COURSE CONTENTS

PHYSICAL ENGINEERING (TECHNIK-ENTWICKLUNG)

SEM.	MODULE OVERVIEW						ECTS
1	Analysis 1 (Differential & integral calculus) 5	Physics 1 (Mechanics & Thermodynamics) 5	Computer Science & practical course 5	Electrical engineering 5	Chemistry 5	Linear Algebra 5	**30**
2	Analysis 2 (Differentialequations & vector analysis 5	Physics 2 (Electrodynamics) 5	Software Development & practical course 5	Electronics 1 & practical course 5	Materials science 5	Construction 1 (CAD & Technical mechanics) 5	**30**
3	Numerical Mathematics 5	Physics 3 (Optics and oscillations) 5	Physics 4 (Quantum) & practical course 5	Electronics 2 5	German language 5	Construction 2 (machine construction) 5	**30**
4	Scientific working 5	Business management 5	Modelling and simulation 5	Physical Computing & Practical course 5	Photonics (Machine Vision) & Practical course 5	Robotics 5	**30**
5	Development methods 5	Physical metrology 5	Digital Engineering 5	Cyber-Physical Systems 5	Photonics (Technical Optics) 5	Control engineering 5	**30**
6	Internship					30	**30**
7	Bachelor Thesis 15			Elective module technology 5	Elective module non-technology 5	Project 5	**30**

■ Lecture subjects   ■ Projects and internship   ■ Thesis