Course of Study Materials Science (Study Cohort w22)

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	e course plan B Master Materials Science (MAMS)			Core Qualification Elective Compulsory	Specialisation Elective	Compulsory	Focus Elective Compulsory	Interdisciplinary complement
pecial	lisation Nano and Hybrid Materials							
1	Phenomena and Methods in Materials Science	Multiphase Materials	Advanced Functional Mate	rials		Master Thes	sis	
2	Phase equilibria and transformations VL 2	Lecture: Multiscale Materials VL 3	Advanced Functional Materials		SE 2	riaster riies	515	
	Experimental Methods for the Characterization of Materials VL 2	Polymer Composites VL 3						
3	Übung zu Phänomene und Methoden der Materialwissenschaft HÜ 2							
4								
5								
6								
7	Materials Physics and Atomistic Materials Modeling	Advanced Laboratory Materials Sciences	Study work on Modern Issu	ues in the Materials Sciences				
8	Materials Physics VL 2	Advanced Laboratory Materials Sciences PR 6						
9	Quantum Mechanics and Atomistic Materials Modeling VL 2							
10	Exercises in Materials Physics and Modeling GÜ 2							
11								
12								
13	Applied Computational Methods for Material Science	Mechanical Properties						
14	Applied Computational Methods for Material Science PBL 3	Mechanical Behaviour of Brittle Materials VL 2 Dislocation Theory of Plasticity VL 2						
15		Dislocation meety of historicy						
16								
17								
18								
19	BIO II: Biomaterials	Interfaces and interface-dominated Materials (part 1)	Interfaces and interface de	ominated Materials (part 2)				
20	Biomaterials VL 2	Interfaces VL 2	Nature's Hierarchical Material		SE 2			
21								
22		Quantum Mechanics of Solids Quantum Mechanics of Solids VL 2	Particle Technology and So Advanced Particle Technology	olid Matter Process Technology	VL 2			
23		Quantum Mechanics of Solids VL 2 Quantum Mechanics of Solids GÜ 1	Advanced Particle Technology Advanced Particle Technology		VL 2 PBL 1			
24			Experimental Course Particle		PR 3			
25								
26								
27								
28		BIO II: Artificial Joint Replacement						
29		Artificial Joint Replacement VL 2						
30								
-50	Pusiness C Management (from satalogue) - 6LD							
	Business & Management (from catalogue) - 6LP							
	Non-technical Courses for Master (from catalogue) - 6LP							

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.