

Exclosure to Subject Specific Regulations
 from 18.07.2018
 for Master-Programme Mechatronics
 at TUHH
 Programme Director: Prof. Thorsten
 Schüppstuhl
 Total: 120 CP
 Number of Specilisations to choose: 1

TUHH

Course Scheme Master Mechatronics (IMPMEC)

Consolidated Version
 for Study Cohort: WiSe21/22
 en_head_sda
 and Approval of Chair from:
 04.05.2022
 Replaces Version from: 19.05.2021
 Out of Force on: 30.09.2024

The elective compulsory optional defined module "Selected Topics of Mechatronics" can only be selected once with either 6 CPs (Alternative B) or 12 CPs (Alternative A) which cannot be combined. The elective compulsory modules "Control Lab A", "Control Lab B" and "Control Lab C" must not be combined to more than 6 CPs.

Information regarding the lectures are available in the TUHH modul manuals as well as in the course catalogue.

| Re-com. Term | Module | | | | | | Examination | | | Course Work | | |
|---|---|----------|---------------------------|-------------|----------|-----------|-------------|--|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | ModuleResponsability | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| Core Qualification Compulsory Courses: 54 LP Optional Courses: 0 LP | | | | | | | | | | | | |
| 1 | Entwurf und Implementierung von Software-Systemen / Design and Implementation of Software Systems | EN | NN | Not defined | C | CM | 6 | Y | KL | | | |
| 1 | Finite-Elemente-Methoden / Finite Elements Methods | EN | Prof. von Estorff | M-16 | C | CM | 6 | Y | KL | N | MT | 20 |
| 1 | Robotik / Robotics | EN | Dr. Gomse | M-23 | C | CM | 6 | Y | KL | | | |
| 1 | Technische Schwingungslehre / Vibration Theory | DE / EN | Prof. Hoffmann | M-14 | C | CM | 6 | Y | KL | | | |
| 1 | Theorie und Entwurf regelungstechnischer Systeme / Control Systems Theory and Design | EN | Prof. Werner | E-14 | C | CM | 6 | Y | KL | | | |
| 3 | Studienarbeit Mechatronics / Research Project Mechatronics | | Dozenten des Studiengangs | M-24 | C | CM | 12 | Y | STA | | | |
| 1-3 | Nichttechnische Angebote im Master / Non-technical Courses for Master | DE / EN | Richter | 0-TUHH | C | OM | 6 | Selection out of seperatly published Catalogue | | | | |
| 1-3 | Betrieb & Management / Business & Management | DE / EN | Prof. Meyer | W-1 | C | OM | 6 | Selection out of seperatly published Catalogue | | | | |
| Specialisation Intelligent Systems and Robotics Compulsory Courses: 0 LP Optional Courses: 36 LP | | | | | | | | | | | | |
| 2 | Angewandte Humanoide Robotik / Applied Humanoid Robotics | DE / EN | Göttsch | E-14 | EC | CM | 6 | N | SA | | | |
| 2 | Approximation und Stabilität / Approximation and Stability | DE / EN | Prof. Lindner | E-10 | EC | CM | 6 | Y | MP | Y | RE | 0 |
| 2 | Ausgewählte Themen der Schwingungslehre / Advanced Topics in Vibration | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | |
| 2 | Compiler für Eingebettete Systeme / Compilers for Embedded Systems | DE / EN | Prof. Falk | E-13 | EC | CM | 6 | Y | MP | | | |

