
Modulhandbuch

Renewable Energy Online - Master's Programme

im Summer semester 2024

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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			
Literatureempfehlungen			
Links			
Language of instruction	English		
Duration (semesters)	1 Semester		
Module frequency			
Module capacity	unlimited		
Examination	Prüfungszeiten	Type of examination	
Final exam of module			KL
Lehrveranstaltungsform	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		
Workload Präsenzzeit	56 h		

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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			
Literatureempfehlungen			
Links			
Language of instruction	English		
Duration (semesters)	1 Semester		
Module frequency			
Module capacity	unlimited		
Examination	Prüfungszeiten	Type of examination	
Final exam of module			KL
Lehrveranstaltungsform	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		
Workload Präsenzzeit	56 h		

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

pre731 - Advanced Topics of Renewable Energy I

Module label	Advanced Topics of Renewable Energy I	
Modulkürzel	pre731	
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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS		
Frequency	SoSe oder WiSe	

pre732 - Advanced Topics of Renewable Energy II

Module label	Advanced Topics of Renewable Energy II	
Modulkürzel	pre732	
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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS		
Frequency	SoSe oder WiSe	

pre734 - Advanced Topics of Renewable Energy IV

Module label	Advanced Topics of Renewable Energy IV	
Modulkürzel	pre734	
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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS		
Frequency	SoSe oder WiSe	

pre733 - Advanced Topics of Renewable Energy III

Module label	Advanced Topics of Renewable Energy III	
Modulkürzel	pre733	
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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS		
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
Lehrveranstaltungsform	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		
Workload Präsenzzeit	56 h		

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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		
Literatureempfehlungen		
Links		
Language of instruction	German	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

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	
Lehrveranstaltungsform	Seminar		
SWS	4		
Frequency	SoSe oder WiSe		
Workload Präsenzzeit	56 h		

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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS	4	
Frequency	SoSe oder WiSe	
Workload Präsenzzeit	56 h	

pre782 - Resilient Energy Systems

Module label	Resilient Energy Systems	
Modulkürzel	pre782	
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		
Literatureempfehlungen		
Links		
Language of instruction	English	
Duration (semesters)	1 Semester	
Module frequency		
Module capacity	unlimited	
Examination	Prüfungszeiten	Type of examination
Final exam of module		KL
Lehrveranstaltungsform	Seminar	
SWS		
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			
Literatureempfehlungen			
Links			
Language of instruction	English		
Duration (semesters)	1 Semester		
Module frequency			
Module capacity	unlimited		
Examination	Prüfungszeiten	Type of examination	
Final exam of module			G
Lehrveranstaltungsform	Seminar		
SWS	2		
Frequency	SoSe oder WiSe		
Workload Präsenzzeit	28 h		

