# Module Description

## Module Title
Measurements and Data Analysis

## Abbreviation
11-P-FR-122-m01

## Module Coordinator
Managing Director of the Institute of Applied Physics

## Module Offered by
Faculty of Physics and Astronomy

## ECTS
2

## Method of Grading
Only after successfully completed module(s)

## Duration
1 semester

## Module Level
Undergraduate

## Other Prerequisites
Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.

## Contents
Types of error, error approximation and propagation, graphs, linear regression, average values and standard deviation, distribution functions, significance tests, writing of lab reports and publications.

## Intended Learning Outcomes
In this module, the students acquire subject-specific transferable skills. They have knowledge of practical experimental work, error propagation and the principles of statistics.

## Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

## Method of Assessment
Written examination (approx. 120 minutes)

## Allocation of Places
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## Additional Information
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## Referred to in LPO I
§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie
§ 53 (1) 1. c) Physik physikalische Grundpraktika
§ 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik"

## Module Appears in
keinem Studiengang zugeordnet