

## Subject card

| Subject name and code                       | Designing of High-Speed Units 1, PG_00056259   |         |  |                                     |           |   |                |          |  |  |
|---|--|---------|--|-------------------------------------|-----------|---|----------------|----------|--|--|
| Field of study                              | Design and Construction of Yachts  |         |  |                                     |           |   |                |          |  |  |
| 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                           | 5  |         | ECTS credits   |                                     |           | 3.0   |                |          |  |  |
| Learning profile                            | practical profile  |         | Assessment form  |                                     |           | assessment  |                |          |  |  |
| Conducting unit                             | Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology  |         |  |                                     |           |   |                |          |  |  |
| Name and surname                            | Subject supervisor   |         | dr inż. Michał Krężelewski   |                                     |           |   |                |          |  |  |
| of lecturer (lecturers)                     | Teachers   |         |  |                                     |           |   |                |          |  |  |
| Lesson types and methods of instruction     | Lesson type  | Lecture | Tutorial   | Laboratory                          | Project   | t   | Seminar        | SUM      |  |  |
|   | Number of study hours  | 15.0    | 0.0  | 0.0 30.0                            |           |   | 0.0            | 45       |  |  |
|   | 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  | 45      |  | 5.0                                 |           | 25.0  |                | 75       |  |  |
| Subject objectives                          | The aim of the course is to familiarize students with the issues of designing motor yachts and other high-<br>speed crafts. The result is the execution of a conceptual design. The project is made with the use of a<br>selected computer program.  |         |  |                                     |           |   |                |          |  |  |
| Learning outcomes                           |  |         |  |                                     |           |   | Method of veri | fication |  |  |
|   | K6_W06   |         | methods and design tools enabling the implementation of  |                                     |           | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge  |                |          |  |  |
|   | K6_U03   |         | The student is able to use methods of computer aided design, production and operation of yachts                    |                                     |           | [SU1] Assessment of task fulfilment   |                |          |  |  |
|   |  |         | simple engineering task and its<br>specificity in the field of designing,<br>manufacturing and operating<br>yachts |                                     |           | [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information |                |          |  |  |
|   | K6_W05   |         |  |                                     |           | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge  |                |          |  |  |
|   | <ol> <li>The goal and scope of work</li> <li>The main and auxiliary design assumptions</li> <li>Analysis of existing solutions</li> <li>Determination of main dimensions and conceptual sketch</li> <li>Hull shape design</li> <li>Estimation of propulsion system parameters</li> <li>Stability</li> <li>Technical documentation (e.g. GA, LP, )</li> </ol> |         |  |                                     |           |   |                |          |  |  |

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| Assessment methods and criteria                                | Subject passing criteria | Passing threshold   | Percentage of the final grade |  |  |  |
|--|--------------------------|---|-------------------------------|--|--|--|
|  | Test                     | 60.0%   | 50.0%                         |  |  |  |
|  | Project                  | 100.0%  | 50.0%                         |  |  |  |
| Recommended reading  | Basic literature         | L. Larsson, R. E. Eliasson, M. Orych: Podstawy projektowania jachtów W. L. Suska, Motorówki i małe kutry motorowe |                               |  |  |  |
|  |                          | J.Michalski, Podstawy projektowania okrętów   |                               |  |  |  |
|  | Supplementary literature | Przepisy Klasyfikacji i Budowy Jachtów Morskich, Części I VII, PRS  |                               |  |  |  |
|  |                          | Przepisy Klasyfikacji i Budowy łodzi motorowych, Części I-VI, PRS   |                               |  |  |  |
|  | eResources addresses     | Adresy na platformie eNauczanie:  |                               |  |  |  |
| Example issues/<br>example questions/<br>tasks being completed |                          |   |                               |  |  |  |
| Work placement   | Not applicable           |   |                               |  |  |  |

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