



## Subject card

|   |  |  |   |                                     |                                       |            |     |
|---|--|--|---|-------------------------------------|---------------------------------------|------------|-----|
| Subject name and code                       | , PG_00041522  |  |   |                                     |                                       |            |     |
| Field of study                              | Civil Engineering  |  |   |                                     |                                       |            |     |
| Date of commencement of studies             | February 2025  |  | Academic year of realisation of subject |                                     | 2025/2026                             |            |     |
| Education level                             | second-cycle studies   |  | Subject group                           |                                     | Optional subject group                |            |     |
| Mode of study                               | Full-time studies  |  | Mode of delivery                        |                                     | at the university                     |            |     |
| Year of study                               | 1  |  | Language of instruction                 |                                     | English                               |            |     |
| Semester of study                           | 2  |  | ECTS credits                            |                                     | 3.0                                   |            |     |
| Learning profile                            | general academic profile   |  | Assessment form                         |                                     | assessment                            |            |     |
| 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. Michał Nitka               |                                     |                                       |            |     |
|   | Teachers   |  |   |                                     |                                       |            |     |
| Lesson types and methods of instruction     | Lesson type  | Lecture  | Tutorial                                | Laboratory                          | Project                               | Seminar    | SUM |
|   | Number of study hours  | 0.0  | 0.0                                     | 0.0                                 | 0.0                                   | 30.0       | 30  |
|   | 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  | 30   |   | 5.0                                 |                                       | 40.0       | 75  |
| Subject objectives                          | Knowledge with research works and technical opinions performed in chair.   |  |   |                                     |                                       |            |     |
| Learning outcomes                           | Course outcome   |  | Subject outcome                         |                                     | Method of verification                |            |     |
|   | [K7_W05] has knowledge about business activity specific for construction sector; understands principles of financial economy of companies, knows rules of defining quality management procedures in a construction company; has knowledge about optimisation of building enterprises and existing risk and uncertainty |  |   |                                     |                                       |            |     |
|   | [K7_W09] knows advanced methods of building physics with applications in heat and moisture migration in buildings, energy demand for buildings and its acoustics   |  |   |                                     | [SW1] Assessment of factual knowledge |            |     |
|   | [K7_U12] can calculate and analyse the energy balance of a building  |  |   |                                     | [SU1] Assessment of task fulfilment   |            |     |
|   | [K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to support the proffesional ethos of a civil engineer  |  |   |                                     |                                       |            |     |
|   | [K7_W10] knows modern building materials as well as technologies and methods of its manufacturing and production of construction elements  |  |   |                                     | [SW1] Assessment of factual knowledge |            |     |
| Subject contents                            | Topics of research works and technical opinions in chair.  |  |   |                                     |                                       |            |     |
| Prerequisites and co-requisites             |  |  |   |                                     |                                       |            |     |

|  |   |                                  |                               |
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| Assessment methods and criteria                                | Subject passing criteria                | Passing threshold                | Percentage of the final grade |
|  | Presence                                | 55.0%                            | 100.0%                        |
| Recommended reading  | Basic literature                        | Lack                             |                               |
|  | Supplementary literature                | Lack                             |                               |
|  | eResources addresses                    | Adresy na platformie eNauczanie: |                               |
| Example issues/<br>example questions/<br>tasks being completed | Research topics proceeded in department |                                  |                               |
| Work placement   | Not applicable                          |                                  |                               |

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