

Subject card

| Subject name and code | Geoengineering, PG_00044348 | | | | | | | |
|---|---|---|---|-------------------------------------|---------------------------------------|--------------------------------------|---------|-----|
| Field of study | Civil Engineering | | | | | | | |
| Date of commencement of studies | October 2023 | | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | second-cycle studies | | Subject group | | Optional subject group | | | |
| Mode of study | Part-time studies | | Mode of delivery | | at the university | | | |
| Year of study | 2 | | Language of instruction | | Polish | | | |
| Semester of study | 3 | | ECTS credits | | | 1.0 | | |
| 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 | Subject supervisor | dr inż. Angelika Duszyńska | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | · · · · · · · · · · · · · · · · · · · | | Seminar | SUM |
| | Number of study hours | 10.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 10 |
| | E-learning hours included: 0.0 | | | | | 0.114 | | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study | | SUM |
| | Number of study hours | 10 | | 5.0 | | | | 25 |
| Subject objectives | The aim of the course is to familiarize students with the possibilities of using practice geoengineering issues in transport engineering. | | | | | | | |
| Learning outcomes | Course out | Subject outcome | | | Method of verification | | | |
| | [K7_U14] is able to plan and to interpret the geotechnical investigatons, to analyse the foundation stability; can design direct and deep foundations in complex soil conditions for complcated statical and dynamical loads | | Ability to interpret geotechnical test results, assessment of embankment stability and foundation in difficult ground conditions. | | | | | |
| | [K7_W12] has deep and theoreticaly firm knowledge about geotechnical investigation, the rules of geotechnical design and engineering geology; knows the compleated processes in soil, techniques of foundations, draining systems, soil strengthening, geosynthetics applications, underground constructions and earthworks | | Knowledge of the principles of geotechnical design, methods of subsoil modification under communication embankments and the use of geosynthetics in road structures | | | | | |
| Subject contents | Geotechnical design. Slope stability. Geosynthetics in earth structures. Soil reinforcement and modification. Methods of underground communication facilities constructing. | | | | | | | |
| Prerequisites and co-requisites | Basic knowledge of soil mechanics and foundation | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold 60.0% | | | Percentage of the final grade 100.0% | | |
| Recommended reading | Basic literature | | 60.0% 100.0% Eurocode 7 | | | | | |
| | | | technical and scientific journals | | | | | |
| | eResources addresses | | Adresy na platformie eNauczanie: | | | | | |
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| Example locator | Geotechnical design. Slope stability. Geosynthetics in earth structures. Soil reinforcement and modification. Methods of underground communication facilities constructing. |
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| Work placement | Not applicable |

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