

Course Scheme Master International Management and Engineering (IWIMS)

Die Vertiefung I. Management ist verpflichtend zu wählen. Außerdem ist eine der angebotenen Ingenieurvertiefungen (II.) zu wählen.

Für Studierende mit Bachelorabschluss im Wirtschaftsingenieurwesen entfallen die Module „Rechnungswesen“ und „Volkswirtschaftslehre“ - die 12 LP sind in der gewählten Ingenieurvertiefung (II.) zu belegen.

Studierende mit Bachelorabschluss im Wirtschaftsingenieurwesen können auf Antrag das Pflichtmodul „Quantitative Methoden - Statistik und Operations Research“ durch ein Fachmodul der Vertiefung I. Management ersetzen.

| Re com. Term | Module | | | | | | Examination | | | Course Work | | |
|--|---|----------|-----------------------|-----------|----------|-----------|-------------|--|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | Module Responsibility | 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 | Institutionelle Rahmenbedingungen des internationalen Managements / Institutional Environment of International Management | DE | Prof. Wrona | W-10 | C | CM | 6 | Y | FFA | Y | MT | 33 |
| 1 | International Business / International Business | EN | Prof. Lütjhe | W-3 | C | CM | 6 | Y | FFA | Y | ÜA | 5 |
| 1 | Produktions- und Logistikmanagement / Production and Logistics Management | DE | Prof. Kersten | W-2 | C | CM | 6 | Y | KL | Y | ÜA | 2.5 |
| | | | | | | | | | | N | FFST | 15 |
| 1 | Quantitative Methoden - Statistik und Operations Research / Quantitative Methods - Statistics and Operations Research | EN | Prof. Fischer | W-4 | C | CM | 6 | Y | KL | Y | ÜA | 2.5 |
| | | | | | | | | | | Y | MT | 47.5 |
| 1 | Rechnungswesen / Accounting | DE / EN | Prof. Meyer | W-1 | C | CM | 6 | Y | KL | Y | MT | 33 |
| | | | | | | | | | | Y | ÜA | 5 |
| 2 | Organisation internationaler Unternehmen und IT / Organization international companies and IT | DE / EN | Prof. Blecker | W-2 | C | CM | 6 | Y | KL | Y | ÜA | 5 |
| | | | | | | | | | | N | FFST | 10 |
| 2 | Volkswirtschaftslehre und Außenwirtschaftslehre / Economics | EN | Prof. Fischer | W-4 | C | CM | 6 | Y | KL | Y | ÜA | 5 |
| 3 | Projektseminar IWI / Project Seminar IWI | DE / EN | Prof. Fischer | W-4 | C | CM | 6 | Y | SA | | | |
| 1-3 | Nichttechnische Ergänzungskurse im Master / Nontechnical Elective Complementary Courses for Master | DE / EN | Richter | 0-TUHH | C | OM | 6 | Selection out of seperatly published Catalogue | | | | |
| Specialisation I. Electives Management Compulsory Courses: 0 LP Optional Courses: 24 LP | | | | | | | | | | | | |
| 2 | Controlling / Management Control | DE | Prof. Meyer | W-1 | EC | CM | 6 | Y | KL | N | ÜA | 8.3 |
| 2 | EIP und Produktivitätsmanagement / EIP and Productivity Management | DE | Prof. Lödding | M-18 | EC | CM | 6 | Y | KL | Y | ÜA | 0 |
| 2 | Marketing (Vertrieb und Services / Innovationsmarketing) / Marketing (Sales and Services / Innovation Marketing) | EN | Prof. Lütjhe | W-3 | EC | CM | 6 | Y | FFA | | | |
| 2 | Operations Research / Operations Research | DE | Prof. Fischer | W-4 | EC | CM | 6 | Y | FFA | Y | GD | 10 |
| 2 | Projektmanagement / Project Management | DE / EN | Prof. Ringle | W-9 | EC | CM | 6 | Y | KL | Y | FFST | 33 |
| | | | | | | | | | | Y | FFST | 33 |
| 2 | Supply Chain Management / Supply Chain Management | DE | Prof. Blecker | W-2 | EC | CM | 6 | Y | KL | N | FFST | 15 |
| 2 | Technology Entrepreneurship / Technology Entrepreneurship | EN | Prof. Ihl | W-11 | EC | CM | 6 | Y | FFA | | | |
| 3 | Corporate Entrepreneurship & Growth / Corporate Entrepreneurship & Growth | EN | Prof. Ihl | W-11 | EC | CM | 6 | Y | FFA | Y | GD | 20 |

