

Technische Fakultät / Faculty of Engineering Universität Freiburg / University of Freiburg



Master of Science (1-Fach) im Fach / in the subject
Sustainable Systems Engineering
Prüfungsordnungsverion 2016
Programm nach Modulen / Program sorted by areas

Term	Module	Area	mandatory elective	hours				ECTS	cycle
				V	Ü	S	Pr		
Mandatory Modules							65		
1	Solare Energie / Solar Energy	Mandatory	P	?	?	0	0	5	WS
1	Energiespeicherung / Energy Storage	Mandatory	P	?	?	0	0	5	WS
1	Netzintegration und Regelung / Control and Integration of Grids	Mandatory	P	?	?	0	0	5	WS
1	Fortgeschrittene Materialketten / Advanced Materials Chains	Mandatory	P	?	?	0	0	5	WS
1	Computergestützte Werkstofftechnik / Computational Materials Engineering	Mandatory	P	?	?	0	0	5	WS
1	Grundlagen resilienter/stabiler Systeme / Fundamentals of Resilience	Mandatory	P	?	?	0	0	5	WS
3	Masterprojekt	Mandatory	P	0	0	0	?	5	WS
4	Master's Thesis	Mandatory	P					27	WS, SS
4	Colloquium	Mandatory	P	0	0	2	0	3	WS, SS
Elective Modules							55		
Wahlmodule / Electives							10		
Students have to pass 2 modules out of 3.									
2	Bauelemente und Schaltungen der Leistungselektronik / Power Electronic Circuits and Devices	Wahlmodule / Electives	W	?	?	0	0	5	SS
2	Konzeption großer Infrastrukturen / Design of Large Infrastructures	Wahlmodule / Electives	W	?	?	0	0	5	SS
2	Sicherheit und Privatheit in resilienten Systemen / Security and Privacy in resilient Systems	Wahlmodule / Electives	W	?	?	0	0	5	SS
Technische Concentrations / Technical Concentrations							20		
Students have to select 2 concentration areas out of 4. In each concentration area students have to earn minimum 10 ECTS points. In total the student have to earn minimum 20 ECTS points.									
2 - 3	Energiesysteme / Energy Systems	Technical Concentrations	W	0	0	0	0	min. 10	WS, SS
2 - 3	Nachhaltige Materialien / Sustainable Materials	Technical Concentrations	W	0	0	0	0	min. 10	WS, SS
2 - 3	Resilienz / Resilience Engineering	Technical Concentrations	W	0	0	0	0	min. 10	WS, SS
2 - 3	Informationstechnik / Information Processing Technologies	Technical Concentrations	W	0	0	0	0	min. 10	WS, SS
Nichttechnische Concentrations / Non-Technical Concentrations							10		
Students have to earn minimum 10 ECTS points.									
2 - 3	Nichttechnische Concentrations / Non-technical Concentrations	Non-technical Concentrations	W	0	0	0	0	min. 10	WS, SS

Caption:

V=Lecture, Ü=Exercises/Tutorials, S=Seminar, Pr=Laborators, P=Mandatory, W=Elective, WS=Winter term, SS=Summer term