

Module title					Abbreviation
Advanced Practical Course Master					11-PFM-072-m01
Module coordinator				Module offered by	
Managi	ng Dire	ector of the Institute of Ap	plied Physics Faculty of Physics and Astronomy		
ECTS Method		od of grading	Only after succ. compl. of module(s)		
6	(not) successfully completed 11-E1, 11-E2				
Duration		Module level	Other prerequisites		
1 semester		graduate	11-A3		
Contents					
Principles of Nuclear, Atomic and Molecular Physics, experiments on cryogenic temperatures and correlated sy- stems, properties of solids, surfaces and interfaces. Experiments on the following topics: X-rays - nuclear magne- tic resonance (NMR) - quantum Hall effect - optical pumping and spectroscopy in the field of optics - Hall effect - superconductivity - laser - solid-state optics					
Intended learning outcomes					
Knowledge of conducting experiments, analysing and documenting experimental results, basic knowledge of is- suing scientific publications, application of modern evaluation systems, working on a task based on publicati- ons and acquiring practical experimental methods.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 1: P (3 weekly contact hours), Ger- man or English Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 2: P (3 weekly contact hours), Ger- man or English					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether					
This module has the following assessment components					
<ol> <li>Lab course in part 1 (Fortgeschrittenen-Praktikum Master/Advanced Practical Course Master Part 1): a) Preparing the experiment will be considered successfully completed if an oral test (approx. 30 minutes) is passed prior to the experiment. b) Performing and evaluating the experiment will be considered successfully completed if a test is passed. Students must prepare an experiment log (approx. 8 pages).</li> <li>Lab course in part 2 (Fortgeschrittenen-Praktikum Master/Advanced Practical Course Master Part 2): a) Preparing the experiment will be considered successfully completed if an oral test (approx. 30 minutes) is passed prior to the experiment will be considered successfully completed if an oral test (approx. 30 minutes) is passed prior to the experiment will be considered successfully completed if an oral test (approx. 30 minutes) is passed prior to the experiment. b) Performing and evaluating the experiment will be considered successfully completed if a test is passed. Students must prepare an experiment log (approx. 8 pages).</li> </ol>					
Language of assessment: German or English Students must register for assessment components 1 and 2 online (details to be announced). Students will be offered one opportunity to retake element a) and/or element b) in the respective semester. To pass an assessment component, they must pass both elements (a and b) in the same semester. To pass this module, students must pass both assessment component 1 and assessment component 2.					
Additional information					
Worklo	ad				
Teaching cycle					

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Referred to in LPO I (examination regulations for teaching-degree programmes)

## Module appears in

Master's degree (1 major) Physics (2010) Master's degree (1 major) Nanostructure Technology (2010) Master's degree (1 major) FOKUS Physics - Nanostructuring Technology (2010) Master's degree (1 major) FOKUS Physics (2010) Master's degree (1 major) FOKUS Physics - Nanostructuring Technology (2006) Master's degree (1 major) FOKUS Physics (2006)

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