Course of Study Materials Science (Study Cohort w22)

Sample course plan A Master Materials Science (MAMS) Dual study program				
Specia	lisation Modeling			
1	Phenomena and Methods in Materials Science	Multiphase Materials	Advanced Functional Materials	Master thesis (dual study program)
2	Phase equilibria and transformations VL 2	Lecture: Multiscale Materials VL 3	Advanced Functional Materials SE 2	
2	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				
-				
/	Materials Physics and Atomistic Materials Modeling	Advanced Laboratory Materials Sciences	Study work on Modern Issues in the Materials Sciences	
8	Materials Physics VL 2 Quantum Mechanics and Atomistic Materials Modeling 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		
14	Applied Computational Methods for Material Science PBL 3	Mechanical Behaviour of Brittle Materials VL 2		
15		Dislocation Theory of Plasticity VL 2		
16				
10				
1/				
18				
19	Practical module 1 (dual study program, Master's degree)	Practical module 2 (dual study program, Master's degree)	Practical module 3 (dual study program, Master's degree)	
20	Practical term 1 0	Practical term 2 0	Practical term 3 0	
21				
22				
22				
23				
24				
25				
26				
27				
20				
20				
29	Materials Modeling	Quantum Mechanics of Solids	Nonlinear Structural Analysis	
30	Material Modeling VL 2	Quantum Mechanics of Solids SU 1	Nonlinear Structural Analysis VL 3	
31		Quantum mechanics of solids GO 1		
32				
33				
35				
34				
35			Continuum Mechanics	
36			Continuum Mechanics VL 2 Continuum Mechanics Exercise GÜ 2	
37			00 2	
38				
39				
40				
40				
	Business & Management (from catalogue) - 6LP			
	Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP		

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.