

Exclosure to Subject Specific Regulations from 25.07.2018
for Master-Programme Energie- und Umwelttechnik
at TUHH
Programme Director: Prof. Kather, Prof. Heinrich
Total: 120 CP
Number of Specialisations to choose: 3

Course Scheme Master Energy and Environmental Engineering (EUTMS)

Consolidated Version
for Study Cohort: WiSe18/19
according to Decision of Academic Senate: 25.07.2018
and Approval of Chair from: 22.08.2018
In Force on: 01.10.2018
Out of Force on: 30.09.2021

Re com. Term	Module Name (German / English)	Module					Examination			Course Work		
		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: 36 LP Optional Courses: 0 LP												
1	Strömungsmechanik in der Verfahrenstechnik / Fluid Mechanics in Process Engineering	DE	Prof. Schlüter	V-5	C	CM	6	Y	KL			
1	Transportprozesse / Transport Processes	EN	Prof. Schlüter	V-5	C	CM	6	Y	KL			
2	Fachlabor Energie- und Umwelttechnik / Practical Course on Energy and Environmental Engineering	DE	Prof. Kather	M-5	C	CM	6	N	SA			
3	Seminar Energie- und Umwelttechnik / Seminar energy and environmental engineering	DE	Prof. Kather	M-5	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				
1-3	Betrieb & Management / Business & Management	DE / EN	Prof. Meyer	W-1	C	OM	6	Selection out of seperatly published Catalogue				
Specialisation Energy and Environmental Engineering Compulsory Courses: 0 LP Optional Courses: 18 LP												
1	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			
1	Ländliche Entwicklung und Ressourcen Orientierte Sanitärsysteme für verschiedene Klimate / Rural Development and Resources Oriented Sanitation for different Climate Zones	EN	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
1	Wasserressourcen und -versorgung / Water Resources and -Supply	DE	Prof. Ernst	B-11	EC	CM	6	Y	KL			
2	Abfallbehandlung und Feststoffverfahrenstechnik / Waste Treatment and Solid Matter Process Technology	DE / EN	Prof. Kuchta	V-9	EC	CM	6	Y	KL			
2	Klimaanlagen / Air Conditioning	DE	Prof. Schmitz	M-21	EC	CM	6	Y	KL			
2	Molekulare Modellierung und Numerische Strömungssimulation / Molecular Modeling and Computational Fluid Dynamics	EN	Prof. Schlüter	V-5	EC	CM	6	Y	MP			
2	Solarenergienutzung / Use of Solar Energy	DE	Prof. Kaltschmitt	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	Ausgewählte Prozesse der Feststoffverfahrenstechnik / Examples in Solid Process Engineering	DE / EN	Prof. Heinrich	V-3	EC	CM	6	Y	KL	Y	SA	0
3	Bioenergie / Bioenergy	DE / EN	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
3	Membran Technologie / Membrane Technology	EN	Prof. Ernst	B-11	EC	CM	6	Y	KL			
3	Projektierungskurs / Process Design Project	DE	Dozenten des SD V	V-9	EC	CM	6	N	FFA			
4	Risikomanagement, Wasserstoff- und Brennstoffzellentechnologie / Risk Management, Hydrogen and Fuel Cell Technology	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
Specialisation Energy Engineering Compulsory Courses: 0 LP Optional Courses: 18 LP												
1	Wärmetechnik / Thermal Engineering	DE	Prof. Schmitz	M-21	EC	CM	6	Y	KL			

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2	Dampferzeuger / Steam Generators	DE	Prof. Kather	M-5	EC	CM	6	Y	KL	N	ÜA	5
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	Stromerzeugung aus Wind- und Wasserkraft / Electricity Generation from Wind and Hydro Power	DE	Dr. Gerth	V-9	EC	CM	6	Y	KL			
3	Elektrische Energiesysteme I / Electrical Power Systems I	DE	Prof. Becker	E-6	EC	CM	6	Y	KL			
Specialisation Environmental Engineering Compulsory Courses: 0 LP Optional Courses: 18 LP												
1	Abwasserreinigung und Luftreinhaltung / Wastewater Treatment and Air Pollution Abatement	DE / EN	Dr. Hartge	V-3	EC	CM	6	Y	KL			
1	Umweltschutz und -management / Environmental Protection and Management	EN	Prof. Otterpohl	B-2	EC	CM	6	Y	KL			
2	Abwassersysteme / Wastewater Systems	DE / EN	Prof. Otterpohl	B-2	EC	CM	6	Y	KL			
2	Ingenieurgeochemie / Geochemical Engineering	EN	Dr. Gerth	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	Partikeltechnologie und Feststoffverfahrenstechnik / Particle Technology and Solid Matter Process Technology	DE	Prof. Heinrich	V-3	EC	CM	6	Y	KL	Y	SA	0
Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP												
4	Masterarbeit / Master Thesis		Professoren der TUHH	0-TUHH	C	CM	30	Y	AB			

Explanation:

¹C=Compulsory, EC=Elective Compulsory

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

³KL=Written exam, SA=Written elaboration, FFA=Subject theoretical and practical work, FFST=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, ÜA=Exercises, AB=Thesis

⁴CP=Credit Points

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

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

⁷SWS=Contact hours