## Course of Study Materials Science (Study Cohort w16) General Science (Study Cohort w16)

Sample course plan A Master Materials Science (MAMS) Specialisation Modeling

Core qualification Compulsory

Core qualification Elective Compulsory

Compulsory

Specialisation Compulsory

Focus Compulsory

Focus Elective Compulsory

Interdisciplinary complement

					Compulsory	Compulsory		
LP	Semester 1	Form Hrs/w	kSemester 2	Form Hrs/w	kSemester 3	Form Hrs/w	kSemester 4	Form Hrs/wk
1 2	Multiphase Materials		Phenomena and Methods in Materials Sc	ience	Advanced Functional Materials		Master Thesis	
3	Structure and Properties of Composites	VL 2	Phase equilibria and transformations	VL 2	Advanced Functional Materials	VL 2		
4	Applied Computational Methods for Material	PBL 3	Experimental Methods for the	VL 2				
5	Science		Characterization of Materials					
6								
7	Materials Physics and Atomistic Materials	Modeling	Advanced Laboratory Materials Sciences		Project work on Modern Issues in the	Matoriale		
8	Materials Physics	VL 2	Advanced Laboratory Materials Sciences	PR 6	Sciences	waterials		
9	Atomistic Materials Modeling	VL 2	Advanced Laboratory Waterials Sciences	rn 0				
10	Atomistic Materials Modeling	VL Z						
11								
12								
13	Lecture: Multiscale Materials		Mechanical Properties					
15	Multiscale Materials	VL 6	Mechanical Behaviour of Brittle Materials	VL 2				
16			Dislocation Theory of Plasticity	VL 2				
17								
18								
19	Material Modeling		Modeling Across The Scales		Nonlinear Structural Analysis			
20	Material Modeling	VL 2	Modeling Across The Scales	VL 2	Nonlinear Structural Analysis	VL 3		
21	Material Modeling	UE 2	Modeling Across The Scales - Excercise	UE 2	Nonlinear Structural Analysis	UE 1		
22	atoma modeling	02 2	incoming reverse the source Execution	02 -	Tronimodi Grigorala / mayero	0		
23								
25								
26					Continuum Mechanics			
27					Continuum Mechanics	VL 2		
28					Continuum Mechanics Exercise	UE 2		
29								
30								
	Business & Management (from catalogue) - 6							
	Nontechnical Elective Complementary Course							

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