University of Gdańsk

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Marine Biodiversity - lecture, PG_00118064 | | |
| Field of study | Oceanography | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | 2025/2026 |
| Education level | undergraduate studies | Subject group | Obligatory subject group 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 | 4 | ECTS credits | 2.0 |
| Learning profile | academic | Assessment form | |
| Conducting unit | Katedra Ekologii Morza -> Faculty of Oceanography and Geography | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. Urszula Janas | |
| | 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

Additional information:
Learning methods: lecture with multimedia presentation, discussion, questions

**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 | 8.0 | 15.0 | 53 |

**Subject objectives**

To familiarise students with biodiversity at different levels of organisation, its value for ecosystem and humans, threats and ways of protection

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| OCEANL3-W06 | He or she knows and understands the principles of management of living marine resources and the consequences of the threats to marine | [SW4] test/exam - oral or written |
| OCEANL3-W04 | He or she has an advanced knowledge and understanding of marine biodiversity research issues and problems and how they relate to other disciplines. | [SW4] test/exam - oral or written |

<table>
<tr><td>Subject contents</td><td>Categories of biodiversity, methods of estimating the number of species, the use and non-use value of biodiversity and the effects of its reduction. Use of species in medicine, cosmetology and other areas of life.Functional diversity, keystone species, engineering speciesHabitat and biotope diversity; Hydrothermal vents, cold seeps, coral reefs, hypersaline deep sea basins, whale graveyardsMorphological, phenotypic and genotypic diversityBehavioural and physiological diversity and reproductive diversity Threats to marine biodiversity i.a.: habitat destruction and fragmentation, trade, overexploitation, invasive alien species, eutrophication, hypoxia, climate change, acydification, litter (microplastics), underwater noise, electromagnetic fields, artificial lightForms of biodiversity conservation: conservation and active protection, marine protected area systems, international agreements for the protection of marine biodiversity, bio-education</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>Written exam with open and test questions</td><td>51.0%</td><td>100.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Gaston K.J., Spicer J. I., 2008. Biodiversity: An Introduction. 6th Edition. Blackwell Publishing.<br><br>Barnes R.S.K., Calow P., Olive P.J.W., Golding D.W., Spicer J.I., 2007. The Invertebrate: a Synthesis. 4th Edition. Blackwell Publishing, 288 str.</td></tr>
<tr><td>Supplementary literature</td><td>Snoeijs-Leijonmalm P., Schubert H., Radziejewska T., (Red.), 2017, Biological oceanography of the Baltic Sea. Springer Science & Business Media, 682 str.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</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>
</table>

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