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

Sample course plan C Master Materials Science (MAMS) Specialisation Engineering Materials

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/w
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	s Modelina	Advanced Laboratory Materials Sciences		Project work on Modern Issues in the	Materials		
8	Materials Physics	VL 2	Advanced Laboratory Materials Sciences	PR 6	Sciences			
9	Atomistic Materials Modeling	VL 2	That allows East-latery materials estences	0				
10	· · · · · · · · · · · · · · · · · · ·							
11 12								
13								
14	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	Design with Polymers and Composites		Manufacturing with Polymers and Composites -		Examination of Materials, Structural Condition and			
20 21	Design with Polymers and Composites	VL 2	From Molecule to Part		Damages			
22	Joining of Polymer-Metal Lightweight	VL 2	Manufacturing with Polymers and Composites	VL 2	Examination of Materials, Structural Condition and Damages	VL 4		
23	Structures		From Molecule to Composites Part	PBL 2	Examination of Materials, Structural	UE 1		
24	Joining of Polymer-Metal Lightweight Structures	PR 1	Trom wolecule to Composites Fait	FDL 2	Condition and Damages	OL 1		
25								
26	Ceramics and Polymers							
27	Ceramics Technology	VL 2						
28	Structure and Properties of Polymers	VL 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.