## Module description

Modul	e title				Abbreviation	
Computational Materials Science					11-CMS-122-m01	
Module coordinator				Module offered by		
Manag and As			of Theoretical Physics	Faculty of Physics a	and Astronomy	
ECTS	Meth	od of grading				
8	nume	erical grade				
Duration		Module level	Other prerequisites			
1 semester		graduate	sessment. The lecture at the beginning of sidered a declaration dents have obtained the course of the set sessment into effect ted to assessment i sessment at a later	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 fo admission to assessment anew.		
		<u> </u>	admission to asses	sment anew.		
4-5 top the exe Intend Theore liarity v functio materia	oics of t ercise. ed lear etical tro with DF ons by p als. Kno	the lecture/exercise of the lecture/exercise of the above	(freely chosen by the stud e topics complemented by such as VASP or Wien2k s onto atomic orbitals usin in many-body solutions o	ent) with a little mor / hands-on tutorials and and constructio ng wannier90. Focus f the AIM and explor	presentation about one of the e elaboration on the topic than i to be held in the CIP-Pool. Fami- n of maximally localized Wannie on applications to topological e some of its limiting cases such	
			e impurity solvers based o e DMFT self-consistency eo		tion or continuous-time quantun	
			ours, language — if other than Ge			
			ekly contact hours) and co		able)	
Metho	d of as				ot every semester, information on whether	
(appro d) pres Assess and wi examir	x. 30 m sentatios ment o Il be ar nation i	ninutes per candidate on/seminar presenta offered: When and he	e) or c) project report (app tion (approx. 30 minutes) ow often assessment will n under observance of Se	brox. 8 to 10 pages, t be offered depends (	ch or oral examination in groups ime to complete: 1 to 4 weeks) or on the method of assessment 3 ASPO (general academic and	
Allocat	tion of	places				
Additio	nal inf	formation.				
		ormation				

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## Workload

Teaching cycle

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

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## 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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