Course of Study Materials Science (Study Cohort w18)

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

эресіа	isation Modeling				Core qualification Elective Compulsory	Specialisation E Compulsory	lective	Focus Elective Compulsory	Interdisciplinary complement
LP	Semester 1	Form Hrs/w	kSemester 2	Form Hr	s/wkSemester 3	Form Hrs/w	kSemeste	er 4	Form Hrs/wk
1 2 3 4 5 6 7 8 9 10 11 12	Multiphase Materials Applied Computational Methods for Material Science Polymer Composites Materials Physics and Atomistic Materials Materials Physics Atomistic Materials Modeling Exercises in Materials Physics and Modeling	PBL 3 VL 2 erials 2 VL 2 VL 2 UL 2 UL 2 UL 2 UL 2 UE 2	Phenomena and Methods in Material Phase equilibria and transformations Experimental Methods for the Characterization of Materials Advanced Laboratory Materials Sciences Advanced Laboratory Materials Sciences	Is Science VL 2 VL 2 nces PR 6	Advanced Functional Materials Advanced Functional Materials Advanced Functional Materials Study work on Modern Issues in the Sciences	SE 2	Master Thesis		
13 14 15 16 17 18	Lecture: Multiscale Materials Multiscale Materials	VL 6	Mechanical Properties Mechanical Behaviour of Brittle Materials Dislocation Theory of Plasticity	VL 2 VL 2					
19 20 21 22 23 24 25 26 27 28 29	Material Modeling Material Modeling Material Modeling	VL 2 UE 2	Modeling Across The Scales Modeling Across The Scales Modeling Across The Scales - Excercise	VL 2 UE 2	Nonlinear Structural AnalysisNonlinear Structural AnalysisNonlinear Structural AnalysisNonlinear Structural AnalysisContinuum MechanicsContinuum MechanicsContinuum Mechanics Exercise	VL 3 UE 1 VL 2 UE 2			
30	Business & Management (from catalogue) Nontechnical Elective Complementary Co) - 6LP urses for Mas	ster (from catalogue) - 6LP				-		

Specialisation Compulsory Focus Compulsory

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.