

Subject card

| Subject name and code | MARINE CIVIL ENGINEERING AND OCEAN ENGINEERING, PG_00042258 | | | | | | | | |
|---|--|--|---|------------------------------|----------------------------------|--|------------------------|-----|--|
| Field of study | Civil Engineering | | | | | | | | |
| Date of commencement of studies | February 2025 | | Academic year of realisation of subject | | | 2025/ | 2025/2026 | | |
| Education level | second-cycle studies | | Subject group | | | Optio | Optional subject group | | |
| | | | | | | 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 | | | 4.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | exam | | | |
| Conducting unit | Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering | | | | | nvironmental | | | |
| Name and surname | Subject supervisor | | dr hab. inż. Waldemar Magda | | | | | | |
| of lecturer (lecturers) | Teachers | 1 | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | <u>t</u> | Seminar | SUM | |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 30.0 | | 0.0 | 60 | |
| | E-learning hours incli | E-learning hours included: 0.0 | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation i classes including | | Participation consultation I | articipation in nsultation hours | | tudy | SUM | |
| | Number of study hours | 60 | | 5.0 | | 35.0 | | 100 | |
| Subject objectives | Presentation of basic problems related with design and operating of offshore structures. | | | | | | | | |
| Learning outcomes | Course out | Subject outcome Method of verification | | | | | | | |
| | [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 | | A student is able to analyze complex patterns of environmental loadings acting on: jack-up rigs, semi-submersible rigs, anchoring systems, and submarine pipelines. | | | [SU1] Assessment of task fulfilment | | | |
| | [K7_U01] can evaluate and list any loads acting on constructions | | A student is able to estimate and complete hydrostatic and hydrodynamic loads acting on: jack-up rigs and semi-submersible rigs, anchoring systems and submarine pipelines. | | | [SU1] Assessment of task fulfilment | | | |
| | [K7_W11] has deep knowlege of marine and inland hydotechnical constructions; has knowledge about hydraulical and hydrological constrains in design and exploitation of buildings | | A student has an extended knowledge on offshore structures and types of loadings acting on structures. | | | [SW1] Assessment of factual knowledge | | | |
| Subject contents | Minerals dissolved in sea water and mineral resources of the seabed. Exploration investigations and systems for operating, storage and production of hydrocarbons, especially natural gas and crude oil. Submarine pipelines (operating parameters, classical methods of pipe laying on a seabed, vertical stability of pipelines buried in seabed sediments. Mooring systems of floating offshore structures (e.g. semi-submersibles). Systems of natural gas utilization on drilling and production platforms. | | | | | | | | |
| Prerequisites and co-requisites | | | | | | - | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | | Percentage of the final grade | | | |
| | design case | | 60.0% | | | | 50.0% | | |
| | written test | | 60.0% | | | 50.0% | | | |

Data wygenerowania: 21.11.2024 21:19 Strona 1 z 2

| Recommended reading | Basic literature Supplementary literature | Magda W.: Budownictwo morskie. Wybrane zagadnienia wraz z przykładami obliczeniowymi. Wydawnictwo Naukowe PWN, Warszawa, 2020. Magda W.: Rurociągi podmorskie. Zasady projektowania. Wydawnictwo-Naukowo Techniczne, Warszawa, 2004. Mazurkiewicz B.: Oceanotechnika. Zagadnienia wybrane. Politechnika Gdańska, Gdańsk, 1996. Mazurkiewicz B.: Stałe pełnomorskie platformy żelbetowe. Wydawnictwo Morskie, Gdańsk, 1985. Mazurkiewicz B.: Stałe pełnomorskie platformy stalowe. Wydawnictwo Morskie, Gdańsk, 1988. Karlic S.: Zarys górnictwa morskiego. Wydawnictwo "Śląsk"", Katowice, 1983. Brahtz J. F.: Oceanotechnika. Wydawnictwo Morskie, Gdańsk, 1974. Inżynieria Morska i Geotechnika (dwumiesięcznik, biblioteka Wydziału). | | | |
|--|--|---|--|--|--|
| | | Zeszyty naukowe Katedry Budownictwa Morskiego PG, seria - Studia i Materiały (biblioteka Wydziału). | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | |
| Example issues/ example questions/ tasks being completed | | | | | |
| Work placement | Not applicable | | | | |

Document generated electronically. Does not require a seal or signature.