**Incoming student mobility**

**Name of UNIOS University Unit: Department of Biology**

**COURSES OFFERED IN FOREIGN LANGUAGE**

**FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

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| **Department or Chair within the UNIOS Unit** | **Department of Biology** |

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| **Study program** | **Graduate University Study Programme in Biology** |

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| **Study level** | **Graduate (master)** |

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| **Course title** | **Underwater biological research** |
| **Course code (if any)** | **BMZ93** |
| **Language of instruction** | **English** |
| **Brief course description** | The aim of the course is to provide students theoretical and practical knowledge about modern biological research under the water, their planning and implementation. After completion of the course student will be able to independently perform a simple underwater research. Lecture and laboratory exercises topics include following: Specificity of underwater biological research. Specificity and differences of freshwater and sea.  Research in river flows. Probing the water column.  Probing sediment. Underwater navigation and location survey. Methods of identification. Methods of underwater mapping. Research from surface. Forms of sampling schemes. Peculiarities of staying under water. The theory of scuba diving. Underwater vessels and their applications in biological research. Ecological data collection. Bottom sediment sampling. Sampling the water column. Using IR cameras for inspection and research. The use of sonar.  Making sketches and profile sampling. Diving with autonomous diving equipment. |
| **Form of teaching** | **Laboratory exercises.** |
| **Form of assessment** | **Written and oral examination.** |
| **Number of ECTS** | **2** |
| **Class hours per week** | **2 hours of laboratory exercises** |
| **Minimum number of students** | **-** |
| **Period of realization** | **summer semester** |
| **Lecturer** | **Branimir K. Hackenberger, PhD, Full Professor** |