Curriculum MSc "Advanced Materials": Focus Nanomaterials + Focus Biomaterials
Examination Regulations 2015

Semester	Focus	Fundamentals Natural Sciences / Engineering Science				Soft Skills	CP	
1	Nano + Bio	Mathematics (5 CP)				German Language Training German Language Training I (3 CP)	30	30
		Physics Physics I (5 CP)	Chemistry Physical Chemistry (4 CP)	Materials and Engineering Science Materials Sci. I (5 CP) Electrical Eng. (4 CP)	Biology Biology I (4 CP)			
		Advanced Courses Natural Science / Engineering Science / Medical Engineering						
2	Nano	Lab Physics (5 CP) Physics II (5 CP)	Materials Chemistry: (4 CP)	Lab Mat. Sci. I (5 CP) Materials Sci. II (5 CP) (5 CP) Comp. Semiconductors		German Language Training II (3 CP)	Nano 27	60
	Bio	Lab Physics (5 CP)	Materials Chemistry: (4 CP)	Biomaterials in Medicine I (5 CP)	Advanced Biology (10 CP) Biology II (5 CP) Lab Biomolecules/ Biophysics (5 CP)	German Language Training II (3 CP)	Bio 27	
	Nano + Bio	Scientific Method Training (3 CP)					3	
		Specialization						
3	Nano	Physics	Chemistry of Nanomaterials	Materials and Engineering Science		German Language Training III (2 CP)	Nano 30	90
		2 Packages (at 14 CP each) out of 3 subject areas Package: Advanced lab (8 CP), advanced lectures (1 x 6 CP or 2 x 3 CP)						
	Bio	Softmatter/Biophysics	Chemistry of Biomaterials	Biomaterials in Medicine		German Language Training III (2 CP)	Bio 30	
		2 Packages (at 14 CP each) out of 3 subject areas Package: Advanced lab (8 CP), advanced lectures (1 x 6 CP or 2 x 3 CP)						
4	Nano + Bio	Master´s Thesis (30 CP)					30	120