



Subject card

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| Subject name and code | RIVER REGULATIONS AND DREOLGING, PG_00041428 | | | | | | |
| Field of study | Civil Engineering | | | | | | |
| Date of commencement of studies | February 2025 | | Academic year of realisation of subject | | 2025/2026 | | |
| Education level | second-cycle studies | | Subject group | | Optional 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 | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Remigiusz Duszyński | | | | |
| | 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 | | 5.0 | | 15.0 | 50 |
| Subject objectives | The student learns the rules of river regulation. Familiarizes with the methods of river regulation. Student gets acquainted with the methods of conducting dredging works. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K7_W14] knows and applies building codes and obeys the Construction Law; has knowledge on environmental impact of investment realisation | | Student has knowledge of the impact of river regulation and dredging works on the environment | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to support the professional ethos of a civil engineer | | Student understands the need to disseminate knowledge about water construction and water resources in Poland | | [SK4] Assessment of communication skills, including language correctness | | |
| | [K7_U10] can analyse complicated environmental loads acting on a construction; can apply proper processes to design marine and hydroengineering constructions taking into consideration hydrological and hydraulical impact | | Student is able to analyze complex load systems acting on sea and inland hydrotechnical structures. | | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools | | |
| | [K7_W11] has deep knowlege of marine and inland hydrotechnical constructions; has knowledge about hydraulical and hydrological constrains in design and exploitation of buildings | | Student has an extended knowledge of hydrotechnical structures. He can assess the conditions influencing the selection of the right structure and factors related to the operation | | [SW3] Assessment of knowledge contained in written work and projects | | |
| Subject contents | Characteristics of surface waters. Regulation and hydrotechnical development of rivers. Non-damming structures. Water damming structures. Movement of water in a natural river bed. Water flow in the river bed under the bridge. Rubble lifted. Dragged rubble. Principles of selection of hydraulic parameters of the regulated riverbed and the regulatory route. Regulatory structures. Principles of conducting dredging works. Types of dredgers and selection of dredging equipment. | | | | | | |
| Prerequisites and co-requisites | None | | | | | | |

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| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Test | 60.0% | 50.0% |
| | Exercise | 60.0% | 50.0% |
| Recommended reading | Basic literature | 1. Bednarczyk S., Duszyński R.: Hydrauliczne i hydrotechniczne podstawy regulacji i rewitalizacji rzek. Gdańsk, 2008 2. Wołoszyn J.: Regulacja rzek i potoków, Warszawa 1998 | |
| | Supplementary literature | 1. Zastosowanie konstrukcji gabionowych w regulacji koryt cieków wodnych. R. Duszyński, Maccaferri 2017 2. Portowe roboty czerpalne i podwodne. E. Lewko; Gdynia, 2006 | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | Farque's Principles. Gabion regulatory structures. Techniques for conducting regulatory work | | |
| Work placement | Not applicable | | |

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