### Module title
Laboratory Course Physics C for Space and Aerospace Computer Science

### Abbreviation
11-P-LRC-152-m01

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

### Module offered by
Faculty of Physics and Astronomy

### ECTS
4

### Method of grading
Only after succ. compl. of module(s)

### Duration
undergraduate

### Other prerequisites
Students are highly recommended to complete module 11-P-LRB prior to completing module 11-P-LRC.

## Contents
Physical laws of wave optics, Molecular, Atomic and Nuclear Physics and modern measuring methods using special computerised devices with examples from optics and Solid-State Physics.

## Intended learning outcomes
The students are able to build and almost independently operate advanced experimental setups. They are able to record measuring results in a structured manner, even in case of huge data traffic, and to analyse the results by using error propagation and statistics. They are able to evaluate results, to draw conclusions and to present and discuss them in a scientific paper and a presentation.

### Courses
(type, number of weekly contact hours, language — if other than German)
P (2)

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
practical assignment with talk (approx. 30 minutes)
Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully completed if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate’s understanding of the physics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)
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### Module appears in
Bachelor' degree (1 major) Aerospace Computer Science (2015)
Bachelor' degree (1 major) Aerospace Computer Science (2017)
Bachelor' degree (1 major) Aerospace Computer Science (2020)