| Module | | | | | | | Examination | | | Course Work | | |
|--------------|---|----------|----------------------|-----------|----------|-----------|-------------|---|---------------------|-------------|------------------|--------------|
| Re-com. Term | Module Name (German / English) | Language | ModuleResponsability | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| 2 | Eingebettete Systeme / Embedded Systems | EN | Prof. Falk | E-13 | EC | CM | 6 | Y | KL | Y | FFST | 10 |
| 2 | Humanoide Robotik / Humanoid Robotics | DE | Götttsch | E-14 | EC | CM | 2 | Y | RE | | | |
| 2 | Labor Cyber-Physical Systems / Lab Cyber-Physical Systems | DE / EN | Prof. Falk | E-13 | EC | CM | 6 | Y | SA | | | |
| 2 | Lineare und Nichtlineare Systemidentifikation / Linear and Nonlinear System Identifikation | EN | Prof. Werner | E-14 | EC | CM | 3 | Y | MP | | | |
| 2 | Maschinelles Lernen und Data Mining / Machine Learning and Data Mining | EN | NN | E-16 | EC | CM | 6 | Y | KL | | | |
| 2 | Mechatronische Systeme / Mechatronic Systems | DE / EN | NN | M-24 | EC | CM | 6 | Y | KL | Y | FFST | 0 |
| 2 | Nichtlineare Dynamik / Nonlinear Dynamics | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | |
| 2 | Numerik gewöhnlicher Differentialgleichungen / Numerical Treatment of Ordinary Differential Equations | DE / EN | Prof. Ruprecht | E-10 | EC | CM | 6 | Y | KL | | | |
| 2 | Optimale und robuste Regelung / Optimal and Robust Control | EN | Prof. Werner | E-14 | EC | CM | 6 | Y | MP | | | |
| 2 | Regelungstechnisches Praktikum A / Control Lab A | EN | Prof. Werner | E-14 | EC | CM | 4 | N | SA | | | |
| 2 | Regelungstechnisches Praktikum C / Control Lab C | EN | Prof. Werner | E-14 | EC | CM | 3 | N | SA | | | |
| 2 | Robotik und Navigation in der Medizin / Robotics and Navigation in Medicine | EN | Prof. Schlaefer | E-1 | EC | CM | 6 | Y | KL | Y | SA | 10 |
| | | | | | | | | | | Y | RE | 10 |
| 2 | Software für Eingebettete Systeme / Software for Embedded Systems | DE / EN | Prof. Renner | E-24 | EC | CM | 6 | Y | KL | N | TE | 10 |
| 2 | Systems Engineering / Systems Engineering | DE | Prof. God | M-25 | EC | CM | 6 | Y | KL | | | |
| 2 | Technischer Ergänzungskurs für IMPMEC (laut FSPO) / Technical Complementary Course for IMPMEC (according to Subject Specific Regulations) | | NN | M-24 | EC | OM | 6 | according to Subject Specific Regulations | | | | |
| 2-3 | Ausgewählte Themen der Mechatronik (Alternative A: 12 LP) / Selected Topics of Mechatronics (Alternative A: 12 LP) | DE / EN | NN | M-24 | EC | OM | 12 | Selection out of Catalogue below | | | | |
| 2-3 | Ausgewählte Themen der Mechatronik (Alternative B: 6 LP) / Selected Topics of Mechatronics (Alternative B: 6 LP) | DE / EN | NN | M-24 | EC | OM | 6 | Selection out of Catalogue below | | | | |
| 3 | Applied Statistics / Applied Statistics (lt. letzter PO Angewandte Statistik für Ingenieure) | DE / EN | Prof. Morlock | M-3 | EC | CM | 6 | Y | KL | | | |
| 3 | Ausgewählte Themen der Mehrkörperdynamik und Robotik / Selected Topics in Multibody Dynamics and Robotics | DE | Prof. Seifried | M-13 | EC | CM | 6 | Y | RE | | | |
| 3 | Ausgewählte Themen der Regelungstechnik / Advanced Topics in Control | EN | Prof. Werner | E-14 | EC | CM | 6 | Y | MP | | | |
| 3 | Baurobotik / Construction Robotics | DE / EN | Prof. Smarsly | B-1 | EC | CM | 6 | Y | SA | | | |
| 3 | Bildverarbeitung / Image Processing | DE / EN | Prof. Knopp | E-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Digitale Signalverarbeitung und Digitale Filter / Digital Signal Processing and Digital Filters | EN | Prof. Bauch | E-8 | EC | CM | 6 | Y | KL | | | |

| Re-com. Term | Module | | | | | | Examination | | | Course Work | | |
|--------------|--------------------------------|----------|----------------------|-----------|----------|-----------|-------------|-------|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | ModuleResponsability | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |

| | | | | | | | | | | | | |
|---|--|---------|-----------------|------|----|----|---|---|-----|---|------|----|
| 3 | Entwicklung haptischer Systeme / Engineering Haptic Systems | EN | Prof. Kern | M-4 | EC | CM | 6 | Y | FFA | Y | FFST | 20 |
| 3 | Fortgeschrittenes maschinelles Lernen / Advanced Machine Learning (lt. letzter PO Mathematik neuronaler Netzwerke) | DE / EN | Dr. Zemke | E-10 | EC | CM | 6 | Y | MP | | | |
| 3 | Intelligente Autonome Agenten und kognitive Robotik / Intelligent Autonomous Agents and Cognitive Robotics | EN | Marrone | E-16 | EC | CM | 6 | Y | KL | | | |
| 3 | Intelligente Systeme in der Medizin / Intelligent Systems in Medicine | EN | Prof. Schlaefer | E-1 | EC | CM | 6 | Y | KL | Y | SA | 10 |
| | | | | | | | | | | Y | RE | 10 |
| 3 | Mathematische Bildverarbeitung / Mathematical Image Processing | DE / EN | Prof. Lindner | E-10 | EC | CM | 6 | Y | MP | | | |
| 3 | Modellierung und Optimierung in der Dynamik / Modelling and Optimization in Dynamics | DE | Prof. Seifried | M-13 | EC | CM | 6 | Y | MP | | | |
| 3 | Optik für Ingenieure / Optics for Engineers | EN | Prof. Kern | M-4 | EC | CM | 6 | Y | MP | Y | FFST | 0 |
| 3 | Prozessautomatisierungstechnik / Industrial Process Automation | EN | Prof. Schlaefer | E-1 | EC | CM | 6 | Y | KL | N | ÜA | 10 |
| 3 | Regelungstechnisches Praktikum B / Control Lab B | EN | Prof. Werner | E-14 | EC | CM | 2 | N | SA | | | |
| 3 | Seminar Ausgewählte Themen der Regelungstechnik / Seminar Advanced Topics in Control | EN | Prof. Werner | E-14 | EC | CM | 2 | Y | RE | | | |

Specialisation System Design Compulsory Courses: 0 LP Optional Courses: 36 LP

| | | | | | | | | | | | | |
|---|---|---------|-------------------|------|----|----|---|---|----|---|------|----|
| 2 | Ausgewählte Themen der Schwingungslehre / Advanced Topics in Vibration | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | |
| 2 | Boundary-Elemente-Methoden / Boundary Element Methods | EN | Prof. von Estorff | M-16 | EC | CM | 6 | Y | KL | N | MT | 20 |
| 2 | Compiler für Eingebettete Systeme / Compilers for Embedded Systems | DE / EN | Prof. Falk | E-13 | EC | CM | 6 | Y | MP | | | |
| 2 | Einführung in Wellenleiter, Antennen und Elektromagnetische Verträglichkeit / Introduction to Waveguides, Antennas, and Electromagnetic Compatibility | DE / EN | Prof. Schuster | E-18 | EC | CM | 6 | Y | MP | | | |
| 2 | Eingebettete Systeme / Embedded Systems | EN | Prof. Falk | E-13 | EC | CM | 6 | Y | KL | Y | FFST | 10 |
| 2 | Entwurf von Dependable Systems / Design of Dependable Systems | DE / EN | Prof. Fey | E-13 | EC | CM | 6 | Y | MP | Y | FFST | 0 |
| 2 | Flugregelung: Entwurf und Anwendung / Flight Control Law Design and Application | EN | Prof. Thielecke | M-7 | EC | CM | 6 | Y | KL | | | |
| 2 | Humanoide Robotik / Humanoid Robotics | DE | Götttsch | E-14 | EC | CM | 2 | Y | RE | | | |