| Re com. Term | Module | | | | | | Examination | | | Course Work | | |
|---|--|----------|-----------------------|-----------|----------|-----------|-------------|-------|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | Module Responsibility | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| 3 | Führung, Organisation und Personalmanagement / Management, Organization and Human Resource Management | EN | Prof. Ringle | W-9 | EC | CM | 6 | Y | SA | Y | RE | 20 |
| 3 | Informationstechnologie in der Logistik / Information Technology in Logistics | DE | Prof. Blecker | W-2 | EC | CM | 6 | Y | SA | | | |
| 3 | Produktionscontrolling / Management Control Systems for Operations | DE | Prof. Kersten | W-2 | EC | CM | 6 | Y | KL | Y | FFST | 20 |
| 3 | Produktplanung / Product Planning | EN | Prof. Herstatt | W-7 | EC | CM | 6 | Y | KL | Y | FFST | 20 |
| 3 | Strategisches Management / Strategic Management | DE | Prof. Wrona | W-10 | EC | CM | 6 | Y | KL | N | FFST | 20 |
| 3 | Technologiemanagement / Technology Management | EN | Prof. Herstatt | W-7 | EC | CM | 6 | Y | KL | | | |
| Specialisation II. Civil Engineering Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Baugistik und Projektmanagement / Construction Logistics and Project Management | DE | Prof. Flämig | W-8 | EC | CM | 6 | Y | SA | | | |
| 2 | Baustatik und Baudynamik / Statics and Dynamics of Structures | DE | Prof. Starossek | B-4 | EC | CM | 6 | Y | KL | | | |
| 2 | Hafenbau und Hafenplanung / Harbour Engineering and Harbour Planning | DE | Prof. Fröhle | B-10 | EC | CM | 6 | Y | KL | | | |
| 2 | Spannbeton- und Massivbrückenbau / Design of Prestressed Structures and Concrete Bridges | DE | Prof. Rombach | B-7 | EC | CM | 6 | Y | KL | | | |
| 3 | Betontragwerke / Concrete Structures | DE | Prof. Rombach | B-7 | EC | CM | 6 | Y | KL | | | |
| 3 | Gewässerschutz / Water Protection | EN | Prof. Otterpohl | B-2 | EC | CM | 6 | Y | KL | | | |
| 3 | Konstruktionen im Grund- und Wasserbau / Structures in Foundation and Hydraulic Engineering | DE | Prof. Grabe | B-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Küstenwasserbau I / Coastal Hydraulic Engineering I | DE | Prof. Fröhle | B-10 | EC | CM | 6 | Y | KL | | | |
| 3 | Materialprüfung, Bauzustands- und Schadensanalyse / Examination of Materials, Structural Condition and Damages | DE | Prof. Schmidt-Döhl | B-3 | EC | CM | 6 | Y | KL | | | |
| 3 | Nachhaltigkeit und Risikomanagement / Sustainability and Risk Management | DE / EN | Prof. Kuchta | V-9 | EC | CM | 6 | Y | SA | | | |
| 3 | Nichtlineare Strukturanalyse / Nonlinear Structural Analysis | DE / EN | Prof. Düster | M-10 | EC | CM | 6 | Y | KL | | | |
| 3 | Spezialtiefbau und Bodenpraktikum / Advanced Foundation Engineering and Soil Laboratory Course | DE | Prof. Grabe | B-5 | EC | CM | 6 | Y | KL | Y | FFST | 0 |
| 3 | Stahl- und Verbundtragwerke / Steel and Composite Structures | DE | Prof. Rutner | B-4 | EC | CM | 6 | Y | KL | | | |
