

Module title				Abbreviation
Imaging Methods at the Synchrotron 11-BMS-121-m01				
Module coordinator			Module offered by	
Managing Director of the Institute of Ap		oplied Physics Faculty of Physics and Astronomy		
ECTS Method of grading		Only after succ. compl. of module(s)		
4 numerical grade				
Duration Module level		Other prerequisites		
1 semeste	r graduate	Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew.		
Contents				
Overview of synchrotron radiation and its generation Principles of the interaction between radiation and mat- ter Principles of X-ray optics, X-ray lens Synchroton detector technique X-ray diffractometry (diffraction) of crystalline materials.				
ciples of imaging techniques at the synchrotron and their application for crystalline materials and other materi- als. They understand the principles of image generation and are able to explain different techniques and inter- pret simple images. <b>Courses</b> (type, number of weekly contact hours, language – if other than German)				
V + R (no information on SWS (weekly contact hours) and course language available)				
<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)				
a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.				
Allocation of places				
Additional information				
Workload				
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) Physics (2011) Master's degree (1 major) Nanostructure Technology (2011)				





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

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