# Fourth Amending Statutes of the Fachprüfungsordnung (Subject-Specific Examination Regulations) for the Master's Degree Course Simulation and System Design at Hochschule Stralsund University of Applied Sciences

### from 13 October 2020

Based on § 2(1) in conjunction with § 38(1) of the *Landeshochschulgesetz* - LHG M-V (State Higher Education Law), in the version announced on 25 January 2011 (Law and Ordinance Gazette of Mecklenburg-Vorpommern (GVOBI. M-V) p. 18), last amended by Article 1 of the law of 28 September 2020 (GVOBI. M-V p. 878), Hochschule Stralsund, University of Applied Sciences (hereinafter UAS Stralsund) hereby passes the following amending statutes:

## Article 1

The Fachprüfungsordnung (hereinafter Course-Specific Examination Regulations) for the Master's Degree Course Simulation and System Design at UAS Stralsund of 18 May 2017, last amended by the Second Amending Statutes of the Course-Specific Examination Regulations for the Master's Degree Course Simulation and System Design of 11 November 2019 (date published on UAS Stralsund's homepage) is amended as follows:

- 1. § 2 will be amended as follows:
  - a) Paragraph 5 will be amended as follows:
    - "Admission to both degree paths also requires proof of knowledge of the following subject areas in accordance with the indicated degree of scope:
      - a high-level programming language of a scope of at least 4 SWS or 5 ECTS with a mark of at least 2,0 or an equivalent mark in a different kind of marking system

- regulation and control systems of a scope of at least 4 SWS or 5 ECTS with a mark of at least 2,0 or an equivalent mark in a different kind of marking system
- 3D modelling design of a scope of at least 4 SWS or 5 ECTS with a mark of at least 2,0 or an equivalent mark in a different kind of marking system

the underlying mathematical knowledge required by these subject areas.'

- 2. § 3 will be amended as follows:
  - a) Paragraph 3, number 4 is deleted.
  - b) In paragraph 5, first sentence, the words "One of the three" are replaced by the words "One of the two".
- 3. § 7 will be amended as follows:
  - a) Paragraph 2 will be amended as follows:

The following module examinations shall be taken for the modules named below to achieve the master's examination in the 3-semester master's degree:

Compulsory Module	Regular Examination Date for the Module Examination	Type and Scope of Marked Coursework	1 <sup>st</sup> Alternative	2 <sup>nd</sup> Alternative	Prerequisite for Admission to Examinations	ECTS Points per Module	Non- Marked Module s	Marked Modules without Weighting for Overall Mark	Marked Modules with Weighting for Overall Mark (in %)
SSDM 1000 Selected Chapters of Mathematics	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 1200 Applied Computer Science	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 2300 Applied Computational Fluid Dynamics	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)	Draft (60 hrs.)		6			11
SSDM 2400 Simulation in Mechanics & Processes	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)		Project (semester work)	6			12
SSDM 3200 International Economics & Trade	2 <sup>nd</sup> Semester	Case study (116 hrs.)	Coursework essay (90 hrs.) and Presentation (20 min.)			6	Х		0
SSDM 3500 International Accounting	2 <sup>nd</sup> Semester	Written examination (120 min.)				6			11
SSDM 5400 Vehicle Management Systems (incl. Simulation)	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)		Laboratory	6			12
SSDM 6000 Scientific Work	2 <sup>nd</sup> Semester	Coursework essay (90 hrs.)				6			12
WMSSDM XXXX Compulsory Elective Modules	2 <sup>nd</sup> Semester					12		х	0
SSDM 9000 Master's Dissertation and Colloquium									20

<sup>4&</sup>lt;sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

Master's Dissertation	3 <sup>rd</sup> Semester	see FPO	54 ECTS points from passed module examinations	27		70	
Master's Dissertation Colloquium	3 <sup>rd</sup> Semester	see FPO	60 ECTS points from passed module examinations	3		30	
			Total	90		10	0

Marked Regular **Modules ECTS Marked Modules** Examination Prerequisite for Non-**Compulsory Elective** Type and Scope of **Points** without with Weighting Date for the Admission to 1<sup>st</sup> Alternative 2<sup>nd</sup> Alternative marked Marked Coursework for Overall Mark Module per Weighting Module **Examinations** Modules Module (in %) for Examination **Overall Mark WMSSDM 2000** Written examination (60 Written examination (120 Lightweight Materials and 2<sup>nd</sup> Semester min.) and coursework 6 0 Laboratory Х min.) **Materials Selection** essay (30 hrs.) WMSSDM 2100 Renewable Written examination Oral examination 2<sup>nd</sup> Semester Presentation (30 min.) 6 0 Х **Energy Technology** (120 min.) (30 min.) **WMSSDM 2200** 2<sup>nd</sup> Semester Presentation (30 min.) 0 Х Project work Presentation (15 min.) of simulation results **WMSSDM 2500** Written Written examination (90 Oral examination (laboratory); **Automotive Lighting** 2<sup>nd</sup> Semester assignment 6 0 Х presentation (30 min.) min.) Engineering (90 hrs.) (15 min.) of simulation results (laboratory) **WMSSDM 2700** Written examination (120 Oral examination Thermodynamics of 2<sup>nd</sup> Semester 6 0 Х (30 min.) min.) **Multicomponent Systems** WMSSDM 2800 Stability of 2<sup>nd</sup> Semester Floating Systems Coursework essay (90 WMSSDM 3000 Human hrs.) 2<sup>nd</sup> Semester Case study (116 hours) 6 0 Х **Resources Management** and Presentation (20 min.)