| Specialisation II. Electrical Engineering Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Bioelektromagnetik: Prinzipien und Anwendungen / Bioelectromagnetics: Principles and Applications | DE / EN | Prof. Schuster | E-18 | EC | CM | 6 | Y | MP | Y | RE | 10 |
| 2 | Grundlagen des IC-Entwurfes / Fundamentals of IC Design | DE / EN | Prof. Kuhl | E-9 | EC | CM | 6 | Y | MP | | | |
| 2 | Hochfrequenzbauelemente und -schaltungen I / Microwave Semiconductor Devices and Circuits I | DE / EN | Prof. Jacob | E-3 | EC | CM | 6 | Y | MP | | | |
| 2 | Informationstheorie und Codierung / Information Theory and Coding | DE / EN | Prof. Bauch | E-8 | EC | CM | 6 | Y | KL | | | |
| 2 | Mustererkennung und Datenkompression / Pattern Recognition and Data Compression | EN | Prof. Grigat | E-2 | EC | CM | 6 | Y | KL | | | |
| 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 |
| 3 | CMOS-Nanoelektronik mit Praktikum / CMOS Nanoelectronics with Practice | EN | NN | E-9 | EC | CM | 6 | Y | KL | Y | FFST | 0 |
| 3 | Digitale Nachrichtenübertragung / Digital Communications | DE / EN | Prof. Bauch | E-8 | EC | CM | 6 | Y | KL | Y | SA | 0 |
| 3 | Hochfrequenztechnik / Microwave Engineering | DE / EN | Prof. Jacob | E-3 | EC | CM | 6 | Y | KL | Y | FFST | 0 |
| 3 | Mikrosystemtechnik / Microsystem Engineering | EN | Prof. Kasper | E-7 | EC | CM | 6 | Y | KL | N | RE | 10 |
| 3 | Theorie und Entwurf regelungstechnischer Systeme / Control Systems Theory and Design | EN | Prof. Wemer | E-14 | EC | CM | 6 | Y | KL | | | |
| Specialisation II. Energy and Environmental Engineering Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Abwassersysteme / Wastewater Systems | DE / EN | Prof. Otterpohl | B-2 | EC | CM | 6 | Y | KL | | | |
| 2 | Automation und Simulation / Automation and Simulation | DE | NN | M-4 | EC | CM | 6 | Y | MP | | | |
| 2 | Dampferzeuger / Steam Generators | DE | Prof. Kather | M-5 | EC | CM | 6 | Y | KL | N | ÜA | 5 |
| 2 | Klimaanlagen / Air Conditioning | DE | Prof. Schmitz | M-21 | EC | CM | 6 | Y | KL | | | |
| 2 | Kraft-Wärme-Kopplung und Verbrennungstechnik / Combined Heat and Power and Combustion Technology | DE | Prof. Kather | M-5 | EC | CM | 6 | Y | KL | N | SA | 10 |
| 2 | Solarenergienutzung / Use of Solar Energy | DE | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Stromerzeugung aus Wind- und Wasserkraft / Electricity Generation from Wind and Hydro Power | DE | Dr. Geth | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Systemaspekte regenerativer Energien / System Aspects of Renewable Energies | DE | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 3 | Abfallbehandlungstechnologien / Waste Treatment Technologies | DE / EN | Prof. Kuchta | V-9 | EC | CM | 6 | Y | RE | Y | FFST | 0 |
| 3 | Abwasserreinigung und Luftreinhaltung / Wastewater Treatment and Air Pollution Abatement | DE / EN | Dr. Hartge | V-3 | EC | CM | 6 | Y | KL | | | |
| 3 | Bioressourcen und Bioraffinerien / Biosources and Biorefineries | EN | Dr. Kömer | B-2 | EC | CM | 6 | Y | KL | | | |

