



## Subject card

|                                             |                                                                                                                                                                                                                             |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Engineering Drawing, PG_00042609                                                                                                                                                                                            |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| Field of study                              | Environmental Engineering                                                                                                                                                                                                   |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| 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                                                                                                                      |            |     |
| Mode of study                               | Part-time studies                                                                                                                                                                                                           | Mode of delivery                                                              |          |                                     | at the university                                                                                                                                                   |            |     |
| Year of study                               | 1                                                                                                                                                                                                                           | Language of instruction                                                       |          |                                     | Polish                                                                                                                                                              |            |     |
| Semester of study                           | 1                                                                                                                                                                                                                           | ECTS credits                                                                  |          |                                     | 4.0                                                                                                                                                                 |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                                    | Assessment form                                                               |          |                                     | assessment                                                                                                                                                          |            |     |
| Conducting unit                             | Department of Metal Structures -> Faculty of Civil and Environmental Engineering                                                                                                                                            |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                          | dr inż. Wojciech Migda                                                        |          |                                     |                                                                                                                                                                     |            |     |
|                                             | Teachers                                                                                                                                                                                                                    | dr inż. Wojciech Migda<br>dr inż. Emilia Miszewska<br>dr inż. Patryk Deniziak |          |                                     |                                                                                                                                                                     |            |     |
| Lesson types and methods of instruction     | Lesson type                                                                                                                                                                                                                 | Lecture                                                                       | Tutorial | Laboratory                          | Project                                                                                                                                                             | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                       | 12.0                                                                          | 10.0     | 0.0                                 | 5.0                                                                                                                                                                 | 0.0        | 27  |
|                                             | E-learning hours included: 0.0                                                                                                                                                                                              |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| Adresy na platformie eNauczanie:            |                                                                                                                                                                                                                             |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| 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                                                                                                                                                                                                       | 27                                                                            |          | 5.0                                 |                                                                                                                                                                     | 70.0       | 102 |
| Subject objectives                          | The aim of this course is to present the technical drawing basics as used in civil and structural engineering.                                                                                                              |                                                                               |          |                                     |                                                                                                                                                                     |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                              | Subject outcome                                                               |          |                                     | Method of verification                                                                                                                                              |            |     |
|                                             | [K6_W16] knows the rules of descriptive geometry and technical drawing regarding the recording and reading of architectural drawings, construction and surveying drawings, as well as their preparation with the use of CAD | Basic knowledge in the field of technical drawings and CAD software.          |          |                                     | [SW1] Assessment of factual knowledge                                                                                                                               |            |     |
|                                             | [K6_U07] can read architectural, construction and geodesy drawings, and can use the known computer programs to prepare a drawing part of technical documentation for the sanitary industry                                  | Basic abilities to read and create technical drawings.                        |          |                                     | [SU4] Assessment of ability to use methods and tools<br>[SU3] Assessment of ability to use knowledge gained from the subject<br>[SU1] Assessment of task fulfilment |            |     |

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| Subject contents                                               | Technical writing<br><br>Drawing formats<br><br>Scales<br><br>Line types<br><br>Isometric views<br><br>Floor-plans and cross-sections<br><br>Dimensioning<br><br>Symbols used in architectural and structural drawings |                                                                                      |                               |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                        |                                                                                      |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                               | Passing threshold                                                                    | Percentage of the final grade |
|                                                                | Project                                                                                                                                                                                                                | 60.0%                                                                                | 50.0%                         |
|                                                                | Test                                                                                                                                                                                                                   | 60.0%                                                                                | 50.0%                         |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                       | Maj T.: Rysunek techniczny budowlany. WSiP, Warszawa 2013                            |                               |
|                                                                | Supplementary literature                                                                                                                                                                                               | Miśniakiewicz E., Skowroński W.: Rysunek techniczny budowlany. Arkady, Warszawa 2008 |                               |
|                                                                | eResources addresses                                                                                                                                                                                                   |                                                                                      |                               |
| Example issues/<br>example questions/<br>tasks being completed |                                                                                                                                                                                                                        |                                                                                      |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                         |                                                                                      |                               |