**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Marine and coastal ecology** | | | | |
| **Study programme** | **Specialist professional graduate study Occupational Safety** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | W | **ECTS credits** | 5 |
| **Teaching plan**  **(L + E + S+ Pr)** | 2+1+1+0 | | | | |
| **Goals of a course** | | | | | |
| To acquaint students with the structure and basic principles of functioning of ecological systems. Identify sources of potentially toxic compounds in the environment and how they affect ecosystems and human health. Learn ways to monitor the environment. To consider technological measures as well as measures of good management of technological processes in order to protect the natural environment from anthropogenic activity. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Distinguish basic concepts in ecology and environmental protection. 2. Interpret the structure and function of ecological systems. 3. Critically evaluate the characteristics of pollutants and their circulation in the environment. 4. Predict the impact of anthropogenic activities on ecosystems. 5. Recommend protection measures for ecological systems and human health from anthropogenic impact. | | | | | |
| **Content of a course** | | | | | |
| Fundamental definitions and principles of ecology. Biological diversity and sustainability. Pollution of the sea, coastline and land. Modelling in ecosystems. Conservation of natural resources: air, sea and land. Management of the environment. Strategic assessment of the impact on the landscape. Urbanisation of the landscape. Technological development and the environment. Acceptable technologies. | | | | | |
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