



Subject card

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|---|--|--|--|-------------------------------------|---------|---|-----|
| Subject name and code | , PG_00062013 | | | | | | |
| Field of study | Siłownie okrętowe | | | | | | |
| Date of commencement of studies | October 2023 | | Academic year of realisation of subject | | | 2025/2026 | |
| Education level | first-cycle studies | | Subject group | | | | |
| Mode of study | Part-time studies | | Mode of delivery | | | at the university | |
| Year of study | 3 | | Language of instruction | | | Polish | |
| Semester of study | 5 | | ECTS credits | | | 8.0 | |
| Learning profile | general academic profile | | Assessment form | | | assessment | |
| Conducting unit | Division of Marine Power Plants -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Wydział Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Piotr Bzura | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 36.0 | 0.0 | 9.0 | 18.0 | 0.0 | 63 |
| | 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 | 63 | | 0.0 | | 0.0 | 63 |
| Subject objectives | Familiarization with the operating conditions of various ship power plants | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | |
| | [K6_U14] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria | | Knows the machinery and equipment included in the shaft line for the direct and indirect system | | | [SU2] Ocena umiejętności analizy informacji | |
| | [K6_W11] has knowledge of analysis, design, technology and manufacturing of selected technical systems, machinery and equipment, metrology and quality control, knows and understands methods of measurement and calculation of basic quantities describing the operation of technical systems, knows basic calculation methods used to analyse experimental results | | Present the engine-propeller- hull cooperation | | | [SW2] Ocena wiedzy zawartej w prezentacji | |
| | [K6_W08] has a knowledge of the analysis and design of selected technical systems, machines and technical equipment, selection of construction materials, manufacturing and operation, including their life cycle | | The student knows basic information about fuel used for propulsion | | | [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym | |
| | [K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools | | The student defines the concepts of machinery and equipment included in the main propulsion system of a ship | | | [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu | |

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| Subject contents | Types of ship propulsors, their classification. Characteristics of the piston engine of combustion engines, gas turbines, steam turbines and nuclear power plant. Combined gyms. Engine power plant solutions - direct drive, indirect drive. Elements of the shaft line of the main drive system. The bases of the engine-thrust-hull cooperation. Installations servicing internal combustion engines. Machines and gym equipment. The basic installations of the analyzed marine power plants | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | credit colloquium | 51.0% | 100.0% |
| Recommended reading | Basic literature | Andrzej Balcerski: Siłownie okrętowe < | |

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