Module description

Module title				Abbreviation
Computati	onal Physics			11-A1-092-m01
Module coordinator			Module offered by	
Managing Director of the Institute of Theoretical Physics			Faculty of Physics and Astronomy	
and Astrophysics				
ECTS Me	ethod of grading	Only after succ. compl. of module(s)		
6 nu	merical grade			
Duration Module level		Other prerequisites		
1 semester undergraduate		Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered 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.		
Contents				
 - simulation of chaotic systems - generation of random numbers - random walk - many-particle processes and reaction diffusion model Intended learning outcomes The students have knowledge of two major programming languages and know algorithms important for Physics. They have knowledge of numerical standard methods and are able to apply computer-assisted processes to the solution of physical problems, e.g. algorithms for solving numerical problems of Physics.				
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 bonus)				
written examination (approx. 120 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.				
Allocation of places				
Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.				
Additional information				
Workload				
 Teaching cucle				
Teaching cycle				
 Referred to in LPO I (examination regulations for teaching-degree programmes)				

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Module appears in

Bachelor' degree (1 major) Physics (2010) Bachelor' degree (1 major) Physics (2012) Bachelor' degree (1 major) Nanostructure Technology (2010) Bachelor' degree (1 major) Nanostructure Technology (2012) Bachelor' degree (1 major) Mathematical Physics (2009) Bachelor' degree (1 major) Mathematical Physics (2012) Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010)

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