# GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

| Subject name and code | , PG_00056298 | | | | | |
|---|---|---|---|---|---|---|
| Field of study | Ocean Engineering | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | 2024/2025 | |
| Education level | first-cycle studies | | Subject group | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | |
| Year of study | 3 | | Language of instruction | | Polish | |
| Semester of study | 6 | | ECTS credits | | 4.0 | |
| Learning profile | general academic profile | | Assessment form | | exam | |
| Conducting unit | Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Ryszard Pyszko | | | |
| | Teachers | | | | | |

| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|---|
| | Number of study hours | 30.0 | 0.0 | 0.0 | 15.0 | 0.0 | 45 |
| | 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 | 45 | 5.0 | 50.0 | 100 |

| Subject objectives | Familiarisation with deterioration of condition of ships, examples of failures and its consequences. Selected problems of particular technological shipyard processes during repairing or conversion. Chosen aspects of preparation of shipyard production as well as quality checking |
|---|---|

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|---|---|---|---|
| | [K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems | Project of volume section elaborated by student in scope preliminary defined by tutor | [SW3] Assessment of knowledge contained in written work and projects |
| | [K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems | Student knows reasons for degradation of technical condition of ship, possible types of failures as well as procedure for its repairing | [SW1] Assessment of factual knowledge |
| | [K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems | Student is able to define of scope and methodology of elaboration of specification for review of technical condition of ship | [SU1] Assessment of task fulfilment |
| | [K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations | Student is able properly select published papers for analysed problems | [SU2] Assessment of ability to analyse information |

| Subject contents | • Reasons for deterioration of condition of ships, examples of failures and its consequences.<br>• Systems of surveying of ships and preventional repairing processes<br>• Repearing shipyard - structure and its specific<br>• Systems and tools for moving up of floating objects<br>• Processess of docking<br>• Selected problems of particular technological shipyard processes during repairing or conversion. Chosen<br>• aspects of preparation of shipyard production as well as quality checking |
|---|---|
| Prerequisites and co-requisites | Knowledge on structure of diffferent types of ships as well as technology of its erection |

| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|---|
| | project | 90.0% | 50.0% |
| | lecture | 60.0% | 50.0% |

| Recommended reading | Basic literature | Piero Cardis - "INSPECTION, REPAIR AND MAINTENANCE OIF SHIP STRUCTURES - WITHERBY |
|---|---|---|
| | Supplementary literature | Rules of Classification - Det Norske Veritas<br>Shiprepair and convertion technology- quartely |
| | eResources addresses | Adresy na platformie eNauczanie: |

| Example issues/ example questions/ tasks being completed | |
|---|---|
| Work placement | Not applicable |