

Module title					Abbreviation
Practical Course A					11-P-PA-092-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Applied Physics				Faculty of Physics and Astronomy	
ECTS	ECTS Method of grading		Only after succ. compl. of module(s)		
5 (not) successfully completed					
Duration		Module level	Other prerequisites	ther prerequisites	
1 semester		undergraduate			
Contents					
Physical laws of mechanics, thermodynamics, science of electricity, types of error, error approximation and pro- pagation, graphs, linear regression, average values and standard deviation, distribution functions, significance tests, writing of lab reports and publications.					
Intended learning outcomes					
The students know and have mastered physical measuring methods and experimenting techniques. They are ab- le to independently plan and conduct experiments, to cooperate with others, and to document the results in a measuring protocol. They are able to evaluate the measuring results on the basis of error propagation and of the principles of statistics and to draw, present and discuss the conclusions.					
Courses (type, number of weekly contact hours, language — if other than German)					
Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (winter semester) Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester. information on whether					
module is creditable for bonus)					
 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 120 minutes) 2. Lab course: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). 					
Successful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1.					
To pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to retake element a) and/or element b).					
Students must register for assessment components 1 and 2 online (details to be announced). Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) befo- re attending Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity). To pass this module, students must pass both assessment component 1 and assessment component 2.					
Allocation of places					
Additio	nal info	ormation			
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. c) Physik physikalische Grundpraktika § 77 (1) 1. d) Physik "physikalische Praktika" 					
Module appears in					

Bachelor' degree (1 major) Mathematics (2014)

Julius-Maximilians-UNIVERSITÄT WÜRZBURG



Bachelor' degree (1 major) Physics (2010) Bachelor' degree (1 major) Nanostructure Technology (2010) Bachelor' degree (1 major) Mathematical Physics (2009) Bachelor' degree (1 major) Computational Mathematics (2014) Bachelor' degree (1 major) Aerospace Computer Science (2009) Bachelor' degree (1 major) Aerospace Computer Science (2014) Bachelor' degree (1 major) Aerospace Computer Science (2011) Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010) No final examination (2010)

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