Curriculum Master Course Physical Engineering

	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Module 1	Solid State Physics 5 Credits	Physical Coating Technologies 5 Credits	Project Management 5 Credits	
Module 2	Quantum Mechanics/ Statistical Physics 5 Credits	Physical Analytics 5 Credits	Optical Design/Micro Optics 10 Credits	
Module 3	Modeling/Simulation 5 Credits	Research and Development Project I	Research and Development Project II	Master Project (including Colloquium)
Module 4	Elective Modules l	10 Credits	10 Credits	30 Credits
Module 5		Elective Modules II (2 Modules out of 4) 10 Credits	Elective Modules III (2 Modules out of 4) 10 Credits	
Module 6				
Credits	30	30	30	30

Basic Modules	Elective Modules	Practical Modules
---------------	------------------	-------------------

Elective Modules

Marketing*

Elective Modules I (3 Modules out of 8)	Elective Modules II (2 Modules out of 4)	Elective Modules III (2 Modules out of 4)	
Radiation Physics/Optics	Components of Laser Technology	Micro- and Nanotechnologies	
Laser Physics	Physics of Laser-Matter Interaction	Physical Technical Instrument Development and Device Construction	
Basics of Additive Processes	Simulation Methods in Additive Manufacturing		
Biophotonics I - Interaction of Light with	Molecular and Cellular Biophysics	Current Developments/Hazard Analysis	
Organic Matter		Biophotonics II - Ultra-short Metrology and	
Digitaltechnik [*]		Applications in Biophotonics	
Digitale Bildverarbeitung [*]			