Module title

Advanced Laboratory Course Mathematical Physics C

Abbreviation

11-P-MPC-122-m01

Module coordinator

Managing Director of the Institute of Applied Physics

Module offered by

Faculty of Physics and Astronomy

ECTS

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Method of grading

Only after succ. compl. of module(s)

(not) successfully completed

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Duration

1 semester

Module level

undergraduate

Other prerequisites

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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 know and have mastered physical measuring methods and experimenting techniques. They are able 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

(P (no information on SWS (weekly contact hours) and course language available)

Method of assessment

(a) Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (exam) is passed. Experiments that were not successfully completed can be repeated once. And (b) talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. 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

Additional information on module duration: 1 to 2 semesters.

Referred to in LPO I

(examination regulations for teaching-degree programmes)

Module appears in

Bachelor' degree (1 major) Mathematical Physics (2012)