

Subject card

| Subject name and code | , PG_00059981 | | | | | | | | | | | |
|---|---|---|---|-------------------------------------|--------|---|------------------------|-----|--|--|--|--|
| 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 | | | Polish | | | | | | |
| Semester of study | 2 | | ECTS credits | | | 2.0 | | | | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | | | | |
| Conducting unit | Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering | | | | | | gineering | | | | | |
| Name and surname | Subject supervisor | ubject supervisor prof. dr hab. inż | | | | | nż. Magdalena Gajewska | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | :t | 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 classes including plan | | Participation in consultation hours | | Self-study | | SUM | | | | |
| | Number of study hours | mber of study 30 | | 5.0 | | 20.0 | | 55 | | | | |
| Subject objectives | Understanding the Principles and Significance of Designing Elements of Blue-Green Infrastructure in the City." | | | | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | | | | |
| | [K7_W11] has knowledge to analyze, evaluate and optimize processes, objects and systems of environmental engineering and knows the principles of rational energy management and resources | | Has the knowledge to analyze, assess, and optimize processes, objects, and systems in environmental engineering, as well as understands the principles of efficient energy management and resource conservation." | | | [SW3] Assessment of knowledge contained in written work and projects | | | | | | |
| | K7_U04 | | Is capable of preparing and delivering a presentation on a project task and leading a discussion regarding the presented presentation | | | [SU5] Assessment of ability to present the results of task | | | | | | |
| | [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 | | Possesses the knowledge necessary to understand the social, economic, legal, and other non-technical aspects influencing engineering activities and to consider them in engineering practice. | | | [SW3] Assessment of knowledge contained in written work and projects | | | | | | |
| | [K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions | | Can acquire information from literature, databases, and other sources; capable of integrating obtained information, interpreting and critically assessing it, drawing conclusions, and formulating and thoroughly justifying opinions | | | [SU1] Assessment of task fulfilment | | | | | | |
| | K7_U02 | | Is able to work both independently and as part of a team | | | [SU1] Assessment of task fulfilment | | | | | | |

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| Subject contents | Basic Definitions and Concepts - BGI, NBS - Nature-Based Solutions, the Need for NBS Application, Solutions Before and After the Pipe Ends, Their Characteristics, Design Principles, and Benefits. Definitions, Classification, and Types of Hydrophytic Systems, Pollutant Removal Processes, Design Principles of Hydrophytic Systems in Urbanized Areas." | | | | | |
|--|--|--|-------------------------------|--|--|--|
| Prerequisites and co-requisites | Hydraulics Water and Wastewater Technology Urban Watershed Hydrology Climate-Resilient City Engineering | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| | project | 55.0% | 100.0% | | | |
| Recommended reading | Basic literature | Wetland Technology, Practical Information on the Design and Application of Treatment Wetlands. (2019) Ed Günter Langergraber, Gabriela Dotro, Jaime Nivala, Anacleto Rizzo and Otto R. Stein. ISBN: 9781789060171 (eBook) 2020:190 | | | | |
| | Supplementary literature | Blue Green Solutions guidehttps://www.climate-kic.org/projects/blue-green-dream/ https://bgd.org.uk/tools-models/ | | | | |
| | eResources addresses | ces addresses Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Rainwater management project using BGI for a selected regionWastewater treatment project for a tourist town - variable PE | | | | | |
| Work placement | Not applicable | | | | | |

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