

Semester I	Semester II	Semester III	Semester IV
Fundamental Materials Physics (5 CP)	Numerical Methods in Materials Science (6 CP)	Fundamental Option Module 3 (6 CP)	Master Thesis and Seminar (30 CP)
Thermodynamics and Statistical Mechanics (4 CP)	Fundamental Option Module 1 (6 CP)	Advanced Option Module 2 (6 CP)	
Elements of Microstructure (6 CP)	Fundamental Option Module 2 (6 CP)	Advanced Option Module 3 (6 CP)	
Programming Concepts in Materials Science (6 CP)	Advanced Option Module 1 (6 CP)	General Option Module (6 CP)	
Materials Modelling Lab (6 CP)	Docum. and Commun. Science 2 (3 CP)	Research Project (6 CP)	
Docum. and Commun. Science 1 (3 CP)	RUB Soft Skills (e.g. German) (3 CP)		

Compulsory Module	Fundamental Option Module	Advanced Option Module	Research Project and Master Thesis	Non-Technical Elective Module
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