Course of Study Materials Science (Study Cohort w22)

-			_		Core Qualification Compulsory			Inesis Compulsory
ample course plan A Master Materials Science	(MAMS)				Core Qualification Elective Compulso	specialisation Elective	Compulsory Focus Elective Compulsory	Interdisciplinary complement
pecialisation Modeling								
Phenomena and Methods in Materials Science Phase equilibria and transformations Experimental Methods for the Characterization of Materials Obung zu Phänomene und Methoden der Materialwissenschaft	VL 2 VL 2 HŪ 2	Multiphase Materials Lecture: Multiscale Materials Polymer Composites	VL 3 VL 3	Advanced Functional Mater Advanced Functional Materials		SE 2	Master Thesis	
5 6								
7 Materials Physics and Atomistic Materials Modeling		Advanced Laboratory Materials Sciences		Study work on Modern Issu	es in the Materials Sciences			
8 Materials Physics Quantum Mechanics and Atomistic Materials Modeling	VL 2 VL 2	Advanced Laboratory Materials Sciences	PR 6					
9 Exercises in Materials Physics and Modeling	GÜ 2							
10								
11								
12								
13 Applied Computational Methods for Material Science		Mechanical Properties		1				
14 Applied Computational Methods for Material Science	PBL 3	Mechanical Behaviour of Brittle Materials	VL 2					
15		Dislocation Theory of Plasticity	VL 2					
16								
17								
18								
19 Materials Modeling		Quantum Mechanics of Solids		Nonlinear Structural Analy				
20 Material Modeling	VL 2	Quantum Mechanics of Solids	VL 2	Nonlinear Structural Analysis	15	VL 3		
Material Modeling	GÜ 2	Quantum Mechanics of Solids	GÜ 1	Nonlinear Structural Analysis		GÜ 1		
21								
22								
23								
24								
25				Continuum Mechanics Continuum Mechanics		VL 2		
26				Continuum Mechanics		GÜ 2		
27								
28								
29								
30								
Business & Management (from catalogue) - 6LP								
Non-technical Courses for Master (from catalogue) -	6LP							

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

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