibliography:</b>  |  |                |
| <ul style="list-style-type: none"> <li>- Libeskind D., Przelom: przygody w zyciu 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>- Coppelstone T., Frank Lloyd Wright: Przegląd retrospektywny, Wydawnictwo Arkady, Warszawa 1998</li> <li>- Drew Ph., Church on the Water, Hokkaido, Japan 1988, Church of the Light, Osaka, Japan 1989, Places of Worship, Phaidon, London 1999</li> <li>- Furuyama M., Tadao Ando: 1941, Tashen, Koln 2006</li> <li>- Watson R., Building a Masterpiece: The Sydney Opera House, Lund Humphries Publishers Ltd, London 2006</li> <li>- Vandenberg M., „Ludwig Mies van der Rohe, New National Gallery, Berlin 1962-8”, Twentieth-Century Museums I, Architecture 3s, Phaidon, London 1999</li> </ul>   |  |                |
| <b>Supplementary bibliography:</b>  |  |                |
| <ul style="list-style-type: none"> <li>- Zimmerman C., Mies Van Der Rohe: 1886-1969, Taschen, Koln 2006</li> <li>- Wachter G., Mies Van Rohe's New National Gallery, Berlin, Nazraeli Press, Portland 1996</li> </ul>   |  |                |

- 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

| <b>The student workload</b>                          |              |             |
|--|--------------|-------------|
| <b>Form of activity</b>                              | <b>Hours</b> | <b>ECTS</b> |
| Overall expenditure                                  | 28           | 1           |
| Classes requiring an individual contact with teacher | 1            | 0           |
| Practical classes                                    | 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             |

Overall expenditure 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