PHY-B-P 5

Effective WS 2011/12

Advanced Physics Laboratories I
Physics / the faculty, the Dean of Studies
 AFM (atomic force microscopy) Fuel cell Diode-pumped solid-state laser ESR – ferromagnetic resonance Fourier spectroscopy Holography Nuclear spectroscopy Laser Magneto-optics and magnetic anisotropy NMR (nuclear magnetic resonance) Operational amplifier Optical absorption Optical phase conjugation Optical pumping Pockels effect X-ray diffraction X-band radar
Mostly independent, concrete measuring of physical effects, familiarization with and handling of specific measuring devices and test assemblies, and compiling of a meaningful report, which includes an evaluation and error analysis.
See prerequisite courses
Modules PHY-B-P 3, PHY-B-P 4 (laboratories A,B)
BSc. in Physics. It can also be used for a BSc. in Nanoscience and in Teacher Training in Secondary Education – Physics; it is the standard, however, to attend separate modules according to the corresponding examination regulations.
On a semiannual basis
1 semester
Minimum: 4
Workload: Total number of hours: 240 Allocation: 1. Attendance: 10 credit hours 2. Independent study (including exam preparation / exam): 90 hours Credit points: 8 the requirements below have been met.

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Nr.	Req./req. elective	Form of teaching	Subject area / topic Advanced physics laboratories I		Credi hour:		Coursework Experiments, lab; experiment setup and execution, experiment reports, regular attendance	
-P 5. 1	Compulsory	Laboratories			10	and execution, ex		
Nr.	Competence / topic		Type of exam	Dura	ation	Time / notes	Weighting for module grade	
14. No	otes:						1	