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| <b>Module title</b>  |                              | <b>Abbreviation</b>  |
| Teaching Science with Hands-on-Exhibits (Physics)  |                              | 11-MIND-Ph2-121-m01  |
| <b>Module coordinator</b>  |                              | <b>Module offered by</b>   |
| holder of the Chair of Physics and its Didactics   |                              | Faculty of Physics and Astronomy   |
| <b>ECTS</b>  | <b>Method of grading</b>     | <b>Only after succ. compl. of module(s)</b>  |
| 2  | (not) successfully completed | --   |
| <b>Duration</b>  | <b>Module level</b>          | <b>Other prerequisites</b>   |
| 1 semester   | undergraduate                | This module can be chosen by students studying at least one subject in the natural sciences. |
| <b>Contents</b>  |                              |  |
| Designing and creating hands-on exhibits for STEM subjects.  |                              |  |
| <b>Intended learning outcomes</b>  |                              |  |
| The students evaluate the advantages and disadvantages of the hands-on approach for teaching scientific contents in and out of school. They plan and implement an interdisciplinary science exhibition as an example of project-oriented work with pupils of secondary level I and II.   |                              |  |
| <b>Courses</b> (type, number of weekly contact hours, language – if other than German)   |                              |  |
| S (no information on SWS (weekly contact hours) and course language available)   |                              |  |
| <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)   |                              |  |
| a) written examination (approx. 45 minutes) or b) term paper (approx. 8 pages, time to complete: 1 to 4 weeks) or c) examination of one candidate each (approx. 10 minutes) or d) examination in groups (approx. 20 minutes, groups of 2)  |                              |  |
| <b>Allocation of places</b>  |                              |  |
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| <b>Additional information</b>  |                              |  |
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| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)   |                              |  |
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| <b>Module appears in</b>   |                              |  |
| <p>First state examination for the teaching degree Grundschule Physics (2009)</p> <p>First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2009)</p> <p>First state examination for the teaching degree Hauptschule Physics (2009)</p> <p>First state examination for the teaching degree Hauptschule Didactics in Physics (Secondary School) (2009)</p> <p>First state examination for the teaching degree Realschule Physics (2009)</p> <p>First state examination for the teaching degree Gymnasium Physics (2009)</p> <p>First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Secondary School) (2009)</p> <p>First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2013)</p> <p>First state examination for the teaching degree Mittelschule Physics (2013)</p> <p>First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2013)</p> |                              |  |