

Module description

Module title Data and Error Analysis					Abbreviation
				11-P-FR1-152-m01	
Module coordinator				Module offered by	
Managi	ing Dire	ector of the Institute of A _l	pplied Physics	Faculty of Physics and Astronomy	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)		
2	(not)	successfully completed			
Duration Module level		Module level	Other prerequisites		
1 semester		undergraduate	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.		

Contents

Types of errors, error approximation and propagation, graphic representations, linear regression, mean values and standard deviation.

Intended learning outcomes

The students are able to evaluate 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)

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Module taught in: Ü: German 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)

written examination (approx. 120 minutes)

Language of assessment: German and/or English

Allocation of places

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Additional information

Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.

Workload

60 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 53 | Nr. 1 c) § 77 | Nr. 1 d)

Module appears in

Bachelor' degree (1 major) Mathematics (2015)

Bachelor' degree (1 major) Physics (2015)

Bachelor' degree (1 major) Nanostructure Technology (2015)



Module description

Bachelor' degree (1 major) Mathematical Physics (2015)

Bachelor' degree (1 major) Computational Mathematics (2015)

Bachelor' degree (1 major) Aerospace Computer Science (2015)

Bachelor' degree (1 major) Functional Materials (2015)

Bachelor's degree (1 major, 1 minor) Physics (Minor, 2015)

First state examination for the teaching degree Grundschule Physics (2015)

First state examination for the teaching degree Realschule Physics (2015)

First state examination for the teaching degree Gymnasium Physics (2015)

First state examination for the teaching degree Mittelschule Physics (2015)

Bachelor' degree (1 major) Mathematical Physics (2016)

Bachelor' degree (1 major) Aerospace Computer Science (2017)

First state examination for the teaching degree Grundschule Physics (2018)

First state examination for the teaching degree Realschule Physics (2018)

First state examination for the teaching degree Gymnasium Physics (2018)

First state examination for the teaching degree Mittelschule Physics (2018)

Bachelor' degree (1 major) Physics (2020)

Bachelor' degree (1 major) Nanostructure Technology (2020)

Bachelor' degree (1 major) Mathematical Physics (2020)

Bachelor's degree (1 major, 1 minor) Physics (Minor, 2020)

Bachelor' degree (1 major) Aerospace Computer Science (2020)

First state examination for the teaching degree Grundschule Physics (2020)

First state examination for the teaching degree Gymnasium Physics (2020)

First state examination for the teaching degree Realschule Physics (2020)

First state examination for the teaching degree Mittelschule Physics (2020)

Bachelor' degree (1 major) Functional Materials (2021)

Bachelor' degree (1 major) Quantum Technology (2021)

Bachelor' degree (1 major) Mathematics (2023)

exchange program Physics (2023)

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