| | | Module | | | | | Examination | | | | Course Work | | |
|--------------|---|----------|----------------------|-----------|----------|-----------|-------------|---|---------------------|------------|------------------|--------------|--|
| Re-com. Term | Module Name (German / English) | Language | ModuleResponsability | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) | |
| 2 | Labor Cyber-Physical Systems / Lab Cyber-Physical Systems | DE / EN | Prof. Falk | E-13 | EC | CM | 6 | Y | SA | | | | |
| 2 | Lineare und Nichtlineare Systemidentifikation / Linear and Nonlinear System Identifikation | EN | Prof. Werner | E-14 | EC | CM | 3 | Y | MP | | | | |
| 2 | Maschinelles Lernen und Data Mining / Machine Learning and Data Mining | EN | NN | E-16 | EC | CM | 6 | Y | KL | | | | |
| 2 | Mechatronische Systeme / Mechatronic Systems | DE / EN | NN | M-24 | EC | CM | 6 | Y | KL | Y | FFST | 0 | |
| 2 | Nichtlineare Dynamik / Nonlinear Dynamics | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | | |
| 2 | Optimale und robuste Regelung / Optimal and Robust Control | EN | Prof. Werner | E-14 | EC | CM | 6 | Y | MP | | | | |
| 2 | Praktische Entwicklungsmethodik in der Mechatronik / Applied Design Methodology in Mechatronics | EN | Prof. Kern | M-4 | EC | CM | 6 | Y | FFA | | | | |
| 2 | Regelungstechnisches Praktikum A / Control Lab A | EN | Prof. Werner | E-14 | EC | CM | 4 | N | SA | | | | |
| 2 | Regelungstechnisches Praktikum C / Control Lab C | EN | Prof. Werner | E-14 | EC | CM | 3 | N | SA | | | | |
| 2 | Software für Eingebettete Systeme / Software for Embedded Systems | DE / EN | Prof. Renner | E-24 | EC | CM | 6 | Y | KL | N | TE | 10 | |
| 2 | Systems Engineering / Systems Engineering | DE | Prof. God | M-25 | EC | CM | 6 | Y | KL | | | | |
| 2 | Technische Akustik I (Akustische Wellen, Lärmschutz, Psychoakustik) / Technical Acoustics I (Acoustic Waves, Noise Protection, Psycho Acoustics) | EN | Prof. von Estorff | M-16 | EC | CM | 6 | Y | KL | | | | |
| 2 | Technischer Ergänzungskurs für IMPMEC (laut FSPO) / Technical Complementary Course for IMPMEC (according to Subject Specific Regulations) | | NN | M-24 | EC | OM | 6 | according to Subject Specific Regulations | | | | | |
| 2-3 | Ausgewählte Themen der Mechatronik (Alternative A: 12 LP) / Selected Topics of Mechatronics (Alternative A: 12 LP) | DE / EN | NN | M-24 | EC | OM | 12 | Selection out of Catalogue below | | | | | |
| 2-3 | Ausgewählte Themen der Mechatronik (Alternative B: 6 LP) / Selected Topics of Mechatronics (Alternative B: 6 LP) | DE / EN | NN | M-24 | EC | OM | 6 | Selection out of Catalogue below | | | | | |
| 3 | Applied Statistics / Applied Statistics (lt. letzter PO Angewandte Statistik für Ingenieure) | DE / EN | Prof. Morlock | M-3 | EC | CM | 6 | Y | KL | | | | |
| 3 | Ausgewählte Themen der Mehrkörperdynamik und Robotik / Selected Topics in Multibody Dynamics and Robotics | DE | Prof. Seifried | M-13 | EC | CM | 6 | Y | RE | | | | |
| 3 | Ausgewählte Themen der Regelungstechnik / Advanced Topics in Control | EN | Prof. Werner | E-14 | EC | CM | 6 | Y | MP | | | | |
| 3 | Bildverarbeitung / Image Processing | DE / EN | Prof. Knopp | E-5 | EC | CM | 6 | Y | KL | | | | |
| 3 | Entwicklung haptischer Systeme / Engineering Haptic Systems | EN | Prof. Kern | M-4 | EC | CM | 6 | Y | FFA | Y | FFST | 20 | |
| 3 | Entwurf Integrierter Schaltungen / Integrated Circuit Design | EN | Prof. Kuhl | E-9 | EC | CM | 6 | Y | KL | | | | |
| 3 | Lineare und Nichtlineare Wellen / Linear and Nonlinear Waves | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | | |

