Exclosure to Subject Specific Regulations
from 03.08.2018
for Bachelor-Programme Maschinenbau
at TUHH
Programme Director: Prof. Thorsten Schüppstuhl
Total: 180 CP
Number of Specilisations to choose: 1

Course Scheme Bachelor Mechanical Engineering (MBBS)

Consolidated Version
for Study Cohort: WiSe20/21
en_head_sda
and Approval of Chair from: 04.05.2022
Replaces Version from: 08.09.2021
In Force on: 01.10.2018
Out of Force on: 31.03.2025

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

	Module							Examination			Course Work		
	Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami-nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
Core Qualification Compulsory Courses: 144 LP Optional Courses: 6 LP													
	1	Informatik für Maschinenbau-Ingenieure / Computer Science for Mechanical Engineers	DE	Prof. Fey	E-13	C	CM	6	Y	KL	N	ÜA	10
	1	Mathematik I / Mathematics I	DE	Prof. Taraz	E-10	C	CM	8	Y	KL			
	1	Mechanik I (Stereostatik) / Mechanics I (Statics)	DE	Prof. Seifried	M-13	C	CM	6	Y	KL			
	1	Teamprojekt MB / Team Project MB	DE	Prof. Fiedler	M-11	C	CM	6	N	SA			
	1-2	Fertigungstechnik / Production Engineering	DE	Prof. Hintze	M-18	C	CM	6	Y	KL			
	1-2	Grundlagen der Werkstoffwissenschaften / Fundamentals of Materials Science	DE	Prof. Weißmüller	M-22	C	CM	6	Y	KL			
	2	Grundlagen der Konstruktionslehre / Fundamentals of Mechanical Engineering Design	DE	Prof. Krause	M-17	C	CM	6	Y	KL			
	2	Mathematik II / Mathematics II	DE	Prof. Taraz	E-10	C	CM	8	Y	KL			
	2	Mechanik II: Elastostatik / Mechanics II: Mechanics of Materials	DE	Prof. Cyron	M-15	C	CM	6	Y	KL			
	2	Technische Thermodynamik I / Technical Thermodynamics I	DE	Prof. Schmitz	M-21	C	CM	6	Y	KL			
	3	Grundlagen der Elektrotechnik / Basics of Electrical Engineering	DE	Prof. Kern	M-4	C	CM	6	Y	KL			
	3	Mathematik III / Mathematics III	DE	Prof. Taraz	0-UNIHH-M	C	CM	8	Y	KL			
	3	Mechanik III (Dynamik) / Mechanics III (Dynamics)	DE	Prof. Seifried	M-13	C	CM	6	Y	KL			
	3	Technische Thermodynamik II / Technical Thermodynamics II	DE	Prof. Speerforck	M-21	C	CM	6	Y	KL			

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	3-4	Konstruktionslehre Gestalten / Mechanical Engineering: Design	DE	Prof. Krause	M-17	C	CM	6	Y	KL	Y	SA	0
											Y	SA	0
											Y	SA	0
											Y	SA	0
	3-4	Vertiefte Konstruktionslehre / Advanced Mechanical Engineering Design	DE	Prof. Krause	M-17	C	CM	6	Y	KL			
	4	Mechanik IV (Schwingungen, Analytische Mechanik, Mehrkörpersysteme, Numerische Mechanik) / Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)	DE	Prof. Seifried	M-13	C	CM	6	Y	KL			
	4	Strömungsmechanik / Fluid Dynamics	DE / EN	Prof. Rung	M-8	C	CM	6	Y	KL			
	4	Elektrische Maschinen und Antriebe / Electrical Machines and Actuators	DE	Prof. Kern	M-4	EC	CM	6	Y	FFA			
	4	Grundlagen des Produktions- und Qualitätsmanagements / Fundamentals of Production and Quality Management	EN	Prof. Lödding	M-18	EC	CM	6	Y	KL			
	4	Moderne Werkstoffe / Advanced Materials	DE / EN	Prof. Huber	M-22	EC	CM	6	Y	KL			
	5	Großes Konstruktionsprojekt / Advanced Mechanical Design Project	DE	Dr. Schmidt	M-17	C	CM	6	Y	KL	Y	TE	0
	5	Grundlagen der Regelungstechnik / Introduction to Control Systems	DE	Prof. Werner	E-14	C	CM	6	Y	KL			
	5	Messtechnik für Maschinenbau / Measurement Technology for Mechanical Engineers	DE / EN	Prof. Kern	M-4	C	CM	6	Y	FFA	Y	FFST	0
	6	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	C	CM	6	Y	FFA			
	1-6	Nichttechnische Angebote im Bachelor / Non-technical Courses for Bachelors	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue				
Specialisation Biomechanics Compulsory Courses: 18 LP Optional Courses: 0 LP													
	4	MED I: Einführung in die Anatomie / MED I: Introduction to Anatomy	DE	Prof. Schumacher	M-3	C	CM	3	Y	KL			
	4	MED I: Einführung in die Radiologie und Strahlentherapie / MED I: Introduction to Radiology and Radiation Therapy	DE	Prof. Carl	M-3	C	CM	3	Y	KL			
	5	BIO I: Implantate und Frakturheilung / BIO I: Implants and Fracture Healing	DE	Prof. Morlock	M-3	C	CM	3	Y	KL			
	5	MED II: Einführung in die Biochemie und Molekularbiologie / MED II: Introduction to Biochemistry and Molecular Biology	DE	Prof. Kreienkamp	M-3	C	CM	3	Y	KL			

