

Subject card

| Subject name and code | WASTE MANAGEMENT, PG_00060006 | | | | | | | | |
|---|---|--|---|-------------------------------------|----------|--|----------------|------------|--|
| Field of study | Environmental Engineering | | | | | | | | |
| Date of commencement of studies | February 2025 | | Academic year of realisation of subject | | | 2025/2026 | | | |
| Education level | second-cycle studies | | Subject group | | | Obligatory subject group in the field of study 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 | 1 | | Language of instruction | | | English | | | |
| Semester of study | 2 | | ECTS credits | | | 4.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Enviro | nmental Engin | eering Technol | ogy -> Faculty | of Civil | and En | vironmental Er | ngineering | |
| Name and surname of lecturer (lecturers) | Subject supervisor prof. dr hab. inż. Aneta Łuczkiewicz Teachers | | | | | | | | |
| Lesson types and methods | Lesson type Lecture | | Tutorial | Laboratory Project | | :t | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 15.0 | 0.0 | 15.0 | | 0.0 | 60 | |
| | E-learning hours inclu | E-learning hours included: 0.0 | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation i classes include plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 60 | | 5.0 | | 38.0 | | 103 | |
| Subject objectives | The aim of the course is to present waste management in terms of saving critical raw materials, to provide practical knowledge of the circular economy, recycling, refurbishment, and remanufacturing also as new business opportunities. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | K7_W07 | | The student has in-depth, structured and theoretically based knowledge of municipal management, including recycling and resource recovery technologies. | | | [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge | | | |
| | K7_U04 | | The student is able to prepare, present and discuss the results obtained while a tutorials. | | | [SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | | | |
| | K7_U07 | | The student is able to plan and conduct field research and computer simulations leading to the assessment of the effectiveness of the solutions used in environmental engineering | | | [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | | | |
| | K7_U12 | | The student is able to analyze and evaluate in technical and economic terms the solutions and functioning of environmental engineering facilities and systems | | | [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | | | |

| Subject contents | Current challenges and opportunities in resource resilience. Smart waste management. Critical raw materials substitution and supply chains, including recycling (pre-processing, metallurgy and its challenges). Environmental problems caused by waste mismanagement. Different/efficient collection of waste in households and at companies levels; Psychology of recycling and remanufacturing/refurbishment. Waste prevention through chain optimization, product design sharing/access economy, circular procurement and new business models. | | | | | | |
|--|--|---|-------------------------------|--|--|--|--|
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| | lecture | 60.0% | 40.0% | | | | |
| | tutorials | 60.0% | 30.0% | | | | |
| | project | 60.0% | 30.0% | | | | |
| Recommended reading | Basic literature | Waste Management EU Policies & Strategies https://ec.europa.eu/environment/waste/index.htm | | | | | |
| | Supplementary literature | - | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: | | | | | | |
| Example issues/ example questions/ tasks being completed | - | • | | | | | |
| Work placement | Not applicable | | | | | | |

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