



## Subject card

|   |   |  |   |                                     |  |            |     |
|---|---|--|---|-------------------------------------|--|------------|-----|
| Subject name and code                       | Fundamentals of Ergonomics and Occupational Safety and Health, PG_00045268  |  |   |                                     |  |            |     |
| Field of study                              | Transport and Logistics, Transport and Logistics  |  |   |                                     |  |            |     |
| Date of commencement of studies             | October 2020  |  | Academic year of realisation of subject   |                                     | 2023/2024  |            |     |
| Education level                             | first-cycle studies   |  | Subject group   |                                     |  |            |     |
| Mode of study                               | Full-time studies   |  | Mode of delivery  |                                     | at the university  |            |     |
| Year of study                               | 4   |  | Language of instruction   |                                     | Polish   |            |     |
| Semester of study                           | 7   |  | ECTS credits  |                                     | 2.0  |            |     |
| Learning profile                            | general academic profile  |  | Assessment form   |                                     | assessment   |            |     |
| 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. Jacek Nakielski   |                                     |  |            |     |
|   | Teachers  |  | dr inż. Jacek Nakielski   |                                     |  |            |     |
| Lesson types and methods of instruction     | Lesson type   | Lecture  | Tutorial  | Laboratory                          | Project  | Seminar    | SUM |
|   | Number of study hours   | 15.0   | 0.0   | 0.0                                 | 0.0  | 0.0        | 15  |
|   | 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   | 15   |   | 3.5                                 |  | 26.5       | 45  |
| Subject objectives                          | Man-machine-environment. Work characteristics. Tiredness. Requirements for working with a computer. Safe operation of machines. Risk assessment.  |  |   |                                     |  |            |     |
| Learning outcomes                           | Course outcome  |  | Subject outcome   |                                     | Method of verification   |            |     |
|   | [K6_U07] applies knowledge on humanities, social and economical science in solving problems   |  | -   |                                     | [SU2] Assessment of ability to analyse information                   |            |     |
|   | [K6_W07] has a general knowledge on humanities, social and economical sciences. Knows the rules of creating the forms of personal entrepreneurship and economic activity, has knowledge on the protection of intellectual property rights and industrial property rights and copyrights   |  | -   |                                     | [SW2] Assessment of knowledge contained in presentation              |            |     |
|   | [K6_K02] can work in a team, assuming various roles, can act in a rational and ethical way  |  | -   |                                     | [SK5] Assessment of ability to solve problems that arise in practice |            |     |
| Subject contents                            | 1. Ergonomic system: man-machine-environment. 2. Characteristics of work and its physiology, human workload. 3. Spatial and material parameters of the work environment, parameters characterizing the human figure. 4. Human information, regulation, control and sensory system. 5. Fatigue. 6. Ergonomic requirements for working with a computer. 7. Safety in operating machines. 8. Safe work on board merchant ships. 9. Methods of assessing occupational risk at workplaces. 10. Occupational health and safety management system. 11. Employers' obligations to ensure safe working conditions. 12. CE marking. |  |   |                                     |  |            |     |
| Prerequisites and co-requisites             |   |  |   |                                     |  |            |     |
| Assessment methods and criteria             | Subject passing criteria  |  | Passing threshold   |                                     | Percentage of the final grade  |            |     |
|   |   |  | 50.0%   |                                     | 100.0%   |            |     |
| Recommended reading                         | Basic literature  |  | brak  |                                     |  |            |     |
|   | Supplementary literature  |  | brak  |                                     |  |            |     |
|   | eResources addresses  |  | Adresy na platformie eNauczanie:<br>Podstawy ergonomii i BHP, W, kierunek: Oceanotechnika/Transport, inż., stacj., sem. 7, zimowy 23/24, (O:098830/O:10320) - Moodle ID: 33450<br><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33450">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33450</a> |                                     |  |            |     |

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| Example issues/<br>example questions/<br>tasks being completed |                |
| Work placement   | Not applicable |