### Module Title

**Measurements and Data Analysis**

### 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

### 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 semesters.

### 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

Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.

### Additional Information

Course offered every year, winter semester.

### Referred to in LPO I

(examination regulations for teaching-degree programmes)

### Module Appears in

Keinem Studiengang zugeordnet