



## Subject card

|   |   |  |  |                                     |   |            |     |
|---|---|--|--|-------------------------------------|---|------------|-----|
| Subject name and code                       | Cargo Determination, PG_00045239  |  |  |                                     |   |            |     |
| Field of study                              | Transport and Logistics, Transport and Logistics  |  |  |                                     |   |            |     |
| Date of commencement of studies             | October 2020  |  | Academic year of realisation of subject  |                                     | 2022/2023   |            |     |
| 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                           | 5   |  | ECTS credits   |                                     | 4.0   |            |     |
| Learning profile                            | general academic profile  |  | Assessment form  |                                     | assessment  |            |     |
| Conducting unit                             | Faculty of Ocean Engineering and Ship Technology  |  |  |                                     |   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor  |  | dr inż. Agnieszka Maczyszyn  |                                     |   |            |     |
|   | Teachers  |  | dr inż. Agnieszka Maczyszyn  |                                     |   |            |     |
| 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                                 |   | 42.0       | 92  |
| Subject objectives                          | <p>Knowledge of cargo classification, cargo quality characteristics, criteria of subdivision and classification of cargo, cargo resistance to transport and storage conditions, principles of hazardous cargo transport and classification.</p> <p>P/S Justification of selection of a project theme, determination of the work objective and the necessary elements to active the intendant effect. Presentation of the elements of performed project, active participation in seminar discussions</p>   |  |  |                                     |   |            |     |
| Learning outcomes                           | Course outcome  |  | Subject outcome  |                                     | Method of verification  |            |     |
|   | [K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of means and systems of transport   |  | The student has the ability justification for the choice of topic of the project, defining the purpose of the work and elements necessary for achieving the intended goal in the field of cargo science and Transport. |                                     | [SU1] Assessment of task fulfilment<br>[SU2] Assessment of ability to analyse information<br>[SU4] Assessment of ability to use methods and tools |            |     |
|   | [K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport   |  | Ability to correctly select the means and commodity system due to the type of cargo  |                                     | [SW2] Assessment of knowledge contained in presentation<br>[SW3] Assessment of knowledge contained in written work and projects                   |            |     |
| Subject contents                            | LECTURES Basic definitions: transport, transportation process, commodities, science of commodities, cargo, science of cargos, quality, standardization, unification; cargo vulnerability; cargo classification; physical and chemical properties of cargo; biochemical properties of cargo; external impact on cargos; packaging; cargo units; cargo containers; classification of containers; packaging markings, main loading techniques; choice of loading technique: Lo-Lo, Ro-Ro, Pump in - Pump out; cranes: types, characteristics, capacities; travelling cranes, cranes, lift trucks; store equipment: lift, wagon tipplers; cargo holders; loading techniques and cargo protection on the transport vehicles. SEMINAR A mini-project in selected problems |  |  |                                     |   |            |     |
| Prerequisites and co-requisites             | Principles of machine design  |  |  |                                     |   |            |     |
| Assessment methods and criteria             | Subject passing criteria  |  | Passing threshold  |                                     | Percentage of the final grade   |            |     |
|   | passing the project in writing and orally   |  | 50.0%  |                                     | 50.0%   |            |     |
|   | Midterm colloquium  |  | 50.0%  |                                     | 50.0%   |            |     |

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| Recommended reading  | Basic literature         | 1. Szarnow R.: Ładunkoznawstwo okrętowe, Wyd. WSM Gdynia 1996<br>2. Nierzwicki W.: Opakowania, Wyd. WSM Gdynia 1996<br>3. Korzeniowski A.: Zarządzanie gospodarką magazynową, PWE 1997<br>4. Grzybowisk L.: Kontenery w transporcie morskim, Wyd. Trademar Gdynia 1999<br>5. Karpiel Ł., Skrzypek M.: Towaroznawstwo ogólne, Wyd. Akademii Ekonomicznej 2000<br>6. Gubiła M.: Podstawy zarządzania magazynem w przykładach, Biblioteka logistyka Poznań 2002<br>7. Wiśnicki B.: Vademecum konteneryzacji, Link 2006 |
|  | Supplementary literature | No requirements   |
|  | eResources addresses     | Adresy na platformie eNauczanie:<br>Ładunkoznawstwo, WiP, TiL, sem.04, zimowy 22/23 (PG_00045239) - Moodle ID: 25823<br><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25823">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25823</a>   |
| Example issues/<br>example questions/<br>tasks being completed |                          |   |
| Work placement   | Not applicable           |   |