



Subject card

|   |   |  |  |                                     |  |   |     |  |  |  |
|---|---|--|--|-------------------------------------|--|---|-----|--|--|--|
| Subject name and code                       | Construction project II, PG_00055845  |  |  |                                     |  |   |     |  |  |  |
| Field of study                              | Architecture  |  |  |                                     |  |   |     |  |  |  |
| Date of commencement of studies             | October 2021  |  | Academic year of realisation of subject  |                                     | 2022/2023  |   |     |  |  |  |
| Education level                             | first-cycle studies   |  | Subject group  |                                     | Optional subject group<br>Subject group related to scientific research in the field of study |   |     |  |  |  |
| Mode of study                               | Full-time studies   |  | Mode of delivery   |                                     | at the university  |   |     |  |  |  |
| Year of study                               | 2   |  | Language of instruction  |                                     | Polish   |   |     |  |  |  |
| Semester of study                           | 4   |  | ECTS credits   |                                     | 3.0  |   |     |  |  |  |
| Learning profile                            | general academic profile  |  | Assessment form  |                                     | assessment   |   |     |  |  |  |
| Conducting unit                             | Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture  |  |  |                                     |  |   |     |  |  |  |
| Name and surname of lecturer (lecturers)    | Subject supervisor  |  | dr inż. arch. Marek Sztafrowski  |                                     |  |   |     |  |  |  |
|   | Teachers  |  | dr inż. arch. Stefan Niewitecki<br>mgr inż. Tomasz Zybała<br>dr inż. arch. Marek Sztafrowski<br>mgr inż. arch. Joanna Wojtas<br>dr inż. arch. Joanna Kabrońska   |                                     |  |   |     |  |  |  |
| Lesson types and methods of instruction     | Lesson type   | Lecture  | Tutorial   | Laboratory                          | Project  | Seminar   | SUM |  |  |  |
|   | Number of study hours   | 0.0  | 0.0  | 0.0                                 | 45.0   | 0.0   | 45  |  |  |  |
| E-learning hours included: 0.0              |   |  |  |                                     |  |   |     |  |  |  |
| Learning activity and number of study hours | Learning activity   | Participation in didactic classes included in study plan |  | Participation in consultation hours |  | Self-study  | SUM |  |  |  |
|   | Number of study hours   | 45   |  | 5.0                                 |  | 25.0  | 75  |  |  |  |
| Subject objectives                          | Knowledge of technical issues related to the construction technical project. Knowledge of basic issues related to reinforced concrete and masonry structures, and relations between loads and stresses and deformations in simple elements made of reinforced concrete. |  |  |                                     |  |   |     |  |  |  |
| Learning outcomes                           | Course outcome  |  | Subject outcome  |                                     |  | Method of verification  |     |  |  |  |
|   | [K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design           |  | Knowledge and understanding of: construction and building issues related to building design; principles, solutions, constructions and building materials applied to perform simple tasks in the field of architectural design. |                                     |  | [SW3] Assessment of knowledge contained in written work and projects<br>[SW1] Assessment of factual knowledge   |     |  |  |  |
|   | [K6_U04] is able to use analytical methods to formulate and solve project tasks   |  | Ability to design an architectural object or simple urban layout in accordance with technical principles.  |                                     |  | [SU5] Assessment of ability to present the results of task<br>[SU3] Assessment of ability to use knowledge gained from the subject<br>[SU1] Assessment of task fulfilment |     |  |  |  |

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| Subject contents                                       | Basic issues related to reinforced concrete and masonry structures.Pre-design works.Architectural,construction and technical design. |   |                               |  |  |
| Prerequisites and co-requisites                        |  |   |                               |  |  |
| Assessment methods and criteria                        | Subject passing criteria   | Passing threshold   | Percentage of the final grade |  |  |
|  | building structure project   | 100.0%  | 50.0%                         |  |  |
| Recommended reading                                    | Basic literature   | Panas J. red., Nowy poradnik majstra budowlanego, Arkady 2012.<br>Żenczykowski W., Budownictwo ogólne, Warszawa, Arkady, 1986.<br>Różycki S., Budownictwo ogólne 3-4, Gdańsk 1966.<br>Budownictwoogólne, T 1 Materiały i wyroby budowlane, Warszawa Arkady, 2007.<br>Budownictwo ogólne, T 3 Elementy budynków. Podstawyprojektowania, Warszawa Arkady, 2008.<br>Budownictwo ogólne, T 4Konstrukcja budynków, Warszawa Arkady, 2014.<br>Łapko A.:Projektowanie konstrukcji żelbetowych, Arkady, Warszawa 2001.<br>Łapko A., Jensen B. Ch.: Podstawy projektowania i algorytmy obliczeń konstrukcji żelbetowych, Arkady, Warszawa 2005.<br>PNB-03264/2002 Konstrukcje betonowe, żelbetowe i sprężone. Obliczenia statyczne i projektowanie PN-B-03002/1999 Konstrukcje murowe niezbrojone. Projektowanie i obliczenia statyczne. |                               |  |  |
|  | Supplementary literature   | P. Hyks, M. Gaborik, O. Vrana, Schody, Arkady 1984.<br>Markiewicz Przemysław, Budownictwo ogólne dla architektów, Archi-Plus 2011(wyd. 4).<br>Markiewicz Przemysław, Detale projektowe dla architektów, Archi-Plus 2010 (wyd. 1).<br>Hola J., Pietraszek P., Schabowicz K.: Obliczenia budynków wzoroszonych tradycyjnie, Dolnośląskie Wydawnictwo Edukacyjne, Wrocław 2006.<br>Starosolski W., Konstrukcje żelbetowe, Wydawnictwo Naukowe PWN, W-wa 2007.<br>Kobiak J., Stachurski W.: Konstrukcje żelbetowe, Arkady, Warszawa 1984.   |                               |  |  |
|  | eResources addresses   | Adresy na platformie eNauczanie:  |                               |  |  |
| Example issues/example questions/tasks being completed | Use of technology in architectural design, related to the construction and technical design.   |   |                               |  |  |
| Work placement   | Not applicable   |   |                               |  |  |