

Subject card

| Subject name and code | Design of Ship Machinery and Equipment, PG_00062680 | | | | | | | | |
|---|---|---|---|-------------------------------------|------------|--|-----|-----|--|
| Field of study | Naval Architecture and Offshore Structures | | | | | | | | |
| Date of commencement of studies | February 2024 | | Academic year of realisation of subject | | | 2024/2025 | | | |
| Education level | second-cycle studies | | Subject group | | | Specialty 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 none | | | |
| Semester of study | 2 | | ECTS credits | | 5.0 | | | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | | | |
| Conducting unit | Zakład Wyposażenia Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology | | | | | | | | |
| Name and surname | Subject supervisor | | dr hab. inż. Wojciech Litwin | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | Project Seminar | | SUM | |
| of instruction | Number of study hours | 30.0 | 0.0 | 0.0 | 45.0 | | 0.0 | 75 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| 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 | 75 | | 10.0 | | 40.0 | | 125 | |
| Subject objectives | The aim of the course is to familiarize students with the problems of designing marine machinery and equipment (lecture) and to conduct design work with students (design exercises). | | | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification | | | | |
|--|---|--|--|--|--|--|--|
| | [K7_W06] Capable of finding and utilizing credible sources of information crucial for analyzing issues within the field of study | The student is able to use literature and online databases. | [SW1] Assessment of factual knowledge | | | | |
| | [K7_W02] Explains the essence and relationships of key components describing systems and processes in ocean engineering, utilizing current knowledge from major scientific fields related to the field of study | The student is able to describe basic ship systems. | [SW1] Assessment of factual knowledge | | | | |
| | [K7_U02] Presents convincing and logically justified arguments regarding outcomes through critical analysis of information in diverse technical contexts and an approach to their interpretation | The student is able to evaluate the obtained calculation results. | [SU1] Assessment of task fulfilment | | | | |
| | [K7_U01] Develops innovative strategies to solve complex and dynamic problems by synthesizing information from various sources and utilizing analytical, simulation, and experimental methods, considering environmental variability | The student is able to assess what methods he or she must use to solve a specific design task. | [SU1] Assessment of task fulfilment | | | | |
| | [K7_W03] Demonstrates advanced skills in applying analytical methods and problem- solving techniques related to ocean engineering, using appropriate tools | The student is able to solve a design task, perform calculations and make drawings. | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge | | | | |
| | [K7_K01] Understands the need for lifelong learning, critically evaluate acquired knowledge, and comprehend the significance of knowledge in addressing cognitive and practical problems | The student furthers his/her education by consulting current literature | [SK2] Assessment of progress of work [SK1] Assessment of group work skills | | | | |
| Subject contents | The lecture will discuss the design of a selected group of ship devices, such as: mooring devices, anchor devices, reloading devices, as well as components of the ship's power transmission system and others. During design classes, students design devices and their components. | | | | | | |
| Prerequisites and co-requisites | Knowledge and skills in the filed of machine design, mechanics and strength of materials. | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| | , , , | 100.0% | 50.0% | | | | |
| | | 50.0% | 50.0% | | | | |
| Recommended reading | Basic literature Literature on the design of machines and devices. | | | | | | |
| | Supplementary literature no | | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: | | | | | | |
| Example issues/ example questions/ tasks being completed | Please discuss the typical method of mooring a ship, list the necessary devices of the mooring system and discuss and sketch the construction of a simple mooring winch. | | | | | | |
| Work placement | Not applicable | | | | | | |
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