| Re com. Term | Module | | | | | | Examination | | | Course Work | | |
|--------------|--|----------|-----------------------|-----------|----------|-----------|-------------|-------|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | Module Responsibility | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| 3 | Dampfturbinen in Energie-, Umwelt- und Antriebstechnik / Steam Turbines in Energy, Environmental and Power Train Engineering | DE | Prof. Kather | M-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Ländliche Entwicklung und Ressourcen Orientierte Sanitärsysteme für verschiedene Klimare / Rural Development and Resources Oriented Sanitation for different Climate Zones | EN | Prof. Otterpohl | B-2 | EC | CM | 6 | Y | FFA | | | |
| 3 | Strömungsmechanik in der Verfahrenstechnik / Fluid Mechanics in Process Engineering | DE | Prof. Schlüter | V-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Transportprozesse / Transport Processes | EN | Prof. Schlüter | V-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Wärmetechnik / Thermal Engineering | DE | Prof. Schmitz | M-21 | EC | CM | 6 | Y | KL | | | |
| 3 | Wasserressourcen und -versorgung / Water Resources and -Supply | DE | Prof. Ernst | B-11 | EC | CM | 6 | Y | KL | | | |

Specialisation II. Information Technology Compulsory Courses: 0 LP Optional Courses: 12 LP

| | | | | | | | | | | | | |
|---|--|---------|------------------|------|----|----|---|---|-----|---|----|----|
| 2 | Anwendungssicherheit / Application Security | EN | Prof. Gollmann | E-15 | EC | CM | 6 | Y | KL | | | |
| 2 | Maschinelles Lernen und Data Mining / Machine Learning and Data Mining | EN | NN | E-16 | EC | CM | 6 | Y | KL | | | |
| 2 | Musterkennung und Datenkompression / Pattern Recognition and Data Compression | EN | Prof. Grigat | E-2 | EC | CM | 6 | Y | KL | | | |
| 3 | Digitale Bildanalyse / Digital Image Analysis | EN | Prof. Grigat | E-2 | EC | CM | 6 | Y | KL | | | |
| 3 | Digitale Nachrichtenübertragung / Digital Communications | DE / EN | Prof. Bauch | E-8 | EC | CM | 6 | Y | KL | Y | SA | 0 |
| 3 | Intelligente Autonome Agenten und kognitive Robotik / Intelligent Autonomous Agents and Cognitive Robotics | EN | Marone | E-16 | EC | CM | 6 | Y | KL | | | |
| 3 | Soft-Computing / Soft Computing | DE / EN | Prof. Zimmermann | E-13 | EC | CM | 6 | Y | MP | | | |
| 3 | Softwareanalyse / Software Analysis | EN | Prof. Schupp | E-16 | EC | CM | 6 | Y | FFA | | | |
| 3 | Softwareverifikation / Software Verification | EN | Prof. Schupp | E-16 | EC | CM | 6 | Y | KL | Y | ÜA | 15 |

Specialisation II. Logistics Compulsory Courses: 0 LP Optional Courses: 12 LP

| | | | | | | | | | | | | |
|---|---|----|------------------|------|----|----|---|---|----|---|------|----|
| 2 | Baulogistik und Projektmanagement / Construction Logistics and Project Management | DE | Prof. Flämig | W-8 | EC | CM | 6 | Y | SA | | | |
| 2 | Gütemobilität und Logistiksysteme / Mobility of Goods and Logistics Systems | EN | Prof. Flämig | W-8 | EC | CM | 6 | Y | KL | Y | EX | 0 |
| | | | | | | | | | | Y | ÜA | 0 |
| 2 | Hafenlogistik / Port Logistics | DE | Prof. Jahn | W-12 | EC | CM | 6 | Y | KL | N | SA | 15 |
| 2 | Integrierte Instandhaltung und Ersatzteillogistik / Integrated Maintenance and Spare Part Logistics | DE | Prof. Fischer | W-6 | EC | CM | 6 | Y | KL | | | |
| 2 | Maritimer Transport / Maritime Transport | DE | Prof. Jahn | W-12 | EC | CM | 6 | Y | KL | N | FFST | 15 |
| 2 | Technische Logistik Labor / Technical Logistics Laboratory | DE | Prof. Kreuzfeldt | W-6 | EC | CM | 6 | Y | SA | | | |
| 3 | Betrieb von Verkehrsflugzeugen / Transport Aircraft Operations | DE | Prof. Gollnick | M-28 | EC | CM | 6 | Y | KL | | | |
| 3 | Eisenbahnwesen / Railways | DE | Prof. Gertz | W-8 | EC | CM | 6 | Y | KL | | | |
| 3 | Fabrikplanung & Produktionslogistik / Factory Planning & Production Logistics | DE | Prof. Kreuzfeldt | W-6 | EC | CM | 6 | Y | KL | | | |
| 3 | Maschinelles Lernen in der Logistik / Machine Learning in Logistics | DE | Prof. Jahn | W-12 | EC | CM | 6 | Y | KL | | | |