| | | Module | | | | | Examination | | | Course Work | | |
|--|--|----------|----------------------|-----------|----------|-----------|-------------|-------|---------------------|-------------|------------------|--------------|
| Re-com. Term | Module Name (German / English) | Language | ModuleResponsability | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| 3 | Mathematische Bildverarbeitung / Mathematical Image Processing | DE / EN | Prof. Lindner | E-10 | EC | CM | 6 | Y | MP | | | |
| 3 | Methoden der integrierten Produktentwicklung / Methods of Integrated Product Development | DE | Prof. Krause | M-17 | EC | CM | 6 | Y | MP | | | |
| 3 | Mikrosystemtechnik / Microsystem Engineering | EN | Dr. Kusserow | E-7 | EC | CM | 6 | Y | KL | N | RE | 10 |
| 3 | Modellierung und Optimierung in der Dynamik / Modelling and Optimization in Dynamics | DE | Prof. Seifried | M-13 | EC | CM | 6 | Y | MP | | | |
| 3 | Nichtlineare Strukturanalyse / Nonlinear Structural Analysis | DE / EN | Prof. Düster | M-10 | EC | CM | 6 | Y | KL | | | |
| 3 | Optik für Ingenieure / Optics for Engineers | EN | Prof. Kern | M-4 | EC | CM | 6 | Y | MP | Y | FFST | 0 |
| 3 | Regelungstechnisches Praktikum B / Control Lab B | EN | Prof. Werner | E-14 | EC | CM | 2 | N | SA | | | |
| 3 | Seminar Ausgewählte Themen der Regelungstechnik / Seminar Advanced Topics in Control | EN | Prof. Werner | E-14 | EC | CM | 2 | Y | RE | | | |
| 3 | Technische Akustik II (Raumakustik, Berechnungsverfahren) / Technical Acoustics II (Room Acoustics, Computational Methods) | EN | Prof. Kriegesmann | M-16 | EC | CM | 6 | Y | MP | | | |
| Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP | | | | | | | | | | | | |
| 4 | Masterarbeit / Master Thesis | | Professoren der TUHH | 0-TUHH | C | CM | 30 | Y | AB | | | |

Selected Topics of Mechatronics (Alternative A: 12 LP)

| Course | | | | | Examination | | | |
|---|-------------------|--------------|---------|-----------|-------------|-------|---------------------|------------------------|
| Course Name (German / English) | Course Form LV(5) | Language (6) | SWS (7) | Sem. LV | CP (4) | Grade | Examination Form(3) | Additional information |
| Angewandte Automatisierung / Applied Automation | PBL | DE | 3 | WiSe | 3 | Y | MP | |
| Arbeitswissenschaft / Ergonomics | VL | DE | 2 | WiSe | 3 | Y | MP | |
| Aufbaukurs SE-ZERT / Advanced Training Course SE-ZERT | PBL | DE | 2 | SoSe | 3 | Y | KL | |
| Entwicklungsmanagement Mechatronik / Development Management for Mechatronics | VL | DE | 2 | SoSe | 3 | Y | MP | |
| Ermüdung und Schadenstoleranz / Fatigue & Damage Tolerance | VL | EN | 2 | WiSe | 3 | Y | MP | |
| Generationsübergreifende Blechkonstruktion / GSD - Generational Sheet-Metal Development | VL | DE | 3 | WiSe | 3 | Y | MP | |
| Industrie 4.0 für Ingenieure / Industry 4.0 for engineers | VL | DE | 2 | SoSe | 3 | Y | KL | |
| Mikrocontrollerschaltungen - Realisierung in Hard- und Software / Microcontroller Circuits: Implementation in Hardware and Software | SE | DE | 2 | WiSe/SoSe | 2 | Y | SA | |

| Course | | | | | Examination | | | |
|--|----------------------|-----------------|---------|------------|-------------|-------|------------------------|---|
| Course Name (German / English) | Course Form LV(5) | Language (6) | SWS (7) | Sem. LV | CP (4) | Grade | Examination Form(3) | Additional information |
| Mikrosystemtechnologie / Microsystems Technology | VL | EN | 2 | WiSe | 4 | Y | MP | |
| Model-Based Systems Engineering (MBSE) mit SysML/UML / Model-Based Systems Engineering (MBSE) with SysML/UML | PBL | DE | 3 | SoSe | 3 | Y | SA | |
| Nachhaltige industrielle Produktion / Sustainable Industrial Production | VL | DE | 2 | SoSe | 3 | Y | KL | |
| Nachhaltige industrielle Produktion / Sustainable Industrial Production | VL | DE | 2 | SoSe | 4 | Y | KL | Replaces "Sustainable Industrial Production (VL)" from SoSe23 |
| Prozessmesstechnik / Process Measurement Engineering | VL | DE/EN | 2 | SoSe | 3 | Y | MP | |
| Prozessmesstechnik / Process Measurement Engineering | HÜ | DE/EN | 1 | SoSe | 1 | Y | MP | |
| Regelungstechnische Methoden für die Medizintechnik / Feedback Control in Medical Technology | VL | DE | 2 | SoSe | 3 | Y | MP | |
| Technische Dynamik / Applied Dynamics | VL | DE | 2 | SoSe | 3 | Y | KL | |

