

Module description

Module title					Abbreviation
Modern Physics 11-P-MPH-092-m01					
Module coordinator				Module offered by	
Managing Director of the Institute of A			oplied Physics Faculty of Physics and Astronomy		
ECTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate	Prior successful completion of modules 11-P-E and 11-P-MP1 is recom- mended. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew.		
Contente					
important concepts and applications; Applied and Technical Physics: Physics and information/communication technology; rules and process technology, sensors; medical technology; climate and weather; Biophysics; ecology; energy; celestial mechanics, satellites, GPS; measuring devices; el. light sources; displays Intended learning outcomes The students have structured knowledge of the aforementioned terms. They understand complex systems of nature and engineering and are able to connect their own physical knowledge in a synergetic manner by analysing the solutions to selected, complex problems. Courses (type, number of weekly contact hours, language – if other than German) V + Ü (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for honus)					
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 20 minutes per candidate)					
Allocation of places					
Additional information					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. b) Physik Aufbau der Materie					
Module appears in					
First state examination for the teaching degree Grundschule Physics (2009) First state examination for the teaching degree Hauptschule Physics (2009) First state examination for the teaching degree Mittelschule Physics (2013)					
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