Specialisation II. Aviation Systems Compulsory Courses: 0 LP Optional Courses: 12 LP

| | | | | | | | | | | | | |
|---|--|---------|-------------------|------|----|----|---|----------------------------------|----|--|--|--|
| 2 | Automation und Simulation / Automation and Simulation | DE | NN | M-4 | EC | CM | 6 | Y | MP | | | |
| 2 | Flugzeugsysteme II / Aircraft Systems II | DE | Prof. Thielecke | M-7 | EC | CM | 6 | Y | KL | | | |
| 2 | Klimaanlagen / Air Conditioning | DE | Prof. Schmitz | M-21 | EC | CM | 6 | Y | KL | | | |
| 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 | | | |
| 3 | Ausgewählte Themen der Flugzeug-Systemtechnik / Aircraft Systems Engineering | DE / EN | Prof. Thielecke | M-7 | EC | OM | 6 | Selection out of Catalogue below | | | | |
| 3 | Entwurf von Kabinensystemen / Cabin Systems Engineering | DE | Prof. God | M-25 | EC | CM | 6 | Y | KL | | | |
| 3 | Flugführung und Betrieb einer Luftverkehrsgesellschaft / Flight Guidance and Airline Operations | DE | Prof. Gollnick | M-28 | EC | CM | 6 | Y | KL | | | |
| 3 | Flughafenplanung und Betrieb / Airport Planning and Operations | DE | Prof. Gollnick | M-28 | EC | CM | 6 | Y | KL | | | |
| 3 | Flugphysik / Flight Physics | DE | Prof. Thielecke | M-7 | EC | CM | 6 | Y | KL | | | |
| 3 | Flugzeug-Kabinensysteme / Aircraft Cabin Systems | DE | Prof. God | M-25 | EC | CM | 6 | Y | KL | | | |
| 3 | Flugzeugsysteme I / Aircraft Systems I | DE | Prof. Thielecke | M-7 | EC | CM | 6 | Y | KL | | | |
| 3 | Methoden des Flugzeugentwurfs / Aircraft Design | DE / EN | Prof. Gollnick | M-28 | EC | CM | 6 | Y | KL | | | |

