Course of Study Materials Science (Study Cohort w17)

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

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form Hrs/w	kSemester 2	Form Hrs/w	kSemester 3	Form Hrs/w	kSemester 4 Form Hrs/wk
1 2 3 4 5	Multiphase Materials Applied Computational Methods for Material Science Polymer Composites	PBL 3	Phenomena and Methods in Materials Sc Phase equilibria and transformations Experimental Methods for the Characterization of Materials	ience VL 2 VL 2	Advanced Functional Materials Advanced Functional Materials	VL 2	Master Thesis
7 8 9 10 11	Materials Physics and Atomistic Materials Materials Physics Atomistic Materials Modeling	Wodeling VL 2 VL 2	Advanced Laboratory Materials Sciences Advanced Laboratory Materials Sciences	PR 6	Study work on Modern Issues in the N Sciences	laterials	
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	Polymers Structure and Properties of Polymers Processing and design with polymers	VL 2 VL 2	Fibre-polymer-composites Design with fibre-polymer-composites Structure and properties of fibre-polymer-composites	VL 2 VL 2	Examination of Materials, Structural C Damages Examination of Materials, Structural Condition and Damages Examination of Materials, Structural Condition and Damages	VL 4	
25 26 27 28 29 30					Metallic and Hybrid Light-weight Mate Joining of Polymer-Metal Lightweight Structures Joining of Polymer-Metal Lightweight Structures Metallic Light-weight Materials	rials VL 2 PR 1 VL 2	
	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.