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

Sample course plan B Master Materials Science (MAMS) Specialisation Nano and Hybrid Materials

Core qualification Compulsory

Core qualification Elective Compulsory

Core qualification Elective Compulsory

Compulsory

Specialisation Compulsory

Focus Compulsory

Focus Elective Compulsory

Interdisciplinary complement

					Compaisory	Compulsory	
LP	Semester 1	Form Hrs/w	kSemester 2	Form Hrs/w	kSemester 3	Form Hrs/w	kSemester 4 Form Hrs/wk
1	Multiphase Materials		Phenomena and Methods in Materials Sc	ience	Advanced Functional Materials		Master Thesis
2	Structure and Properties of Composites	VL 2	Phase equilibria and transformations	VL 2	Advanced Functional Materials	VL 2	
3	Applied Computational Methods for Material	PBL 3	Experimental Methods for the	VL 2			
5	Science		Characterization of Materials				
6							
7							
8	Materials Physics and Atomistic Materials	•	Advanced Laboratory Materials Sciences		Project work on Modern Issues in the M Sciences	aterials	
9	Materials Physics	VL 2	Advanced Laboratory Materials Sciences	PR 6	dictions		
10	Atomistic Materials Modeling	VL 2					
11							
12							
13	Lecture: Multiscale Materials		Mechanical Properties				
14	Multiscale Materials	VL 6	Mechanical Behaviour of Brittle Materials	VL 2			
15			Dislocation Theory of Plasticity	VL 2			
16			, , , , , , , , , , , , , , , , , , ,				
17 18							
19							
20	BIO II: Endoprostheses and Materials (pa	•	BIO II: Endoprostheses and Materials (pa		Interfaces and interface-dominated Mate	,	
21	Biomaterials	VL 2	Artificial Joint Replacement	VL 2	Nature's Hierarchical Materials	SE 2	
22			Interfaces and interface-dominated Mater	iala (nart 1)	Particle Technology and Solid Matter Pr		
23			Interfaces and Interface-dominated Mater	VL 2	Technology	ocess	
24			Interraces	VL 2	Advanced Particle Technology II	VL 2	
25			Quantum Mechanics of Solids		Advanced Particle Technology II	UE 1	
26			Quantum Mechanics of Solids	VL 2	Experimental Course Particle Technology	PR 3	
27			Quantum Mechanics of Solids	UE 1			
28			California in Condo	JL '			
29							
30	Dusiness 9 Management (from act-l) Cl	D					
	usiness & Management (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.

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP