Course of Study Theoretical Mechanical Engineering (Study Cohort w21)

Sample course plan A Master Theoretical Mechanical Engineering (TMBMS) Interdisciplinary complement Specialisation Bio- and Medical Technology Finite Elements Methods Numerical Treatment of Ordinary Differential Equations Research Project Theoretical Mechanical Engineering Master Thesis Numerical Treatment of Ordinary Differential Equations 2 Finite Element Methods Numerical Treatment of Ordinary Differential Equations GÜ 5 6 Control Systems Theory and Design Applied Dynamics: Numerical and experimental methods 8 Control Systems Theory and Design Lab Applied Dynamics 10 11 12 Modelling and Optimization in Dynamics Computational Fluid Dynamics II Intelligent Systems in Medicine Intelligent Systems in Medicine 14 Optimization of dynamical systems Computational Fluid Dynamics II ΗÜ Intelligent Systems in Medicine GÜ 1 15 Intelligent Systems in Medicine 16 17 18 Linear and Nonlinear System Identifikation Microsystem Engineering Linear and Nonlinear System Identification PR Control Lab VIII Microsystem Engineering PBL 2 21 PR Control Lab IX 22 **Applied Statistics** Design optimization and probabilistic approaches in structural analysis Applied Statistics VL Design Optimization and Probabilistic Approaches in Structural Analysis VL Applied Statistics Design Optimization and Probabilistic Approaches in Structural Analysis HÜ Applied Statistics PBL 25 26 28 29 30 Business & Management (from catalogue) - 6LP Non-technical Courses for Master (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.