

GDAŃSK UNIVERSITY

Subject card

| Subject name and code | GENERAL BUILDING TECHNOLOGY I, PG_00052752 | | | | | | | | |
|--|--|--|---|-------------------------------------|--------|--|---------|-----|--|
| Field of study | Architecture | | | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | | 2020/2021 | | | |
| 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 | | | at the university | | | |
| Year of study | 1 | | Language of instruction | | | Polish | | | |
| Semester of study | 1 | | ECTS credits | | | 3.0 | | | |
| Learning profile | general academic profile | | Assessmer | sessment form | | | exam | | |
| Conducting unit | Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture | | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. arch. Bogusława Konarzewska | | | | | | | |
| | Teachers | | dr inż. arch. Bogusława Konarzewska | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 15.0 | 30.0 | 0.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| | Adresy na platformie eNauczanie: Budownictwo I: Materiały Budowlane, 2020/21 - Moodle ID: 7137 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7137 | | | | | | | | |
| 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 | Student becomes acquainted with main buidling materials. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U04] is able to use analytical methods to formulate and solve project tasks | | | | | [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task | | | |
| | [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 | | building materials, describes properties and indicates typical applications of basic building | | | [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects | | | |

| Subject contents | Introduction. Classification of building materials and products used in architecture. The regulations concerning the particular application of building materials. Demands posed for building materials and products, general features characterizing building materials. General classification of building materials and products used in architecture: 1. Naturals and stones. 2. Woods and products of wood. 3. Ceramics. 4. Concrete. 5. Cements. 6. Glass and glass products. 7. Metals (metal alloys). 8. Isolating materials termal and acqustic. 9. Material for damp and hydro isolation. 10. Paints. 11. Plastics. 12. Innovative building materials. 13. Building materials. 14. Energy-efficient materials and technologies. Practical approach to building materials harmonizing with the lectures programme. | | | | | | |
|--|---|--|--|--|--|--|--|
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria design exercises Exam | Passing threshold 57.0% 58.0% | Percentage of the final grade 35.0% | | | | |
| Recommended reading | Basic literature Supplementary literature | Zenczykowski W., Budownictwo ogolne t. 1: materialy i wyroby budowlane, Arkady, Warszawa 1992. Stefanczyk B., Budownictwo ogolne. t. 1 Materialy i wyroby budowlane / Arkady, Warszawa, 2010. E. Osiecka E., Materiały budowlane. Kamień - ceramika - szkło OWPW 2010, Materiały budowlane. Spoiwa mineralne - kruszywa OWPW 2005, Materiały budowlane. Tworzywa sztuczne OWPW Warszawa 2005. Panas J. Nowy poradnik majstra budowlanego. Arkady, Warszawa, 2005. | | | | | |
| | | Markiewicz M., Kształtowanie architektury, Wydawnictwo: Archi- Plus 2006. Lewandowski Witold M. Proekologiczne odnawialne zrodla energii, Wydawnictwa Naukowo-Techniczne, Warszawa 2007. | | | | | |
| | eResources addresses Uzupełniające Budownictwo I: Materiały Budowlane, 2020/21 - Moodle ID: 7 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=713 | | | | | | |
| Example issues/ example questions/ tasks being completed | Report from a visit to the construction site - characterize the materials used earlier in class, take pictures, provide a comment, present to the group.Acquaintance with the next generation of thermal insulation materials, analysis of their applications within building structures, individual drawing of details using these materials.Drawing exercises on the use of specific building materials. | | | | | | |
| Work placement | Not applicable | | | | | | |