

## Subject card

| Subject name and code                       | Apprenticeship, PG_00050088   |   |   |                                     |        |  |         |          |  |  |
|---|---|---|---|-------------------------------------|--------|--|---------|----------|--|--|
| Field of study                              | Environmental Engineering   |   |   |                                     |        |  |         |          |  |  |
| Date of commencement of studies             | October 2021  |   | Academic year of realisation of subject   |                                     |        | 2023/2024  |         |          |  |  |
| 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                           | 6   |   | ECTS credits  |                                     |        | 6.0  |         |          |  |  |
| Learning profile                            | general academic profile  |   | Assessment form   |                                     |        | assessment   |         |          |  |  |
| Conducting unit                             | Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering  |   |   |                                     |        |  |         |          |  |  |
| Name and surname                            | Subject supervisor dr hab. inż. Eliza Kulbat  |   |   |                                     |        |  |         |          |  |  |
| of lecturer (lecturers)                     | Teachers  |   |   |                                     |        |  |         |          |  |  |
| Lesson types and methods of instruction     | Lesson type   | Lecture                                     | Tutorial  | Laboratory                          | Projec | t  | Seminar | SUM      |  |  |
|   | Number of study hours   | 0.0   | 0.0   | 0.0                                 | .0 0.0 |  | 0.0     | 0        |  |  |
|   | E-learning hours included: 0.0  |   |   |                                     |        |  |         |          |  |  |
|   | Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11013  |   |   |                                     |        |  |         |          |  |  |
| Learning activity and number of study hours | Learning activity   | Participation in<br>classes include<br>plan |   | Participation in consultation hours |        | Self-study   |         | SUM      |  |  |
|   | Number of study hours   | 0   |   | 0.0                                 |        | 160.0  |         | 160      |  |  |
| Subject objectives                          | Getting to know the methods of management, operation, design and execution in environmental engineering.  |   |   |                                     |        |  |         |          |  |  |
| Learning outcomes                           | Course outcome Subject outcome Method of verification   |   |   |                                     |        |  |         | fication |  |  |
|   | [K6_U14] can organize, estimate executive construction works (installation) in accordance with the principles of construction technology and organization, apply the principles of safety and health at work during the implementation of engineering tasks   |   | The student knows how to organize, cost estimate installation works and apply health and safety rules.  |                                     |        | [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task |         |          |  |  |
|   | [K6_K01] can think and act in a creative and enterprising way; can set priorities for the implementation of an individual or group task; understands the need for continuous training and professional responsibility for their activities and team   |   | The student is able to plan an individual or group task.  |                                     |        | [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills  |         |          |  |  |
|   | [K6_W10] has elementary knowledge in the field of running a business in the sanitary industry; knows the general principles of creating and developing forms of individual entrepreneurship; knows the basic principles of health and safety at work in the laboratory and at the construction site |   | The student has elementary knowledge of running a business in the sanitary industry and knows the health and safety rules in the laboratory and on the construction site. |                                     |        | [SW1] Assessment of factual knowledge  |         |          |  |  |
|   | [K6_U02] can work individually and in a team; knows how to estimate the time needed to complete the task ordered; is able to develop and implement a work schedule that ensures deadlines   |   | The student is able to complete an individual or group task.  |                                     |        | [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task  |         |          |  |  |

Data wydruku: 19.05.2024 02:38 Strona 1 z 2

| Subject contents   | Place of practice: specialized companies in the sanitary industry or relevant departments in offices. The scope of the internship depends on the place of the internship and gives the student the opportunity to learn about: a) with works related to the design or construction of sanitary and internal installations, gas, water supply, sewage and heating networks, b) with the performance of preparatory works for the construction of the network, such as: profiling, routing, surveying inventory, c) with technology and operation of facilities such as: sewage treatment plants, municipal waste landfills, water treatment plants, d) with the activities of regional water management boards and environmental protection institutions, the city or commune office, e) with work in enterprises related to the operation and maintenance of water supply, sewage and heating networks. |   |                               |  |  |  |  |
|--|---|---|-------------------------------|--|--|--|--|
| Prerequisites and co-requisites                                | Knowledge of the subjects carried out in semesters I - VI, with particular emphasis on vocational subjects.   |   |                               |  |  |  |  |
| Assessment methods and criteria                                | Subject passing criteria  | Passing threshold   | Percentage of the final grade |  |  |  |  |
|  | certificate of completion of apprenticeship and apprenticeship report   | 60.0%   | 100.0%                        |  |  |  |  |
| Recommended reading  | Basic literature  | Book publications, magazines and internet sources related to the scope of the implemented practice.   |                               |  |  |  |  |
|  | Supplementary literature  | Book publications, magazines and internet sources related to the scope of the implemented practice.   |                               |  |  |  |  |
|  | eResources addresses  | Adresy na platformie eNauczanie: Praktyki zawodowe dla studentów kierunku IŚ_2024 - Moodle ID: 37483 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37483 |                               |  |  |  |  |
| Example issues/<br>example questions/<br>tasks being completed | Design and construction of sanitary, internal, gas, water, sewage and heating installations; Performing preparatory works for network construction, such as: profiling, routing, geodetic inventory, Operation of facilities such as: sewage treatment plants, municipal waste landfills, water treatment plants, Practical familiarization with the activities of regional water management boards and environmental protection institutions, city or commune offices, Work in enterprises related to the operation and maintenance of water supply, sewage and heating networks.  |   |                               |  |  |  |  |
| Work placement   | Not applicable  |   |                               |  |  |  |  |

Data wydruku: 19.05.2024 02:38 Strona 2 z 2