GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Environmental impacts of the investment , PG_00055983 | | |
| Field of study | Power Engineering, Power Engineering, Power Engineering | | |
| Date of commencement of studies | October 2022 | Academic year of realisation of subject | 2024/2025 |
| Education level | first-cycle studies | Subject group | Optional subject group<br>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 | 3 | Language of instruction | Polish |
| Semester of study | 6 | ECTS credits | 2.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Patrycja Mikos-Studnicka | |
| | Teachers | | |

**Lesson types and methods of instruction**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 15.0 | 15.0 | 0.0 | 0.0 | 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 | 2.0 | 18.0 | 50 |

**Subject objectives**

Providing knowledge about:

- the impact of human activity on the environment

- the environmental impact of broadly understood investments related to the energy sector, including the impact of different types of renewable energy sources

- legal provisions on environmental protection and legislative requirements for the preparation of the EIA report

- procedures for the preparation of the EIA report

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_W02] has a basic knowledge of physics (including optics, electricity and magnetism), chemistry, technical thermodynamics, fluid mechanics and general mechanics needed to understand and describe the basic phenomena occurring in devices and systems, energy plants and transmission networks and their environment | understands and is able to describe the phenomena occurring in power equipment and energy systems, using the known principles of physics, fluid mechanics and general mechanics. | [SW1] Assessment of factual knowledge |
| [K6_K04] is able to formulate opinions on technical and technological processes in energy and sanitary engineering | is able to analyze problems and present an opinion on technical and technological processes in power and sanitary engineering. | [SK5] Assessment of ability to solve problems that arise in practice |
| [K6_U09] knows and applies the basic provisions of construction law, water law and environmental law; can determine the impact of construction investments on the environment | is able to use legal regulations in the field of environmental protection. He knows the legal requirements for the preparation of the EIA report. He can determine environmental effects resulting from the implementation of energy investments. | [SU2] Assessment of ability to analyse information<br>[SU4] Assessment of ability to use methods and tools |
| [K6_K03] is able to react in emergency situations, threats to health and life when using energy devices, is aware of the impact of engineering activities on the environment | is aware of the threats to health and life of people and the environment related to the operation of electrical power equipment. He is able to make decisions in emergency situations related to the use of power equipment. | [SK5] Assessment of ability to solve problems that arise in practice |

**Subject contents**

Components of nature and forms of environment protection
Impact of investments on the environment, impact of individual types of renewable energy sources
What is an EIA and when is it necessary
Review of legislative requirements for the preparation of the EIA report. Standards, acts and legal regulations
Scope of EIA
What should an EIA contain
Consultation and decision-making process in the EIA

**Prerequisites and co-requisites**

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| arithmetic average of grades from tutorials and exam | 51.0% | 100.0% |

**Recommended reading**

| | |
|---|---|
| Basic literature | Federczyk W., Fogel A., Kosieradzka-Federczyk A., Environmental protection law in the investment and construction process, Wolters-Kluwer, Warsaw 2015 |
| Supplementary literature | Environmental Protection Law Act of April 27, 2001; OJ 2017 item 519 |
| eResources addresses | Adresy na platformie eNauczanie: |

**Example issues/ example questions/ tasks being completed**

**Work placement**

Not applicable

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