



Subject card

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|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------|-----|--|--|--|
| Subject name and code | Building structures and technologies I, PG_00052794 | | | | | | | | | |
| 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 | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | e-learning | | | | | |
| Year of study | 2 | Language of instruction | | Polish | | | | | | |
| Semester of study | 4 | ECTS credits | | 2.0 | | | | | | |
| 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. Marek Sztafrowski mgr inż. arch. Joanna Wojtas | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM | | | |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 | | | |
| E-learning hours included: 30.0 | | | | | | | | | | |
| 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 | 30 | | 2.0 | | 18.0 | 50 | | | |
| 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. | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | | | | |
| Subject contents | Gainging knowledge of interdisciplinary design. | | | | | | | | | |
| | [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject | | | | | | | | | |
| Prerequisites and co-requisites | Basic issues related to reinforced concrete and masonry structures. Pre-design works. Architectural, construction and technical design. | | | | | | | | | |

| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|--|
| | exam | 51.0% | 100.0% | | |
| Recommended reading | Basic literature | Panas J. red., Nowy poradnik majstra budowlanego, Arkady 2012.Żenczykowski W., Budownictwo ogólne, Warszawa, Arkady, 1986.Różycki S., Budownictwo ogólne 3-4, Gdańsk 1966Budownictwo ogólne, T 1 Materiały i wyroby budowlane, WarszawaArkady, 2007Budownictwo ogólne, T 3 Elementy budynków.Podstawy projektowania, Warszawa Arkady, 2008Budownictwo ogólne, T 4 Konstrukcja budynków, Warszawa Arkady, 2014Łapko A.: Projektowanie konstrukcji żelbetowych, Arkady, Warszawa2001Łapko A., Jensen B. Ch.: Podstawy projektowania i algorytmy obliczeńkonstrukcji żelbetowych, Arkady, Warszawa 2005.PNB-03264/2002 Konstrukcje betonowe, żelbetowe i sprężone.Obliczenia statyczne i projektowanie.PN-B-03002/1999 Konstrukcje murowe niezbrojone. Projektowanie iobliczenia statyczne. | | | |
| | Supplementary literature | P. Hyks, M. Gaborik, O. Vrana, Schody, Arkady 1984Markiewicz Przemysław, Budownictwo ogólne dla architektów, Archi-Plus 2011 (wyd. 4)Markiewicz Przemysław, Detale projektowe dla architektów, Archi-Plus2010 (wyd. 1)Hota J., Pietraszek P., Schabowicz K.: Obliczenia budynkówwnoszonych tradycyjnie, Dolnośląskie WydawnictwoEdukacyjne,Wrocław 2006.Starosolski W., Konstrukcje żelbetowe, Wydawnictwo Naukowe PWN,W-wa 2007. Kobiak J., Stachurski W.: Konstrukcjeżelbetowe, Arkady,Warszawa 1984. | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | |
| Example issues/ example questions/ tasks being completed | Use of technology in architectural design, related tothe construction and technical design. | | | | |
| Work placement | Not applicable | | | | |