

Curriculum Materials Science and Engineering (M.Sc.)

	Understanding Materials	Analysis of Materials	Technology of Materials
Pflichtmodule	Solid State Physics and Semiconductors Dielectrics and Ceramics Macromolecular Chemistry and Polymer Application		
Wahlpflichtmodule I (Modulinhalte)	Chemical Nanotechnology Physical Chemistry Advanced Inorganic Chemistry Membrane Separations Biomedical Materials Quantum Statistical Physics	Surface Science Electron Microscopy X-Ray Analytics of Materials Modern Crystallography Optical and Electrical Analytics of Materials Analytics of Plastics & Polymers Chemical Sensors Life-Cycle Assessment	Innovative Materials/Light Metal Design/ Carbon Fibers Chemical Technology of Materials Technology of Coatings Optical Technology Light Sources Semiconductor Technology Solar Cells Battery/Energy Storage FEM & Micro Optical Mechanical Systems Project Management Business Simulation
Wahlpflichtmodule II	German as a Foreign Language or Intercultural Communication and Competence Bridging Courses from Physics/Chemistry B.Sc. Program		
Projektarbeit	Literature Research, Practical Experimental Work and Own Projects in Various Laboratories		
Abschlussphase	Master's Thesis and Colloquium		