

<b>Module title</b>		<b>Abbreviation</b>
Advanced Laboratory Course Physics C (Modern Physics, Computer Aided Experiments)		11-P-PC-202-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Managing Director of the Institute of Theoretical Physics and Astrophysics		Faculty of Physics and Astronomy
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
8	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
2 semester	undergraduate	Students are highly recommended to complete module 11-P-PB prior to completing module 11-P-PC.
<b>Contents</b>		
German contents available but not translated yet.		
Physikalische Grundgesetze der Wellenoptik, der Atom-, Molekül- und Kernphysik sowie moderne Messmethoden unter Verwendung von computergesteuerten, speziellen Messgeräten an Beispielen aus der Optik und Festkörperphysik.		
<b>Intended learning outcomes</b>		
German intended learning outcomes available but not translated yet.		
Der/Die Studierende verfügt über die Fähigkeit zum Aufbau und weitgehend selbständigen Betrieb von fortgeschrittenen Versuchsaufbauten. Er/Sie ist in der Lage auch bei massivem Datenaufkommen die Messergebnisse strukturiert zu protokollieren und unter Verwendung von Fehlerfortpflanzung und Statistik zu analysieren. Er/Sie verfügt über die Fähigkeit, die Ergebnisse zu bewerten und Schlussfolgerungen daraus zu ziehen, sowie diese in Form eines wissenschaftlichen Aufsatzes und einer Präsentation darzustellen und zu diskutieren.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
P (2) + P (2) Module taught in: German or English		
<b>Method of assessment</b> (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. Language of assessment: German and/or English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Bachelor' degree (1 major) Physics (2020)		