



## Subject card

|                                             |                                                                                                                                                                                                                                                 |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Environmental impacts of the investment , PG_00061733                                                                                                                                                                                           |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
| Field of study                              | Environmental Engineering                                                                                                                                                                                                                       |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                    |                                                          | Academic year of realisation of subject                                                                                                                                                                                                                                            |                                     | 2026/2027                                                                                                     |            |     |
| Education level                             | second-cycle studies                                                                                                                                                                                                                            |                                                          | Subject group                                                                                                                                                                                                                                                                      |                                     | Optional subject group<br>Subject group related to scientific research in the field of study                  |            |     |
| Mode of study                               | Part-time studies                                                                                                                                                                                                                               |                                                          | Mode of delivery                                                                                                                                                                                                                                                                   |                                     | at the university                                                                                             |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                               |                                                          | Language of instruction                                                                                                                                                                                                                                                            |                                     | Polish                                                                                                        |            |     |
| Semester of study                           | 3                                                                                                                                                                                                                                               |                                                          | ECTS credits                                                                                                                                                                                                                                                                       |                                     | 4.0                                                                                                           |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                                                        |                                                          | Assessment form                                                                                                                                                                                                                                                                    |                                     | assessment                                                                                                    |            |     |
| Conducting unit                             | Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology                                                                                            |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                              |                                                          | dr hab. inż. Eliza Kulbat                                                                                                                                                                                                                                                          |                                     |                                                                                                               |            |     |
|                                             | Teachers                                                                                                                                                                                                                                        |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                     | Lecture                                                  | Tutorial                                                                                                                                                                                                                                                                           | Laboratory                          | Project                                                                                                       | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                           | 20.0                                                     | 0.0                                                                                                                                                                                                                                                                                | 0.0                                 | 10.0                                                                                                          | 0.0        | 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                                                       |                                                                                                                                                                                                                                                                                    | 3.0                                 |                                                                                                               | 70.0       | 103 |
| Subject objectives                          | To familiarise students with methods of identifying and describing the potential environmental impact of investments and the legal aspects related to this issue.                                                                               |                                                          |                                                                                                                                                                                                                                                                                    |                                     |                                                                                                               |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                  |                                                          | Subject outcome                                                                                                                                                                                                                                                                    |                                     | Method of verification                                                                                        |            |     |
|                                             | K7_W05                                                                                                                                                                                                                                          |                                                          | Student has knowledge of the impact of construction projects on the environment.                                                                                                                                                                                                   |                                     | [SW1] Assessment of factual knowledge                                                                         |            |     |
|                                             | K7_W03                                                                                                                                                                                                                                          |                                                          | Student has in-depth, structured and theoretically grounded knowledge related to measurements, management and environmental monitoring.                                                                                                                                            |                                     | [SW1] Assessment of factual knowledge<br>[SW3] Assessment of knowledge contained in written work and projects |            |     |
|                                             | [K7_W08] has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities and their incorporation in engineering practice                                                       |                                                          | Student has the knowledge necessary to understand the social, economic, legal and other non-technical conditions of engineering activities and to take them into account in engineering practice.                                                                                  |                                     | [SW1] Assessment of factual knowledge                                                                         |            |     |
|                                             | [K7_K01] can think and act in a creative, enterprising way; can determine priorities for individual or group tasks; understands the need for permanent learning and professional responsibility for the activities of both himself and the team |                                                          | Student is able to think and act in a creative and entrepreneurial manner; is able to set priorities for the completion of individual or group tasks; understands the need for continuous learning and taking professional responsibility for their own and the team's activities. |                                     | [SK3] Assessment of ability to organize work<br>[SK1] Assessment of group work skills                         |            |     |
|                                             | [K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules                                                                                                                           |                                                          | Student is able to assess risks in the implementation of engineering projects and implement appropriate safety rules.                                                                                                                                                              |                                     | [SU2] Assessment of ability to analyse information                                                            |            |     |

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                     |                               |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Subject contents                                               | Course content – lecture<br><br>Fundamentals of the legal status of environmental protection in Poland. Act of 3 October 2008 on access to information on the environment and its protection, public participation in environmental protection and environmental impact assessments. Identification of areas affected by investments on the environment. Examples of impact for investments in municipal services. Report on the environmental impact of a project methods of preparation, scope, rules for assessing the potential environmental impact in terms of its effect on Natura 2000 areas. |                                                                                                                                                                                                                                                                     |                               |
|                                                                | Course content – project<br><br>Analysis of sample reports on the environmental impact of investments and preparation of report components for selected projects.                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |                               |
| Prerequisites and co-requisites                                | Knowledge of environmental protection, monitoring and management.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Jacek Engel "Natura 2000 w ocenach oddziaływania przedsięwzięć na środowisko"<br><br>Ustawa 3 października 2008 r. o udostępnianiu informacji o środowisku i jego ochronie, udziale społeczeństwa w ochronie środowiska oraz o ocenach oddziaływania na środowisko. |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Examples of reports on the environmental impact of investments.                                                                                                                                                                                                     |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                     |                               |
|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                     |                               |
| Example issues/<br>example questions/<br>tasks being completed | Identification of potential areas of environmental impact of municipal waste landfills checklist.<br><br>Calculation of air pollutant emissions for a selected stage of the investment.                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                     |                               |
| Practical activities within the subject                        | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                     |                               |

Document generated electronically. Does not require a seal or signature.