Selected Topics of Mechatronics (Alternative B: 6 LP)

| Course | | | | | Examination | | | |
|---|----------------------|-----------------|---------|------------|-------------|-------|------------------------|---|
| Course Name (German / English) | Course Form LV(5) | Language (6) | SWS (7) | Sem. LV | CP (4) | Grade | Examination Form(3) | Additional information |
| Angewandte Automatisierung / Applied Automation | PBL | DE | 3 | WiSe | 3 | Y | MP | |
| Arbeitswissenschaft / Ergonomics | VL | DE | 2 | WiSe | 3 | Y | MP | |
| Aufbaukurs SE-ZERT / Advanced Training Course SE-ZERT | PBL | DE | 2 | SoSe | 3 | Y | KL | |
| Entwicklungsmanagement Mechatronik / Development Management for Mechatronics | VL | DE | 2 | SoSe | 3 | Y | MP | |
| Ermüdung und Schadenstoleranz / Fatigue & Damage Tolerance | VL | EN | 2 | WiSe | 3 | Y | MP | |
| Generationsübergreifende Blechkonstruktion / GSD - Generational Sheet-Metal Development | VL | DE | 3 | WiSe | 3 | Y | MP | |
| Industrie 4.0 für Ingenieure / Industry 4.0 for engineers | VL | DE | 2 | SoSe | 3 | Y | KL | |
| Mikrocontrollerschaltungen - Realisierung in Hard- und Software / Microcontroller Circuits: Implementation in Hardware and Software | SE | DE | 2 | WiSe/SoSe | 2 | Y | SA | |
| Mikrosystemtechnologie / Microsystems Technology | VL | EN | 2 | WiSe | 4 | Y | MP | |
| Model-Based Systems Engineering (MBSE) mit SysML/UML / Model-Based Systems Engineering (MBSE) with SysML/UML | PBL | DE | 3 | SoSe | 3 | Y | SA | |
| Nachhaltige industrielle Produktion / Sustainable Industrial Production | VL | DE | 2 | SoSe | 3 | Y | KL | |
| Nachhaltige industrielle Produktion / Sustainable Industrial Production | VL | DE | 2 | SoSe | 4 | Y | KL | Replaces "Sustainable Industrial Production (VL)" from SoSe23 |
| Prozessmesstechnik / Process Measurement Engineering | VL | DE/EN | 2 | SoSe | 3 | Y | MP | |
| Prozessmesstechnik / Process Measurement Engineering | HÜ | DE/EN | 1 | SoSe | 1 | Y | MP | |

| Course | | | | | Examination | | | |
|---|----------------------|-----------------|---------|------------|-------------|-------|------------------------|------------------------|
| Course Name (German / English) | Course Form LV(5) | Language (6) | SWS (7) | Sem. LV | CP (4) | Grade | Examination Form(3) | Additional information |
| Regelungstechnische Methoden für die Medizintechnik / Feedback Control in Medical Technology | VL | DE | 2 | SoSe | 3 | Y | MP | |
| Technische Dynamik / Applied Dynamics | VL | DE | 2 | SoSe | 3 | Y | KL | |

Explanation:

¹C=Compulsory, EC=Elective Compulsory

²CM=Compulsory Defined Module, OM=Optional Defined Module

³KL=Written exam, MT=Midterm, SA=Written elaboration, FFA=Subject theoretical and practical work, FFST=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, STA=Study work, ÜA=Exercises, AB=Thesis, SA lt. FPrO=Written elaboration (accord. to Internship Regulations), TE=Attestation

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, GÜ=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, PS=Project Seminar, HÜ=Recitation Section (large), IV=Integrated Lecture

⁶DE=German, EN=English, DE/EN=German and English

⁷SWS=Contact hours