

## Subject card

|                                             |                                                                                                    |                                                          |                                         |                                     |         |                                                                                                                                                |     |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Subject name and code                       | Coastal geodynamics - laboratory exercises, PG_00117770                                            |                                                          |                                         |                                     |         |                                                                                                                                                |     |
| Field of study                              | Oceanography                                                                                       |                                                          |                                         |                                     |         |                                                                                                                                                |     |
| Date of commencement of studies             | October 2025                                                                                       |                                                          | Academic year of realisation of subject |                                     |         | 2026/2027                                                                                                                                      |     |
| Education level                             | Master's studies                                                                                   |                                                          | Subject group                           |                                     |         | Obligatory subject group in the field of study<br>Optional subject group<br>Subject group related to scientific research in the field of study |     |
| 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                            |                                     |         | 2.0                                                                                                                                            |     |
| Learning profile                            | academic                                                                                           |                                                          | Assessment form                         |                                     |         | credit                                                                                                                                         |     |
| Conducting unit                             | Department of Geophysics -> Faculty of Oceanography and Geography -> Rector                        |                                                          |                                         |                                     |         |                                                                                                                                                |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                 |                                                          | dr hab. Leszek Łęczyński                |                                     |         |                                                                                                                                                |     |
|                                             | Teachers                                                                                           |                                                          |                                         |                                     |         |                                                                                                                                                |     |
| Lesson types                                | Lesson type                                                                                        | Lecture                                                  | Tutorial                                | Laboratory                          | Project | Seminar                                                                                                                                        | SUM |
|                                             | Number of study hours                                                                              | 0.0                                                      | 0.0                                     | 15.0                                | 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                                                       |                                         | 12.0                                |         | 25.0                                                                                                                                           | 52  |
| Subject objectives                          | Introduction to the terminology of processes and conditions of coastal formation on the sea coast. |                                                          |                                         |                                     |         |                                                                                                                                                |     |

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|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Learning outcomes                                              | Course outcome                                                                                                                                                                                                                                                | Subject outcome                                                                                                                                                                                                                                                                | Method of verification              |
|                                                                | [OCEANMU2-W02] knows and understands complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as complex relationships between living and non-living elements of the aquatic environment    | Understands and understands, to a deeper degree, the complex processes and phenomena taking place in the marine environment with particular emphasis on the coastal zone and the complex interrelationships between animate and inanimate elements of the aquatic environment. | [SW3] text preparation/written work |
|                                                                | [OCEANMU2-U04] is ready to develop in an analytical and synthetic way research and analysis results and based on them creating conclusions                                                                                                                    | Can analytically and synthetically process the results of research and analysis and, based on this, make correct conclusions in the field of coastal geodynamics                                                                                                               | [SU3] text preparation/written work |
|                                                                | [OCEANMU2-U05] is able to use source information in Polish and a selected foreign language, including archival and electronic databases, in the field of oceanographic issues, performs critical analysis and synthesis of information                        | He/she can use source information, in Polish and a selected foreign language, including archival and electronic databases, in the field of oceanography; he/she carries out a critical analysis and synthesis of information concerning the problems of coastal geodynamics.   | [SU3] text preparation/written work |
|                                                                | [OCEANMU2-U02] can use scientific terminology fluently and appropriately in presenting and discussing problems in the field of oceanography                                                                                                                   | Be able to use scientific terminology fluently and appropriately in presenting and discussing problems in oceanography in the field of coastal geodynamics in presenting and discussing problems concerning it                                                                 | [SU3] text preparation/written work |
|                                                                | [OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)                                                                                                   | He/she knows and understands specialist terminology in oceanography and related sciences (in Polish and a selected foreign language) relevant to coastal geodynamics.                                                                                                          | [SW3] text preparation/written work |
| Subject contents                                               | The use of aerial photo interpretation for shoreline geodynamic characterisation.Principles of shoreline geodynamic mapping.Methods for assessing the stability of cliff shores.Characterisation of standard lithological features of coastal zone sediments. |                                                                                                                                                                                                                                                                                |                                     |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                |                                     |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                      | Passing threshold                                                                                                                                                                                                                                                              | Percentage of the final grade       |
|                                                                | evaluation of the project work                                                                                                                                                                                                                                | 51.0%                                                                                                                                                                                                                                                                          | 100.0%                              |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                              |                                     |
|                                                                | Supplementary literature                                                                                                                                                                                                                                      | -                                                                                                                                                                                                                                                                              |                                     |
|                                                                | eResources addresses                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                |                                     |
| Example issues/<br>example questions/<br>tasks being completed | -                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                     |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                |                                     |

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