Modulhandbuch

Renewable Energy Online - Master's Programme

im Wintersemester 2020/2021

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pre600 - Renewable Energy Basics 3
pre605 - Renewable Energy Laboratories & Excursions 4
pre610 - Introduction to Energy Resources and Systems 5
pre620 - Simulation and Laboratory 6
pre700 - Wind Energy Fundamentals & Wind Farm Design 7
pre701 - Design of Wind Turbines 8
pre702 - Fluid Dynamics 9
pre703 - Computational Fluid Dynamics 10
pre710 - Basics of Photovoltaics 11
pre711 - Solar Resources and Systems 12
pre720 - Energy Storage 13
pre730 - Selected Technologies of Renewable Energy 14
pre770 - Grid□-Connected & Off□-Grid RE Systems 15
pre771 - Grid Integration Project 16
pre772 - Off-Grid Electrification Project 17
pre760 - Introduction to Energy Meteorology 18
pre761 - Solar Energy Meteorology 19
pre780 - Energy and Society 20
pre781 - Renewable Energy & Sustainability 21
mam - Masterabschlussmodul 22

Kernbereich

pre600 - Renewable Energy Basics

Module label		Renewable Energy Basics	
Modulkürzel		pre600	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Kernbereich	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre605 - Renewable Energy Laboratories & Excursions

Module label		Renewable Energy Laboratories & Excursions	
Modulkürzel		pre605	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Kernbereich	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre610 - Introduction to Energy Resources and Systems

Module label		Introduction to Energy Resources and Systems	
Modulkürzel		pre610	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Kernbereich	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre620 - Simulation and Laboratory

Module label		Simulation and Laboratory	
Modulkürzel		pre620	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Kernbereich	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

Orientierungsbereich Technologie

pre700 - Wind Energy Fundamentals & Wind Farm Design

Module label		Wind Energy Fundamentals & Wind Farm Design	
Modulkürzel		pre700	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre701 - Design of Wind Turbines

Module label		Design of Wind Turbines	
Modulkürzel		pre701	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre702 - Fluid Dynamics

Module label		Fluid Dynamics	
Modulkürzel		pre702	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre703 - Computational Fluid Dynamics

Module label		Computational Fluid Dynamics	
Modulkürzel		pre703	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre710 - Basics of Photovoltaics

Module label		Basics of Photovoltaics	
Modulkürzel		pre710	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre711 - Solar Resources and Systems

Module label		Solar Resources and Systems	
Modulkürzel		pre711	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre720 - Energy Storage

Module label		Energy Storage	
Modulkürzel		pre720	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre730 - Selected Technologies of Renewable Energy

Module label		Selected Technologies of Renewable Energy	
Modulkürzel		pre730	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Technologie	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

Orientierungsbereich Systeme

pre770 - Grid•-Connected & Off•-Grid RE Systems

Module label		Grid•-Connected & Off•-Grid RE Systems	
Modulkürzel		pre770	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Systeme	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre771 - Grid Integration Project

Module label		Grid Integration Project	
Modulkürzel		pre771	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Systeme	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre772 - Off-Grid Electrification Project

Module label		Off-Grid Electrification Project	
Modulkürzel		pre772	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Systeme	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre760 - Introduction to Energy Meteorology

Module label		Introduction to Energy Meteorology	
Modulkürzel		pre760	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Systeme	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		German	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre761 - Solar Energy Meteorology

Module label		Solar Energy Meteorology	
Modulkürzel		pre761	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Systeme	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		German	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

Orientierungsbereich Sozialwissenschaften

pre780 - Energy and Society

Module label		Energy and Society	
Modulkürzel		pre780	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Sozialwissenschaften	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

pre781 - Renewable Energy & Sustainability

Module label		Renewable Energy & Sustainability	
Modulkürzel		pre781	
Credit points		6.0 KP	
Workload		180 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Orientierungsbereich Sozialwissenschaften	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			KL
Form of instruction	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		

Abschlussmodul

mam - Masterabschlussmodul

Module label		Masterabschlussmodul	
Modulkürzel		mam	
Credit points		30.0 KP	
Workload		900 h	
Verwendbarkeit des Moduls		• Master's Programme Renewable Energy Online (Master) > Abschlussmodul	
Zuständige Personen			
Prerequisites			
Skills to be acquired in this module			
Module contents			
Literaturempfehlungen			
Links			
Language of instruction		English	
Duration (semesters)		1 Semester	
Module frequency			
Module capacity		unlimited	
Examination	Prüfungszeiten		Type of examination
Final exam of module			G
Form of instruction	Seminar		
SWS	2		
Frequency	SoSe oder WiSe		