

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                         |                                     |                                                                                                             |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Navigation II (Auditory Exercises), PG_00182414                                                                                                                                                                                                                                                                                                                   |                                                          |                                         |                                     |                                                                                                             |            |     |
| Field of study                              | Marine Hydrography                                                                                                                                                                                                                                                                                                                                                |                                                          |                                         |                                     |                                                                                                             |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                                                      |                                                          | Academic year of realisation of subject |                                     | 2025/2026                                                                                                   |            |     |
| Education level                             | Bachelor's studies                                                                                                                                                                                                                                                                                                                                                |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Subject group related to practical vocational preparation |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                                                                                                 |                                                          | Mode of delivery                        |                                     | at the university                                                                                           |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                                                                                                                                                 |                                                          | Language of instruction                 |                                     | Polish                                                                                                      |            |     |
| Semester of study                           | 3                                                                                                                                                                                                                                                                                                                                                                 |                                                          | ECTS credits                            |                                     | 0.0                                                                                                         |            |     |
| Learning profile                            | practical                                                                                                                                                                                                                                                                                                                                                         |                                                          | Assessment form                         |                                     | credit                                                                                                      |            |     |
| Conducting unit                             |                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                         |                                     |                                                                                                             |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                |                                                          | dr inż. Arkadiusz Narloch               |                                     |                                                                                                             |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                          |                                                          |                                         |                                     |                                                                                                             |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                       | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                                                                                     | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                             | 0.0                                                      | 6.0                                     | 0.0                                 | 0.0                                                                                                         | 0.0        | 6   |
|                                             | 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                                                                                                                                                                                                                                                                                                                                             | 6                                                        |                                         | 1.0                                 |                                                                                                             | 3.0        | 10  |
| Subject objectives                          | Mastering skills in the following areas:<br><br>navigation (based on the framework training program at the operational level in the deck department in coastal shipping), selected elements of nautical science, and issues related to sea levels and tides for class B hydrographers (based on the framework training program for class B marine hydrographers). |                                                          |                                         |                                     |                                                                                                             |            |     |

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| Learning outcomes                                              | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Method of verification            |
|                                                                | [HML3-U11] use navigation devices, means of technical observation and communication as well as measuring instruments, as well as apply in practice various techniques of measurement and observation in the field of professional activity related to the field of study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | is able to:<br>- Effectively plan a ship's voyage.<br>- Navigate safely in coastal waters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [SU4] test/exam - oral or written |
|                                                                | [HML3-U14] use the applicable terminology in presenting and discussing problems related to the field of study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | is able to:<br>-Define and verify potential navigational hazards<br>- Use nautical publications<br>- Obtain navigational and weather warnings<br>- Correct maps and nautical publications<br>- Conduct navigational corrections<br>- Determine the position of the ship using terrestrial and electronic methods<br>- Determine the position of the ship using terrestrial and electronic methods<br>- Conduct safe navigation<br>- Determine and calculate compass corrections<br>- Plan the ship's voyage<br>- Perform navigational calculations regarding the course and route of the ship, including ECDIS. | [SU4] test/exam - oral or written |
| Subject contents                                               | 2. GEODETIC AND CARTOGRAPHIC BASICS OF NAVIGATION<br><br>Using navigation charts: navigational hazards on nautical charts, navigational aids, the IALA navigational aid system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |
| Prerequisites and co-requisites                                | This subject is required by the Regulation of the Minister of Infrastructure and Development of 5 February 2014 on framework training programs and examination requirements for deck department seafarers (consolidated text: Journal of Laws of 2023, item 1566): attendance at all classes is mandatory. The Polish Naval Academy allows students to make up up to 20% of excused absences from these classes in a form that allows them to acquire missing knowledge and skills. Students who have passed the course but, due to absences exceeding 20% of classes or who did not make up the classes in a form that allows them to acquire missing knowledge and skills, will not receive an entry in the supplement confirming completion of studies recognized at the operational level in coastal navigation. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Percentage of the final grade     |
|                                                                | test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100.0%                            |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1. URBAŃSKI J., KOPACZ Z., POŚIŁA J.: Nawigacja morska. Część I i II. Wydawnictwo AMW, Gdynia 2000.<br>2. WOLSKI A.: Pozycja zliczona i obserwowana w nawigacji morskiej. Inżynieria, Szczecin 2016.<br>3. ŻOŁNIERUK D.: Nakres drogi okrętu. Część I. Wydawnictwo AMW, Gdynia 2016                                                                                                                                                                                                                                                                                                                             |                                   |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1. DĄBROWSKI T., CZAPLEWSKI K.: Locja morska. Wydawnictwo AMW, Gdynia 1998<br>2. WRÓBEL F.: Vademecum oficera wachtowego, TradeMar, Gdynia 2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |
| Example issues/<br>example questions/<br>tasks being completed | 1. Determining the calculated position taking into account drift.<br><br>2. Determining the calculated position taking into account drift.<br><br>3. Determining the calculated position taking into account total drift.<br><br>4. Determining the observed position from the measurement of navigation parameters to one, two, and three navigation marks.<br><br>5. Using tide tables and calculating the time of occurrence of the desired tide height.                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |

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| Work placement | Not applicable |
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