

**Subject card**

|  |   |  |                    |                                     |  |            |     |
|--|---|--|--------------------|-------------------------------------|--|------------|-----|
| <b>Subject name and code</b>                       | Meteorology I - lecture, PG_00198806  |  |                    |                                     |  |            |     |
| <b>Field of study</b>                              | Marine Hydrography  |  |                    |                                     |  |            |     |
| <b>Date of commencement of studies</b>             | October 2026  | <b>Academic year of realisation of subject</b>           |                    |                                     |  | 2027/2028  |     |
| <b>Education level</b>                             | Bachelor's studies  | <b>Subject group</b>                                     |                    |                                     | Obligatory subject group in the field of study |            |     |
| <b>Mode of study</b>                               | full-time studies   | <b>Mode of delivery</b>                                  |                    |                                     | at the university                              |            |     |
| <b>Year of study</b>                               | 2   | <b>Language of instruction</b>                           |                    |                                     | Polish   |            |     |
| <b>Semester of study</b>                           | 3   | <b>ECTS credits</b>                                      |                    |                                     | 1.0  |            |     |
| <b>Learning profile</b>                            | practical   | <b>Assessment form</b>                                   |                    |                                     | credit   |            |     |
| <b>Conducting unit</b>                             |   |  |                    |                                     |  |            |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>   |  | dr Janusz Filipiak |                                     |  |            |     |
|  | <b>Teachers</b>   |  |                    |                                     |  |            |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>  | Lecture  | Tutorial           | Laboratory                          | Project  | Seminar    | SUM |
|  | <b>Number of study hours</b>  | 10.0   | 0.0                | 0.0                                 | 0.0  | 0.0        | 10  |
|  | E-learning hours included: 0.0  |  |                    |                                     |  |            |     |
| <b>Learning activity and number of study hours</b> | <b>Learning activity</b>  | Participation in didactic classes included in study plan |                    | Participation in consultation hours |  | Self-study | SUM |
|  | <b>Number of study hours</b>  | 10   |                    | 1.0                                 |  | 14.0       | 25  |
| <b>Subject objectives</b>                          | Familiarization with basic physical processes in the ocean-atmosphere system for the purpose of analyzing current weather conditions and their evolution. |  |                    |                                     |  |            |     |

|   |  |   |                                   |
|---|--|---|-----------------------------------|
| Learning outcomes   | Course outcome   | Subject outcome   | Method of verification            |
|   | [HML3-W13] knows and understands global environmental problems resulting from the development of civilisation, in particular strong anthropopressure in the coastal regions of seas and oceans   | knows and understands, at an advanced level, the global atmospheric environmental issues resulting from the development of civilization, particularly the intense anthropogenic pressure in coastal regions of seas and oceans  | [SW4] test/exam - oral or written |
|   | [HML3-U14] is able to use the applicable terminology in presenting and discussing problems related to the field of study   | is able to use the applicable scientific terminology in presenting and discussing issues related to meteorology   | [SU4] test/exam - oral or written |
|   | [HML3-U08] is able to independently use the professional literature available in traditional and electronic form, make an assessment, critical analysis and synthesis as well as the correct interpretation of the information obtained  | is able to independently use professional literature on meteorology, available in both print and electronic formats, as well as databases and the Internet; is able to synthesize, evaluate, and correctly interpret the information obtained, and draw conclusions based on it | [SU4] test/exam - oral or written |
|   | [HML3-K01] is ready to correctly identify and resolve professional dilemmas, especially in the aspects of security and entrusted property  | is ready to complete tasks on time, whether working individually or as part of a team   | [SK4] test/exam - oral or written |
|   | [HML3-W02] knows and understands, at an advanced level, selected phenomena and processes occurring in the hydrosphere, atmosphere, lithosphere and biosphere, their interconnections and relations, as well as practical applications of this knowledge in professional activities related to the field of study | knows the basics of how the atmosphere works and how it interacts with the sea surface  | [SW4] test/exam - oral or written |
| [HML3-W01] knows and understands, at an advanced level, selected facts, phenomena and processes, as well as methods and theories concerning them, explaining the complex relationships between them, constituting basic general knowledge in the field of scientific disciplines forming the theoretical foundations specific to the field of study | knows and understands, at an advanced level, the phenomena and processes occurring in the atmosphere and their interrelationships  | [SW4] test/exam - oral or written   |                                   |
| Subject contents  | Structure and properties of the atmosphere.<br>Radiation.<br>Water in the atmosphere.<br>Selected topics in atmospheric dynamics and thermodynamics.   |   |                                   |
| Prerequisites and co-requisites   |  |   |                                   |
| Assessment methods and criteria   | Subject passing criteria   | Passing threshold   | Percentage of the final grade     |
|   | test   | 51.0%   | 100.0%                            |
| Recommended reading   | Basic literature   | KOŻUCHOWSKI K. (red.) 2007. Meteorologia i klimatologia. Wydawnictwo Naukowe PWN.   |                                   |
|   | Supplementary literature   | Rettalack B.J., 1991, Podstawy meteorologii, IMGW, Warszawa.  |                                   |
|   | eResources addresses   |   |                                   |
| Example issues/<br>example questions/<br>tasks being completed  | <ol style="list-style-type: none"> <li>Describe the vertical structure of the atmosphere.</li> <li>Provide a practical interpretation of the laws of radiation.</li> <li>What is geostrophic wind and how is it formed?</li> </ol>   |   |                                   |
| Work placement  | Not applicable   |   |                                   |

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