

Exclosure to Subject Specific Regulations  
 from 25.07.2018  
 for Bachelor-Programme Elektrotechnik  
 at TUHH dual study program  
 Programme Director: Prof. Christian Becker  
 Total: 210 CP  
 Number of Specilisations to choose: 0

# Course Scheme Bachelor Electrical Engineering (ETBS) dual study program

Consolidated Version  
 for Study Cohort: WiSe22/23  
 en\_head\_sda  
 and Approval of Chair from:  
 04.05.2022  
 In Force on: 01.10.2022  
 Out of Force on: 31.03.2027

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

Re- com. Term	Module Name (German / English)	Module					Examination			Course Work		
		Language	ModuleResponsability	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami- nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
<b>Core Qualification</b> Compulsory Courses: 174 LP Optional Courses: 24 LP												
1	Elektrotechnik I: Gleichstromnetzwerke und elektromagnetische Felder / Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	DE	Prof. Kuhl	E-9	C	CM	6	Y	KL			
1	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	C	CM	6	Y	FFA			
1	Informatik für Ingenieure - Einführung & Überblick / Computer Science for Engineers - Introduction and Overview	DE / EN	Prof. Fey	E-13	C	CM	6	Y	KL	N	TE	10
1	Mathematik I / Mathematics I	DE	Prof. Taraz	E-10	C	CM	8	Y	KL	Y	ÜA	10
1	Praxismodul 1 im dualen Bachelor / Practical module 1 (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
1-2	Physik für Ingenieure / Physics for Engineers	DE / EN	Prof. Eich	E-12	C	CM	6	Y	KL	Y	FFST	0
2	Elektrotechnik II: Wechselstromnetzwerke und grundlegende Bauelemente / Electrical Engineering II: Alternating Current Networks and Basic Devices	DE	Prof. Becker	E-6	C	CM	6	Y	KL	N	MT	10
2	Informatik für Ingenieure - Programmierkonzepte, Data Handling & Kommunikation / Computer Science for Engineers - Programming Concepts, Data Handling & Communication	DE	Prof. Fröschle	E-15	C	CM	6	Y	KL	N	TE	10
2	Mathematik II / Mathematics II	DE	Prof. Taraz	E-10	C	CM	8	Y	KL	Y	ÜA	10
2	Praxismodul 2 im dualen Bachelor / Practical module 2 (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
2	Werkstoffe der Elektrotechnik / Materials in Electrical Engineering	DE	Prof. Eich	E-12	C	CM	6	Y	KL			
3	Elektrotechnik III: Netzwerktheorie und Transienten / Electrical Engineering III: Circuit Theory and Transients	DE	Prof. Kölpin	E-3	C	CM	6	Y	KL			

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3	Mathematik III / Mathematics III	DE	Prof. Taraz	0-UNIHH-M	C	CM	8	Y	KL			
3	Messtechnik und Messdatenverarbeitung / Measurements: Methods and Data Processing	DE	Prof. Schlaefer	E-1	C	CM	6	Y	KL	Y	ÜA	10
3	Praxismodul 3 im dualen Bachelor / Practical module 3 (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
3	Technische Informatik / Computer Engineering	DE / EN	Prof. Falk	E-13	C	CM	6	Y	KL	Y	ÜA	10
4	Elektrotechnisches Projektpraktikum / Electrical Engineering Project Laboratory	DE	Prof. Becker	E-6	C	CM	6	N	FFA			
4	Mathematik IV / Mathematics IV	DE	Prof. Taraz	0-UNIHH-M	C	CM	6	Y	KL			
4	Praxismodul 4 im dualen Bachelor / Practical module 4 (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
4	Signale und Systeme / Signals and Systems	DE / EN	Prof. Bauch	E-8	C	CM	6	Y	KL			
4	Theoretische Elektrotechnik I: Zeitunabhängige Felder / Theoretical Electrical Engineering I: Time-Independent Fields	DE	Prof. Schuster	E-18	C	CM	6	Y	KL			
4	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			
4	Elektrische Maschinen und Antriebe / Electrical Machines and Actuators	DE	Prof. Kern	M-4	EC	CM	6	Y	FFA			
5	Einführung in die Nachrichtentechnik und ihre stochastischen Methoden / Introduction to Communications and Random Processes	DE / EN	Prof. Bauch	E-8	C	CM	6	Y	KL			
5	Elektronische Bauelemente / Electronic Devices	DE	Prof. Trieu	E-7	C	CM	6	Y	KL	Y	FFST	10
5	Grundlagen der Regelungstechnik / Introduction to Control Systems	DE	Prof. Werner	E-14	C	CM	6	Y	KL			
5	Praxismodul 5 im dualen Bachelor / Practical module 5 (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
5	Theoretische Elektrotechnik II: Zeitabhängige Felder / Theoretical Electrical Engineering II: Time-Dependent Fields	DE	Prof. Schuster	E-18	C	CM	6	Y	KL			
5	Elektrische Energiesysteme I: Einführung in elektrische Energiesysteme / Electrical Power Systems I: Introduction to Electrical Power Systems	DE	Prof. Becker	E-6	EC	CM	6	Y	KL			
5	Numerische Mathematik I / Numerical Mathematics I	EN	Prof. Le Borne	E-10	EC	CM	6	Y	KL			

		Module					Examination			Course Work		
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5	Quantenmechanik für Studierende der Ingenieurwissenschaften / Quantum Mechanics for Engineers	DE	NN	0-UNIHH	EC	CM	6	Y	MP	N	SA	0
5	Rechnernetze und Internet-Sicherheit / Computernetworks and Internet Security	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	KL			
5	Technische Mechanik I (Stereostatik) / Engineering Mechanics I (Stereostatics)	DE	Prof. Kriegesmann	M-24	EC	CM	6	Y	KL			
6	Halbleiterschaltungstechnik / Semiconductor Circuit Design	DE	Prof. Kuhl	E-9	C	CM	6	Y	KL			
6	Einführung in Medizintechnische Systeme / Introduction into Medical Technology and Systems	DE	Prof. Schlaefer	E-1	EC	CM	6	Y	KL	Y	SA	10
										Y	RE	10
6	Eingebettete Systeme / Embedded Systems	EN	Prof. Falk	E-13	EC	CM	6	Y	KL	Y	FFST	10
6	Technische Mechanik II (Elastostatik) / Engineering Mechanics II (Elastostatics)	DE	Prof. Cyron	M-15	EC	CM	6	Y	KL			
1-6	Theorie-Praxis-Verzahnung im dualen Bachelor / Linking theory and practice (dual study program, Bachelor's degree)	DE	Dr. Haschke	0-SLS	C	CM	6	N	SA			
<b>Thesis</b> Compulsory Courses: 12 LP Optional Courses: 0 LP												
6	Bachelorarbeit im dualen Studium / Bachelor thesis (dual study program)		Professoren der TUHH	0-TUHH	C	CM	12	Y	AB			

### Explanation:

<sup>1</sup>C=Compulsory, EC=Elective Compulsory

<sup>2</sup>CM=Compulsory Defined Module, OM=Optional Defined Module

<sup>3</sup>KL=Written exam, MT=Midterm, SA=Written elaboration, FFST=Subject theoretical and practical work, FFA=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, ÜA=Exercises, AB=Thesis,

<sup>4</sup>TE=Attestation

<sup>4</sup>CP=Credit Points

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

<sup>6</sup>DE=German, EN=English, DE/EN=German and English

<sup>7</sup>SWS=Contact hours