University of Gdańsk

Subject card

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| Subject name and code | Waste Disposal in Companies, PG_00081022 | | | | | | |
| Field of study | Business and Environmental Technology | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | 2024/2025 | | | |
| Education level | Master's studies | | Subject group | | | | |
| Mode of study | full-time studies | | Mode of delivery | at the university | | | |
| Year of study | 1 | | Language of instruction | Polish | | | |
| Semester of study | 2 | | ECTS credits | 2.0 | | | |
| Learning profile | academic | | Assessment form | credit | | | |
| Conducting unit | Laboratory of Catalytic Materials and Processes -> Department of Environmental Technology -> Faculty of Chemistry -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Joanna Drzeżdżon | | | | | |
| | Teachers | dr Joanna Drzeżdżon | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | 15 |
| | 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 | 15 | | 0.0 | 0.0 | 15 | |
| Subject objectives | To familiarize students with the legal aspects and modern methods and technologies of waste management. | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
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| | [BiTEMU2_U08] searches, selects and analyzes the literature on environmental sciences, including scientific journals and databases, reading and understanding scientific texts in the native language and English | characterizes methods and explains the operation of equipment used to dispose of waste; | [SU4] test/exam - oral or written |
| | [BiTEMU2_W09] predicts the effects of human interference in the natural environment and analyzes the impact of human activity on the quality of the environment on a local, regional and global scale at an advanced level | Relates the importance of the development of waste management technologies to the good environment and human health; | [SW3] text preparation/written work |
| | [BiTEMU2_W02] distinguishes legal and administrative mechanisms and procedures in environmental protection and interprets its international dimension at an advanced level | explains the principles of selecting waste disposal technologies; | [SW3] text preparation/written work |
| | [BiTEMU2_K03] understands the need to properly set priorities, plan and organize tasks related to their implementation, as well as monitor and evaluate progress | Plans, performs and interprets analyses of environmental quality and properties of waste | [SK8] observation of student's independent or team work |
| | [BiTEMU2_W01] describes the relationship between economics and ecological technology, their place in the system of social and exact sciences at an advanced level | links the use of environmental protection instruments with the reduction of anthropopressure | [SW1] oral statement/ conversation/discussion |
| | [BiTEMU2_U05] is able to give a presentation and independently prepare various specialized written works appropriate for the field studied or in the area on the border of various scientific disciplines, using basic theoretical approaches, collecting various sources of data, their description and interpretation, and drawing conclusions based on scientific literature and the results of own research work | characterizes the methods and explains the operation of the equipment used to dispose of waste; | [SU4] test/exam - oral or written |
| | [BiTEMU2_W10] explains the mechanisms of unit processes used in remediation and environmental protection as well as waste management methods at an advanced level | Evaluates the effectiveness of the processes used in waste management; | [SW3] text preparation/written work |
| | [BiTEMU2_U07] proposes processes and methods of water treatment, sewage and waste gas treatment, environmental remediation, and waste management used in environmental protection | Plans, performs and interprets analyses of environmental quality and properties of waste | [SU4] test/exam - oral or written |
| | [BiTEMU2_W11] applies safety and hygiene rules when working independently at a research or measurement station in the laboratory or in the field at an advanced level | follows the safety rules of the laboratory chemistry; | [SW5] implementation of a problem task |
| | [BiTEMU2_K02] understands the need to cooperate and work in a group, assuming responsible roles within it | Cooperates as part of a team when performing laboratory tests and developing results; | [SK8] observation of student's independent or team work |
| | [BiTEMU2_U06] uses advanced methods, techniques, and tools to assess the quality of the environment and the effectiveness of the technological processes used | characterizes the methods and explains the operation of the equipment used to dispose of waste; | [SU4] test/exam - oral or written |

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| | Course outcome | Subject outcome | Method of verification |
| | [BiTEMU2_K07] demonstrates responsibility for the safety of one's own work and that of others, taking into account the risks resulting from the research techniques used, and creates conditions for safe work in the laboratory or in the field | Follows the safety rules of the chemical laboratory; | [SK8] observation of student's independent or team work |
| | [BiTEMU2_U09] plans and performs research tasks in the field or laboratory and interprets research results on environmental protection issues | Plans, performs and interprets analyses of environmental quality and properties of waste | [SU8] observation of student's independent or team work |
| Subject contents | 1. Introduction. Classification of waste. 2. Removal of printing from waste paper by flotation 3. Management of plastics 4. Management of fly ash 5. A trip to a recycling plant | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | reports | 51.0% | 20.0% |
| | performing experiments | 51.0% | 10.0% |
| | tests | 51.0% | 70.0% |
| Recommended reading | Basic literature | A. Literature required for final course credit (passing the exam):A.1. used during the class1. instructions for laboratory exercises developed by the staff of the Department of Environmental TechnologyA.2 studied independently by the student1. legal acts related to waste management | |
| | Supplementary literature | 1. Rosik-Dulewska C., Basics of waste management, PWN, Warsaw 20122. Jędrczak A., Biological processing of waste, PWN, Warsaw 20073. Dymaczewski Z. (ed), Handbook of a wastewater treatment plant operator, PZIiTS, Poznań 2011 | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | What is the flotation of waste paper? What is the use of fly ash? | | |
| Work placement | Not applicable | | |

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