University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | Principles of Marine Botany - lecture, PG_00205277 | | |
| Field of study | Oceanography | | |
| Date of commencement of studies | October 2027 | Academic year of realisation of subject | 2029/2030 |
| Education level | Bachelor'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 | 3 | Language of instruction | Polish |
| Semester of study | 5 | ECTS credits | 2.0 |
| Learning profile | academic | Assessment form | exam |
| Conducting unit | Department of Marine Ecosystems Functioning -> Faculty of Oceanography and Geography -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. Sylwia Śliwińska, prof. UG | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |

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 | 30 | 2.0 | 18.0 | 50 |

**Subject objectives**

To familiarise with the taxonomic division of the plant world and prokaryotic organisms associated with the marine environment, learning about their structure, habitat, importance.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [OCEANL3-W05] has an advanced knowledge of techniques, research methods, and tools (mathematical, statistical, and computational) used by oceanographers to describe and interpret processes and phenomena occurring in the marine environment | Student knows at an advanced level the techniques, research methods and tools (mathematical, statistical, IT) used in the work of marine botanist in order to describe and interpret processes and phenomena occurring in the marine environment. | [SW4] test/exam - oral or written |
| [OCEANL3-W03] has an advanced understanding of the relationships between living and non-living components of aquatic environments, and is aware of the complex nature, intricacy, and natural variability of these environments | Student knows and understands the relationships between living and non-living elements of the aquatic environment, is aware of the comprehensive nature of aquatic environments, their complexity and natural variability, especially regarding phytoplankton and marine phytobenthos. | [SW4] test/exam - oral or written |
| [OCEANL3-U03] is able to process, describe, and present results, and draw conclusions | Student is able to develop, describe and present research results and, on this basis, formulate conclusions regarding phytoplankton and marine phytobenthos communities. | [SU4] test/exam - oral or written |

<table>
<tr><td>Subject contents</td><td>1. Lecture topics and basic definitions.<br>2. Viruses in the marine environment.<br>3. The world of prokaryotic organisms (archaebacteria, eubacteria, cyanobacteria, prochlorophytes) found in the marine environment.<br>4. Sea mushrooms.<br>5. Marine micro- and macroalgae (glaucophytes, dinoflagellates, Chlorarachniophyta, euglenins, chrysophytes, cryptophytes, rapidophytes, green algae, brown algae, red algae).<br>6. Marine seed plants.<br>7. The latest directions in the development of marine botany and related fields of knowledge.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. Szweykowska A., Szweykowski J., 2003, Botanika, Tom I Morfologia, PWN, Warszawa<br>2. Szweykowska A., Szweykowski J., 2003, Botanika, Tom II Systematyka, PWN, Warszawa<br>3. Pliński M. i in., 2008-2012, Glony Zatoki Gdańskiej i wód przyległych, część I-VIII, Wydawnictwo Uniwersytetu Gdańskiego</td></tr><tr><td>Supplementary literature</td><td>1. Kadłubowska J., 1975, Zarys algologii, PWN, Warszawa</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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