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Second statutes to amend the Study and Examination Regulations issued by the the Faculty of Energy and Life Science for the master's degree programme "Wind Energy Engineering" at Flensburg University of Applied Sciences (FUAS) dated: 20 march 2024

On the basis of § 52 para. 1 of the Hochschulgesetz (HSG, Higher Education Act) in the version of the notice dated 5 February 2016 (GVOBl. Schl.-H., page 39), last updated by article 1 of that law as of 3 February 2022 (GVOBl. Schl.-H. 2022, page 102) and following the resolution made by the Faculty Board of the Faculty of Energy and Life Science on 13 December 2023, the approval of the Senate of FUAS on 20 March 2024 and the permission granted by the President's Office of FUAS on 20 march 2024 the following statutes are issued.

Article 1

The Study and Examination Regulations issued by the he master's degree programme of Faculty of Mechanical Engineering, Process Engineering and Maritime Technologies and the Faculty of Energy and Biotechnology for the master's degree programme "Wind Energy Engineering" at FUAS, dated 17. June 2021, (university bulletin MBWK Schl.-H., page. 54), last amended by statutes issued by the Faculty of Energy and Life Science for the master's degree programme Wind Energy Engineering at FUAS, dated 23. December 2022 (university bulletin MBWFK Schl.-H., page 7) are amended as follows:

1. § 4, para. 1 is changed as follows:
   "The President's Office grants admission to the master's degree programme based on a recommendation made by Coordinator of the degree programme."
2. In Annex 1 to § 6, para. 1 the module and assessment plan for the 1st semester of the programme (winter semester) and the module and assessment plan for the 3rd semester of the programme are changed as follows:

1st semester of the programme (winter semester)					
Module				**Assessment**	
Module name	**Type of assess-ment**	**hpw**	**CP**	**Type of assess-ment**	**Form (hours if applicable)**
Advanced engineering mathematics	L/T	4	5	Ex	WE(2), OE
Global wind industry and turbine technology	L/T/Lab	4	5	Ex	WE(2), OE
Wind farm project management and GIS	L/T	4	5	Ex	OA (WR)
Scientific and technical writing	L/P	4	5	Ex	OA (WR)
Elective course Group a	see below	4	5	Ex	see below
Elective course Group b	see below	4	5	Ex	see below

All modules of the 1st semester of the programme	**24**	**30**	**6 EX**

Please note:
The Coordinator of the degree programme reserves the right to determine which of the Group A modules students may have to take: As a general rule, students with a degree in the field of Mechanical Engineering or Civil Engineering must complete the module “Electrical engineering basics”. Students with a degree in Electrical Engineering must complete the module “Mechanical engineering basics”. Students with a degree from all other fields can complete modules from Group a as a module from Group b.

The elective courses offered for the 1st semester of the programme (winter semester) are:

Module				**Assessment**	
Group a:	**Type of assess-ment**	**hpw**	**CP**	**Type of assess-ment**	**Form (hours if applicable)**
Mechanical engineering basics	L/T	4	5	Ex	WE(2), OE
Electrical engineering basics	L/T	4	5	Ex	WE(2), OE
Group b:	**Type of assess-ment**	**hpw**	**CP**	**Type of assess-ment**	**Form (hours if applicable)**
German for foreign students	L/T	4	5	Ex	OE, WE(1.5)
English for engineers	L/T	4	5	Ex	WE(2), OE
Energy economics	L/T	4	5	Ex	OA (Pres and WR)
Wind energy challenge project	P	4	5	Ex	OA (WR)
Green entrepreneurship	L/T	4	5	Ex	OA (WR)

3. semester of the programme (winter semester)

Module				**Assessment**	
Module name	**Type of assess ment**	**hpw**	**CP**	**Type of assess-ment**	**Form (hours if applicable)**
Project: development of a wind turbine	L/P	7[1)]	10	Ex	OA (Pres and WR)[2)]
Elective course	see below	4	5	see below	see below
Elective course	see below	4	5	see below	see below
Focus	see below	8	10	see below	see below
All modules of the 3rd semester of the		**30**	**30**	**5 Ex**	

programme			
[1] 4 hpw lecture (joint project discussion), 3 hpw project [2] Students work on a set task in teams of three to five. They document their work in a standardised manner.			

Focus[3]	Module				Assessment	
	Module name	Type of assess-ment	hpw	CP	Type of assess-ment	Form (hours if applicable)
Mechanical engineering	Machinery components	L/Sem	4	5	Ex	WE(2), OE
	Finite elements (FE) & fatigue analysis	L/T	4	5	Ex	OA (WR and HW) or written assessment
Electrical Engineering	Electrical machines, power electronics, control	L/T	4	5	Ex	WE(2), OE
	Grid integration	L	4	5	Ex	WE(2), OE
Structural engineering	Structures – rotorblades and civil engineering	L/T	4	5	Ex	WE(2), OE
	Finite elements (FE) & fatigue analysis	L/T	4	5	Ex	OA (WR and HW)
[3] Students are required to choose one of the three majors mentioned above (focus) in their 3rd semester.						

The elective courses offered for the 3rd semester of the programme (winter semester) are:					
Module				Assessment	
Module name	Type of assessment	hpw	CP	Type of assess-ment	Form (hours if applicable)
Advanced wind farm planning	L/Lab	4	5	Ex	OA (WR)
Turbine measurements	L/T	4	5	Ex	WE(2), OE
Offshore wind energy: operation and maintenance	L/T	4	5	Ex	OE
Experimental and computational fluid dynamics	L/Lab/T	4	5	Ex	OE
Modelling & simulation of wind turbines	L/Lab	4	5	Ex	WE(2), OE
Controller design for wind turbines and wind farms	L/T	4	5	Ex	OE
Wind energy challenge project	P	4	5	Ex	OA (WR)

Green entrepreneurship	L/T	4	5	Ex	OA (WR)
Please note: The list of modules offered will be updated each semester and will be posted on the notice board of the Dean's Office before the end of each teaching period for the following teaching period.					

Article 2

These statutes will come into effect on the day after their publication.

Flensburg, the 20 march 2024
FLENSBURG UNIVERSITY OF APPLIED SCIENCES

Faculty for Energy and Life Science
- The Dean -

Prof. Dr. Antje Labes