Course of Study Materials Science (Study Cohort w20)

Sample course plan C Master Materials Science (MAMS)					
Specia	lisation Engineering Materials				
1 2 3	Phenomena and Methods in Materials Science Phase equilibria and transformations VL 2 Experimental Methods for the Characterization of Materials VL 2	Multiphase Materials (part 2) Polymer Composites VL 2	Advanced Functional Materials Advanced Functional Materials SE 2	Master Thesis	
4 5 6		Advanced Laboratory Materials Sciences Advanced Laboratory Materials Sciences PR 6			
7 8 9	Multiphase Materials (part 1) Lecture: Multiscale Materials VL 6		Study work on Modern Issues in the Materials Sciences		
10 11 12 13 14 15	Materials Physics and Atomistic Materials Modeling VL 2 Materials Physics VL 2 Quantum Mechanics and Atomistic Materials Modeling VL 2 Exercises in Materials Physics and Modeling G0 2	Mechanical Properties Mechanical Behaviour of Brittle Materials VL 2 Dislocation Theory of Plasticity VL 2			
16 17 18 19 20 21	Applied Computational Methods for Material Science Applied Computational Methods for Material Science PBL 3	Fibre-polymer-composites VL 2 Design with fibre-polymer-composites VL 2 Structure and properties of fibre-polymer-composites VL 2	Examination of Materials, Structural Condition and Damages Examination of Materials, Structural Condition and Damages VL 3 Examination of Materials, Structural Condition and Damages GÜ 1		
22 23 24 25 26	Polymers Structure and Properties of Polymers VL 2 Processing and design with polymers VL 2				
27 28 29 30					
	Business & Management (from catalogue) - 6LP				
	Non-technical Courses for Master (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.