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| Module title | | Abbreviation |
| Sustainability and IT | | 10-I-NIT-212-m01 |
| Module coordinator | | Module offered by |
| Dean of Studies Informatik (Computer Science) | | Institute of Computer Science |
| ECTS | Method of grading | Only after succ. compl. of module(s) |
| 5 | numerical grade | -- |
| Duration | Module level | Other prerequisites |
| 1 semester | undergraduate | -- |
| Contents | | |
| <p>The module addresses social challenges in relation to sustainability, concepts for sustainability, and sustainability goals. The students get an overview of environmental informatics, sustainability informatics, and computational methods for environmental protection and environmental research. The subject areas of the study program are treated as application areas. Other foci are the effect of information technology through its provision and use, the environmental and sustainability balance of IT, and methods for designing sustainable IT systems.</p> | | |
| Intended learning outcomes | | |
| <p>In the module, students learn what sustainability and sustainability goals are, what direct and indirect effects information technology has on the environment and society, and how information technology can contribute to solving environmental problems and sustainability challenges. Basics for sustainable information technology are learned.</p> | | |
| Courses (type, number of weekly contact hours, language – if other than German) | | |
| V (2) + Ü (2) Module taught in: German and/or English | | |
| Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) | | |
| <p>written examination (approx. 60-120 minutes) 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) Module taught in: German and/or English creditable for bonus</p> | | |
| Allocation of places | | |
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| Additional information | | |
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| Workload | | |
| 150 h | | |
| Teaching cycle | | |
| Teaching cycle: every year, winter semester | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
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| Module appears in | | |
| Bachelor' degree (1 major) Computer Science und Sustainability (2021) | | |