Module overview B.Sc. Materials Science - 12 Semesters

Degree Programme Guidelines as per 1.10.2015, Version: 1.10.2017 (SB2017II)

The degree programme consists 180 Credit Points (CP) in total:

Mandatory Subject Area:	**124 CP**	**Elective Subject Area:**	**20 CP**
Mandatory Laboratories:	**21 CP**	**Bachelor's Thesis/Colloquium:**	**15 CP**

Language of Tuition: GERMAN
Certificates required

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This leads to the following possible part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
MaSc I: Crystallography and Crystal Chemistry (5 CP)	MaSc II: Thermodynamics of Solid State Bodies (4 CP)	General Chemistry (5 CP)	Physical Chemistry I (6 CP)	MaSc III: Real Crystals and their Properties (5 CP)	Introduction to Electrical Engineering (6 CP)
Introduction to MaSc (1 CP)	Mathematics for Civil Engineers II (8 CP)	Physics for Material Scientists I (5 CP)	Physics for Material Scientists II (5 CP)	Mathematics for Civil Engineers III (8 CP)	Non-Technical-Scientific Elective Subjects (6 CP)
Basic Lab I (3 CP)	Basic Lab II (3 CP)	Physics Laboratory Course for Material Science (6 CP)		Basic Lab III (3 CP)	Advanced Lab I (3 CP)
Mathematics for Civil Engineers I (8 CP)		Technical Mechanics for Material Scientists (6 CP)			
17 CP	15 CP	19 CP	14 CP	16 CP	15 CP

7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Advanced Lab II (3 CP)	MaSc IV: Mechanical Properties (6 CP)	MaSc V: Diffusion and Transport in Real Crystals (5 CP)	MaSc VII: Functional Properites of Condensed Matter (6 CP)	Bachelor's Thesis (12 CP)	
Physical Chemistry II (6 CP)	Materials Engineering (5 CP)	MaSc VI: Crystal and Electronic Structure of Solid State Bodies (5 CP)	Structural Materials (6 CP)	Study Project (2 CP)	Colloquium (3 CP
	Numerical Methods of Materials Science (3 CP)	Characterisation Methods in Materials Science (6 CP)	Research Seminar (2 CP)	Technical-Scientific Elective Subjects (14 CP)	
9 CP	14 CP	16 CP	14 CP	16 CP	15 CP