| Re com. Term | Module | | | | | | Examination | | | Course Work | | |
|--|--|----------|-----------------------|-----------|----------|-----------|-------------|-------|---------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | Module Responsibility | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Examination Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| Specialisation II. Mechatronics Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Nichtlineare Dynamik / Nonlinear Dynamics | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | |
| 2 | Numerische Strukturdynamik / Computational Structural Dynamics | DE | Prof. Düster | M-10 | EC | CM | 6 | Y | KL | | | |
| 3 | Ausgewählte Themen der Regelungstechnik / Advanced Topics in Control | EN | Prof. Wemer | E-14 | EC | CM | 6 | Y | MP | | | |
| 3 | Finite-Elemente-Methoden / Finite Elements Methods | EN | Prof. von Estoff | M-16 | EC | CM | 6 | Y | KL | N | MT | 20 |
| 3 | Fluidtechnik / Fluidics | DE | Prof. Krause | M-17 | EC | CM | 6 | Y | KL | | | |
| 3 | Mikrosystemtechnik / Microsystem Engineering | EN | Prof. Kasper | E-7 | EC | CM | 6 | Y | KL | N | RE | 10 |
| 3 | Mikrosystemtechnologie in Theorie und Praxis / Microsystems Technology in Theory and Practice | EN | Prof. Trieu | E-7 | EC | CM | 6 | Y | MP | Y | FFST | 0 |
| 3 | Prozessautomatisierungstechnik / Industrial Process Automation | EN | Prof. Schläfer | E-1 | EC | CM | 6 | Y | KL | Y | ÜA | 10 |
| 3 | Robotik / Robotics | EN | Prof. Weltin | M-24 | EC | CM | 6 | Y | KL | | | |
| 3 | Technische Schwingungslehre / Vibration Theory | DE / EN | Prof. Hoffmann | M-14 | EC | CM | 6 | Y | KL | | | |
| 3 | Theorie und Entwurf regelungstechnischer Systeme / Control Systems Theory and Design | EN | Prof. Wemer | E-14 | EC | CM | 6 | Y | KL | | | |
| Specialisation II. Product Development and Production Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Automation und Simulation / Automation and Simulation | DE | NN | M-4 | EC | CM | 6 | Y | MP | | | |
| 2 | Faser-Kunststoff-Verbunde / Fibre-polymer-composites | EN | Prof. Fiedler | M-11 | EC | CM | 6 | Y | KL | | | |
| 2 | High-Order FEM / High-Order FEM | EN | Prof. Düster | M-10 | EC | CM | 6 | Y | KL | N | RE | 10 |
| 2 | Methodisches Konstruieren / Mechanical Design Methodology | DE | Prof. Schlattmann | G-2 | EC | CM | 6 | Y | MP | | | |
| 2 | Phänomene und Methoden der Materialwissenschaften / Phenomena and Methods in Materials Science | DE / EN | Prof. Huber | M-22 | EC | CM | 6 | Y | KL | | | |
| 2 | Systems Engineering / Systems Engineering | DE | Prof. God | M-25 | EC | CM | 6 | Y | KL | | | |
| 3 | Arbeitswissenschaft / Ergonomics | DE | Dr. Bossemeyer | M-23 | EC | CM | 3 | Y | MP | | | |
| 3 | Fabrikplanung & Produktionslogistik / Factory Planning & Production Logistics | DE | Prof. Kreuzfeldt | W-6 | EC | CM | 6 | Y | KL | | | |
| 3 | Finite-Elemente-Methoden / Finite Elements Methods | EN | Prof. von Estoff | M-16 | EC | CM | 6 | Y | KL | N | MT | 20 |
| 3 | Fluidtechnik / Fluidics | DE | Prof. Krause | M-17 | EC | CM | 6 | Y | KL | | | |
| 3 | Methoden der integrierten Produktentwicklung / Methods of Integrated Product Development | DE | Prof. Krause | M-17 | EC | CM | 6 | Y | MP | | | |
| 3 | Produktionsplanung und -steuerung und Digitales Unternehmen / Production Planning & Control and Digital Enterprise | DE | Prof. Lödging | M-18 | EC | CM | 6 | Y | KL | | | |
| 3 | Robotik / Robotics | EN | Prof. Weltin | M-24 | EC | CM | 6 | Y | KL | | | |
| Specialisation II. Renewable Energy Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Abfall und Energie / Waste and Energy | EN | Prof. Kuchta | V-9 | EC | CM | 6 | Y | RE | Y | SA | 20 |
| 2 | Abfallbehandlung und Feststoffverfahrenstechnik / Waste Treatment and Solid Matter Process Technology | DE / EN | Prof. Kuchta | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Marine Bodentechnik / Marine Soil Technics | DE | Dr. Geth | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Solarenergienutzung / Use of Solar Energy | DE | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Stromerzeugung aus Wind- und Wasserkraft / Electricity Generation from Wind and Hydro Power | DE | Dr. Geth | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Systemaspekte regenerativer Energien / System Aspects of Renewable Energies | DE | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 3 | Bioenergie / Bioenergy | DE / EN | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 3 | Strömungsmechanik und Meeresenergie / Fluid Mechanics and Ocean Energy | DE | Prof. Schlüter | V-5 | EC | CM | 6 | Y | KL | Y | GD | 10 |
| Specialisation II. Process Engineering and Biotechnology Compulsory Courses: 0 LP Optional Courses: 12 LP | | | | | | | | | | | | |
| 2 | Abfallbehandlung und Feststoffverfahrenstechnik / Waste Treatment and Solid Matter Process Technology | DE / EN | Prof. Kuchta | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Abwassersysteme / Wastewater Systems | DE / EN | Prof. Otterpohl | B-2 | EC | CM | 6 | Y | KL | | | |
| 2 | BIO II: Gelenkersatz / BIO II: Artificial Joint Replacement | DE | Prof. Morlock | M-3 | EC | CM | 3 | Y | KL | | | |
| 2 | Bioprocess- und Biosystemtechnik / Bioprocess and Biosystems Engineering | EN | Prof. Zeng | V-1 | EC | CM | 6 | Y | KL | Y | RE | 20 |
| 2 | Hochdruckverfahrenstechnik / High Pressure Chemical Engineering | DE / EN | Dr. Johannsen | V-8 | EC | CM | 6 | Y | KL | Y | RE | 15 |
| 2 | Systemaspekte regenerativer Energien / System Aspects of Renewable Energies | DE | Prof. Kaltschmitt | V-9 | EC | CM | 6 | Y | KL | | | |
| 2 | Technische Mikrobiologie / Technical Microbiology | EN | Dr. Krüger | V-7 | EC | CM | 6 | Y | KL | | | |

