



Subject card

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| Subject name and code | Building Construction, PG_00048187 | | | | | | |
| Field of study | Civil Engineering | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | 2022/2023 | | |
| Education level | first-cycle studies | | Subject group | | Optional subject group | | |
| Mode of study | Part-time studies | | Mode of delivery | | at the university | | |
| Year of study | 3 | | Language of instruction | | Polish | | |
| Semester of study | 5 | | ECTS credits | | 7.0 | | |
| Learning profile | general academic profile | | Assessment form | | exam | | |
| Conducting unit | Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Maciej Niedostatkiwicz | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 10.0 | 0.0 | 15.0 | 0.0 | 55 |
| | 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 | 55 | | 7.0 | | 113.0 | 175 |
| Subject objectives | Acquisition of knowledge in the field of construction of housing and communal construction facilities and the basics of designing facilities and construction works, as well as managing construction works; getting acquainted with technologies and principles of construction organization, computer techniques and modern technologies; developing the ability to identify significant problems in the construction industry; preparing a graduate to work in independent positions as well as team work and education at the second degree of studies. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W06] knows the rules of constructing and dimensioning of building elements of: steel, reinforced concrete, wood, masonry. | | The student knows the principles of constructing and dimensioning the elements of building structures: metal, reinforced concrete, wooden, masonry. | | | | |
| | [K6_U09] can read architectural, geodetical and construction drawings, is able to prepare engineering drawing using selected CAD software | | The student can read architectural, construction and geodetic drawings and is able to prepare graphic documentation in the environment of selected CAD programs. | | | | |
| | [K6_U06] can design steel, concrete (including reinforced), wood and masonry constructions and its elements | | The student can design selected elements and typical metal, reinforced concrete, composite, wooden and brick structures. | | | | |
| | [K6_W12] Has basic knowledge on building physics, including heat and moisture migration in buildings, acoustics and energy demand | | The student knows the basics of building physics regarding the migration of heat and moisture in buildings, their acoustics and determining the energy demand of buildings. | | | | |
| Subject contents | Basic knowledge of law in construction. Basic definitions of general construction. Requirements for building and construction drawings. Structural systems. Dimensional coordination in buildings. Basic information about technical conditions for buildings and their location. Initial information about walls, window and door lintels, ceilings, flat roofs, terraces, balconies, loggias and stairs. | | | | | | |
| Prerequisites and co-requisites | Completion of the course General construction with building physics II. | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | Term work | | 60.0% | | 50.0% | | |
| | Exam | | 60.0% | | 50.0% | | |

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| Recommended reading | Basic literature | 1. Kobiak J., Stachurski W.: Konstrukcje żelbetowe t.1 Warszawa: Arkady 1984. 2. Michalak H., Pyrak S., Domy jednorodzinne konstruowanie i obliczenia: Arkady 2005. 3. Niedostatkiwicz M., Majewski T., Skuza M., Bobiński J.: Budownictwo ogólne Katalog rozwiązań konstrukcyjno materiałowych, Skrypt PG. 4. Pierzchlewicz J., Jarmontowicz R.: Budynki murowane. Warszawa: Arkady 1994. |
| | Supplementary literature | 1. Żenczykowski W.: Budownictwo ogólne, t. 2/1. Warszawa: Arkady 1990 2. Praca zbiorowa: Poradnik majstra budowlanego. Warszawa: Arkady 1985. 3. Praca zbiorowa: Poradnik inżyniera i technika budowlanego, t. V. Warszawa: Arkady 1986. 4. Prawo budowlane |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |