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|---|--------------------------|---|
| <b>Module title</b>   |                          | <b>Abbreviation</b>                         |
| Environmental Monitoring  |                          | 10-I-UB-212-m01                             |
| <b>Module coordinator</b>   |                          | <b>Module offered by</b>                    |
| holder of the Professorship for sensors and embedded systems for earth observation  |                          | Institute of Computer Science               |
| <b>ECTS</b>   | <b>Method of grading</b> | <b>Only after succ. compl. of module(s)</b> |
| 5   | numerical grade          | --  |
| <b>Duration</b>   | <b>Module level</b>      | <b>Other prerequisites</b>                  |
| 1 semester  | undergraduate            | --  |
| <b>Contents</b>   |                          |   |
| The module teaches basic methods of environmental observation, suitable indicators and sensors for the collection of environmental data, methods for the qualitative and quantitative evaluation of the collected environmental data, further analysis and visualization of environmental data. |                          |   |
| <b>Intended learning outcomes</b>   |                          |   |
| The students know important indicators and procedures for environmental observation. They will be able to develop concepts for environmental monitoring with technical sensors and devices, as well as to evaluate the measurement data with suitable methods.                                  |                          |   |
| <b>Courses</b> (type, number of weekly contact hours, language – if other than German)  |                          |   |
| V (2) + Ü (2)   |                          |   |
| <b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)  |                          |   |
| written examination (approx. 60-120 minutes)<br>if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 15 minutes)<br>creditable for bonus              |                          |   |
| <b>Allocation of places</b>   |                          |   |
| --  |                          |   |
| <b>Additional information</b>   |                          |   |
| --  |                          |   |
| <b>Workload</b>   |                          |   |
| 150 h   |                          |   |
| <b>Teaching cycle</b>   |                          |   |
| Teaching cycle: every year, summer semester   |                          |   |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)  |                          |   |
| --  |                          |   |
| <b>Module appears in</b>  |                          |   |
| Bachelor' degree (1 major) Computer Science und Sustainability (2021)   |                          |   |