Module							Examination			Course Work		
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6	BIO I: Experimentelle Methoden der Biomechanik / BIO I: Experimental Methods in Biomechanics	DE	Prof. Morlock	M-3	C	CM	3	Y	KL			
6	MED II: Einführung in die Physiologie / MED II: Introduction to Physiology	DE	Dr. Zimmermann	M-3	C	CM	3	Y	KL			
Specialisation Energy Systems Compulsory Courses: 12 LP Optional Courses: 6 LP												
5	Wärmeübertragung / Heat Transfer	DE	Dr. Moschallski	M-21	C	CM	6	Y	KL			
5	Numerische Mathematik I / Numerical Mathematics I	EN	Prof. Le Borne	E-10	EC	CM	6	Y	KL			
5	Numerische Methoden der Thermofluiddynamik I / Computational Fluid Dynamics I	DE	Prof. Rung	M-8	EC	CM	6	Y	KL			
5	Wärmekraftwerke / Gas and Steam Power Plants	DE	Dr. Abel-Günther	M-5	EC	CM	6	Y	KL	N	ÜA	5
										N	GD	5
										N	SA	5
										N	RE	5
5-6	Kolbenmaschinen / Reciprocating Machinery	DE	Prof. Wirz	M-12	C	CM	6	Y	KL			
Specialisation Aircraft Systems Engineering Compulsory Courses: 18 LP Optional Courses: 0 LP												
5	Simulation und Entwurf mechatronischer Systeme / Simulation and Design of Mechatronic Systems	DE	NN	M-24	C	CM	6	Y	KL			
6	Integrierte Produktentwicklung und Leichtbau / Integrated Product Development and Lightweight Design	DE	Prof. Krause	M-17	C	CM	6	Y	KL	Y	FFST	20
6	Luftfahrtsysteme / Aeronautical Systems	DE	Prof. Thielecke	M-7	C	CM	6	Y	KL			
Specialisation Materials in Engineering Sciences Compulsory Courses: 18 LP Optional Courses: 0 LP												
5	Materialwissenschaftliches Praktikum / Material Science Laboratory	DE / EN	Prof. Pagnan Furlan	M-EXK3	C	CM	6	N	FFA			
6	Vertiefende Grundlagen der Werkstoffwissenschaften / Enhanced Fundamentals of Materials Science	DE / EN	Prof. Schneider	M-9	C	CM	6	Y	KL			
6	Werkstofftechnik: Werkstoffauswahl, Verarbeitung und Modellierung / Materials Engineering: Materials Selection, Processing and Modelling	EN	Prof. Huber	M-22	C	CM	6	Y	KL	Y	ÜA	20
Specialisation Mechatronics Compulsory Courses: 18 LP Optional Courses: 0 LP												
4	Mathematik IV / Mathematics IV	DE	Prof. Taraz	0-UNIHH-M	C	CM	6	Y	KL			

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5	Simulation und Entwurf mechatronischer Systeme / Simulation and Design of Mechatronic Systems	DE	NN	M-24	C	CM	6	Y	KL			
6	Halbleiterschaltungstechnik / Semiconductor Circuit Design	DE	Prof. Kuhl	E-9	C	CM	6	Y	KL			
Specialisation Product Development and Production Compulsory Courses: 18 LP Optional Courses: 0 LP												
5	Materialwissenschaftliches Praktikum / Material Science Laboratory	DE / EN	Prof. Pagnan Furlan	M-EXK3	C	CM	6	N	FFA			
5	Produktionstechnologie / Production Technology	DE	Prof. Hintze	M-18	C	CM	6	Y	KL			
6	Integrierte Produktentwicklung und Leichtbau / Integrated Product Development and Lightweight Design	DE	Prof. Krause	M-17	C	CM	6	Y	KL	Y	FFST	20
Specialisation Theoretical Mechanical Engineering Compulsory Courses: 12 LP Optional Courses: 6 LP												
5	Numerische Mathematik I / Numerical Mathematics I	EN	Prof. Le Borne	E-10	C	CM	6	Y	KL			
5	Wärmeübertragung / Heat Transfer	DE	Dr. Moschallski	M-21	EC	CM	6	Y	KL			
6	Modeling, Simulation and Optimization (EN) / Modeling, Simulation and Optimization (EN)	EN	Prof. Kriegesmann	M-24	C	CM	6	Y	MP			
6	Maschinelles Lernen I / Machine Learning I (lt. letzter PO Maschinelles Lernen)	DE / EN	Prof. Ay	SD-E	EC	CM	6	Y	KL	N	ÜA	20
6	Mathematik IV / Mathematics IV	DE	Prof. Taraz	0-UNIHH-M	EC	CM	6	Y	KL			
Thesis Compulsory Courses: 12 LP Optional Courses: 0 LP												
6	Bachelorarbeit / Bachelor Thesis		Professoren der TUHH	0-TUHH	C	CM	12	Y	AB			

Explanation:

[1]C=Compulsory, EC=Elective Compulsory
[2]CM=Compulsory Defined Module, OM=Optional Defined Module
[3]KL=Written exam, SA=Written elaboration, FFA=Subject theoretical and practical work, FFST=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, GD=Group discussion, ÜA=Excercises, AB=Thesis, TE=Attestation
[4]CP=Credit Points
[5]VL=Lecture, SE=Seminar, GÜ=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, HÜ=Recitation Section (large), IV=Integrated Lecture
[6]DE=German, EN=English, DE/EN=German and English
[7]SWS=Contact hours