Course of Study Theoretical Mechanical Engineering (Study Cohort w19)

Sample course plan A Master Theoretical Mechanical Engineering (TMBMS) Interdisciplinary complement Specialisation Product Development and Production or Hrs/wk Semester 3 Form Hrs/wk Form Hrs/wk Semester 4 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 Factory Planning & Production Logistics 14 Optimization of dynamical systems Computational Fluid Dynamics II Production Logistics VL 2 15 16 17 18 Linear and Nonlinear System Identifikation Control Lab VII Linear and Nonlinear System Identification Control Lab VIII PR Fluidics HÜ 1 21 PR Control Lab IX PBI 1 Fluidics 22 Methods of Integrated Product Development Design optimization and probabilistic approaches in structural analysis Integrated Product Development II VL Design Optimization and Probabilistic Approaches in Structural Analysis VL Integrated Product Development II Design Optimization and Probabilistic Approaches in Structural Analysis 24 25 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.