| Re com. Term | Module | | | | | | Exami nation | | | Course Work | | |
|--|--|----------|-----------------------|-----------|----------|-----------|--------------|-------|----------------------|-------------|------------------|--------------|
| | Module Name (German / English) | Language | Module Responsibility | Institute | C/EC (1) | CM/OM (2) | CP (4) | Grade | Exami nation Form(3) | Compulsory | Course Work Type | Bonus (in %) |
| 3 | BIO II: Biomaterialien / BIO II: Biomaterials | EN | Prof. Morlock | M-3 | EC | CM | 3 | Y | KL | | | |
| 3 | Partikeltechnologie und Feststoffverfahrenstechnik / Particle Technology and Solid Matter Process Technology | DE | Prof. Heinrich | V-3 | EC | CM | 6 | Y | KL | Y | SA | 0 |
| 3 | Prozess- und Anlagentechnik II / Process and Plant Engineering II | DE | Prof. Fieg | V-4 | EC | CM | 6 | Y | KL | | | |
| 3 | Strömungsmechanik in der Verfahrenstechnik / Fluid Mechanics in Process Engineering | DE | Prof. Schlüter | V-5 | EC | CM | 6 | Y | KL | | | |
| 3 | Transportprozesse / Transport Processes | EN | Prof. Schlüter | V-5 | EC | CM | 6 | Y | KL | | | |
| Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP | | | | | | | | | | | | |
| 4 | Masterarbeit / Master Thesis | | Professoren der TUHH | 0-TUHH | C | CM | 30 | Y | AB | | | |

Aircraft Systems Engineering

| Course Name (German / English) | Course | | | | Exami nation | | | | Additional information |
|---|-------------------|--------------|---------|---------|--------------|-------|----------------------|--|------------------------|
| | Course Form LV(5) | Language (6) | SWS (7) | Sem. LV | CP (4) | Grade | Exami nation Form(3) | | |
| Ermüdung und Schadenstoleranz / Fatigue & Damage Tolerance | VL | EN | 2 | WiSe | 3 | Y | MP | | |
| Leichtbau mit Faserverbundwerkstoffen - Strukturmechanik / Lightweight Construction with Fibre Reinforced Polymers - Structural Mechanics | VL | DE | 2 | WiSe | 3 | Y | MP | | |
| Leichtbaupraktikum / Lightweight Design Practical Course | PBL | DE/EN | 3 | SoSe | 3 | Y | MP | | |
| Luftsicherheit / Aviation Security | VL | DE | 2 | WiSe | 2 | Y | KL | | |
| Luftsicherheit / Aviation Security | UE | DE | 1 | WiSe | 1 | Y | KL | | |
| Mechanismen, Systeme und Verfahren der Werkstoffprüfung / Mechanisms, Systems and Processes of Materials Testing | VL | DE | 2 | SoSe | 2 | Y | KL | | |
| Strahltriebwerke / Turbo Jet Engines | VL | DE | 2 | WiSe | 3 | Y | MP | | |
| Werkstoffprüfung / Materials Testing | VL | DE | 2 | WiSe | 2 | Y | KL | | |
| Zuverlässigkeit in der Maschinendynamik / Reliability in Engineering Dynamics | VL | EN | 2 | SoSe | 2 | Y | KL | | |
| Zuverlässigkeit in der Maschinendynamik / Reliability in Engineering Dynamics | UE | EN | 1 | SoSe | 2 | Y | KL | | |
| Zuverlässigkeit von Avionik-Baugruppen / Reliability of avionics assemblies | VL | DE | 2 | SoSe | 2 | Y | KL | | |
| Zuverlässigkeit von Avionik-Baugruppen / Reliability of avionics assemblies | UE | DE | 1 | SoSe | 1 | Y | KL | | |
| Zuverlässigkeit von Flugzeugsystemen / Reliability of Aircraft Systems | VL | DE | 2 | WiSe | 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, GD=Group discussion, ÜA=Exercises, AB=Thesis, EX=Participation in excursions

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, UE=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