## **Course of Study Materials Science (Study Cohort w18)** Core qualification Compulsory

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

Specialisatio					Core qualificatio Compulsory	on Elective Specialisa Compulso	tion Electiv ry	Focus Elective Compulsory	Interdisciplinary complement
LP Seme	nester 1	Form Hrs/v	vkSemester 2	Form Hrs/w	kSemester 3	Form I	lrs/wkSei	mester 4	Form Hrs/w
2 Appli 3 Mate 4 Polyr 5 Polyr 6 Mate 9 Mate 10 Atom 12 Exerc	Itiphase Materials lied Computational Methods for erial Science mer Composites terials Physics and Atomistic Mate deling erials Physics mistic Materials Modeling rcises in Materials Physics and	PBL         3           VL         2           rials	<ul> <li>Phenomena and Methods in Material</li> <li>Phase equilibria and transformations</li> <li>Experimental Methods for the</li> <li>Characterization of Materials</li> <li>Advanced Laboratory Materials Sciences</li> </ul>	VL 2 VL 2	Advanced Functional Materia Advanced Functional Materials Study work on Modern Issue Sciences	SE	2	aster Thesis	
13 14 15 16 17 18 19	leling ture: Multiscale Materials tiscale Materials	VL 6	Mechanical Properties Mechanical Behaviour of Brittle Materials Dislocation Theory of Plasticity	VL 2	Interfaces and interface-dor	minated Materia	ıls		
21 Biom 22 23 24 25 26 27	naterials	VL 2	(part 1) Interfaces Quantum Mechanics of Solids Quantum Mechanics of Solids Quantum Mechanics of Solids	VL 2 VL 2 UE 1	(part 2) Nature's Hierarchical Materials Particle Technology and Sol Technology Advanced Particle Technology I Advanced Particle Technology I Experimental Course Particle Technology	id Matter Proce	<b>ss</b> 2 1		
	ness & Management (from catalogue) rechnical Elective Complementary Cou		BIO II: Artificial Joint Replacement Artificial Joint Replacement ster (from catalogue) - 6LP	VL 2					

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

ık

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