**Incoming student mobility**

**Name of UNIOS University Unit: FACULTY OF CIVIL ENGINEERING OSIJEK**

**COURSES OFFERED IN FOREIGN LANGUAGE**

**FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

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| **Department or Chair within the Faculty** | **Department for Geotechnics, Transportation and Geodesy** |

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| **Study program** | **Graduate university study programme** |

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| **Study level** | ***2nd cycle*** |

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| **Course title** | **GIS in Hydrotechnics / GIS in Hydrotechnik (germ.)** |
| **Course code** | **2.05-421** |
| **Language of instruction** | **German / Deutsch** |
| **Course description** | Learn basic concept of GIS. Know and work with some GIS software.  Overall view and definition of GIS. Spatial data. Vector model, raster and hybrid model. Components of GIS: data, hardware and software. Technology of GIS: data collecting, data modeling (geometrical, topological, thematic), data base. Making of date base, analyzing spatial data, presentation of results. Implementation areas of GIS. Web cartography. Types of maps on web. Web GIS. |
| **Form of teaching** | Lectures / Laboratory exercises |
| **Form of assessment** | **Two colloquiums or** exam (oral and written) |
| **Number of ECTS** | **5** |
| **Class hours per week** | **2 + 2** |
| **Minimum number of students** | **1** |
| **Period of realization** | ***Summer semester*** |
| **Lecturer** | **Brankica Malić, Ph.D. in Geodesy; Associate Professor** |