<sup>4</sup>th Amending Statutes of the Fachprüfungsordnung (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

WMSSDM 3600 Quality in Automotive Industry	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (20 min.)			6	х	0
WMSSDM 5100 Production	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6	х	0
WMSSDM 5500 Vehicle Simulation & Test Drive	2 <sup>nd</sup> Semester	Coursework essay (30 hrs.)	Oral examination (20 min.)	Written examination (60 min.)		6	х	0
WMSSDM 5600 Simulation in Logistics and Production	2 <sup>nd</sup> Semester	Presentation with colloquium (45 min.)	Oral examination (30 min.)		Simulation programme, seminar	6	×	0

# b) Paragraph 3 will be amended as follows:

The following module examinations shall be taken for the modules named below to achieve the master's examination in the 4-semester master's degree:

a) If the practice semester (internship semester) is taking place in the first subject semester:

Compulsory Module	Regular Examination Date for the Module Examination	Type and Scope of Marked Coursework	1 <sup>st</sup> Alternative	2 <sup>nd</sup> Alternative	Prerequisite for Admission to Examinations	ECTS Points per Module	Non- Marked Module s	Marked Modules without Weighting for Overall Mark	Marked Modules with Weighting for Overall Mark (in %)
SSDM 8000 Internship Semester	1 <sup>st</sup> Semester	Internship report (approx. 20 pages) and presentation (30 min.) see StO, Appendix 1 Internship Guidelines				30	х		0
SSDM 1000 Selected Chapters of Mathematics	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 1200 Applied Computer Science	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 2300 Applied Computational Fluid Dynamics	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)	Draft (60 hrs.)		6			11

<sup>4</sup>th Amending Statutes of the Fachprüfungsordnung (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

SSDM 2400 Simulation in Mechanics & Processes	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)	Project (semester work)	6			12
SSDM 3200 International Economics & Trade	3 <sup>rd</sup> Semester	Case study (116 hrs.)	Coursework essay (90 hrs.) and Presentation (20 min.)		6	х		0
SSDM 3500 International Accounting	3 <sup>rd</sup> Semester	Written examination (120 min.)			6			11
SSDM 5400 Vehicle Management Systems (incl. Simulation)	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)	Laboratory	6			12
SSDM 6000 Scientific Work	3 <sup>rd</sup> Semester	Coursework essay (90 hrs.)			6			12
WMSSDM XXXX Compulsory Elective Modules	3 <sup>rd</sup> Semester				12		х	0
SSDM 9000 Master's Dissertation and Colloquium	4 <sup>th</sup> Semester							20

Master's Dissertation	4 <sup>th</sup> Semester	see FPO	54 ECTS points from passed module examinations	27		70
Master's Dissertation Colloquium	4 <sup>th</sup> Semester	see FPO	90 ECTS points from passed module examinations	3		30

Total 120 100

4<sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

Compulsory Elective Module	Regular Examination Date for the Module Examination	Type and Scope of Marked Coursework	1 <sup>st</sup> Alternative	2 <sup>nd</sup> Alternative	Prerequisite for Admission to Examinations	ECTS Points per Module	Non- marked Modules	Marked Modules without Weighting for Overall Mark	Marked Modules with Weighting for Overall Mark (in %)
WMSSDM 2000 Lightweight Materials and Materials Selection	3 <sup>rd</sup> Semester	Written examination (120 min.)	Written examination (60 min.) and coursework essay (30 hrs.)		Laboratory	6		х	0
WMSSDM 2100 Renewable Energy Technology	3 <sup>rd</sup> Semester	Presentation (30 min.)	Written examination (120 min.)	Oral examination (30 min.)		6		х	0
WMSSDM 2200 Project work	3 <sup>rd</sup> Semester	Presentation (30 min.)				6		x	0
WMSSDM 2500 Automotive Lighting Engineering	3 <sup>rd</sup> Semester	Written examination (90 min.)	Oral examination (30 min.)	Written assignment (90 hrs.)	Presentation (15 min.) of simulation results (laboratory); presentation (15 min.) of simulation results (laboratory)	6		x	0
WMSSDM 2700 Thermodynamics of Multicomponent Systems	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6		х	0
WMSSDM 2800 Stability of Floating Systems	3 <sup>rd</sup> Semester								
WMSSDM 3000 Human Resources Management	3 <sup>rd</sup> Semester	Case study (116 hours)	Coursework essay (90 hrs.) and Presentation (20 min.)			6		х	0
WMSSDM 3600 Quality in Automotive Industry	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (20 min.)			6		x	0
WMSSDM 5100 Production	3 <sup>rd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6		х	0
WMSSDM 5500 Vehicle Simulation & Test Drive	3 <sup>rd</sup> Semester	Coursework essay (30 hrs.)	Oral examination (20 min.)	Written examination (60 min.)		6		х	0

<sup>4&</sup>lt;sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

WMSSDM 5600 Simulation in Logistics and Production	3 <sup>rd</sup> Semester	Presentation with colloquium (45 min.)	Oral examination (30 min.)		Simulation programme, seminar	6		x	0	
--	--------------------------	--	-------------------------------	--	-------------------------------	---	--	---	---	--

4<sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

# b) If the practice semester (internship semester) is taking place in the third subject semester:

Compulsory Module	Regular Examination Date for the Module Examination	Type and Scope of Marked Coursework	1 <sup>st</sup> Alternative	2 <sup>nd</sup> Alternative	Prerequisite for Admission to Examinations	ECTS Points per Module	Non- Marked Modules	Marked Modules without Weighting for Overall Mark	Marked Modules with Weighting for Overall Mark (in %)
SSDM 1000 Selected Chapters of Mathematics	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 1200 Applied Computer Science	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6			11
SSDM 2300 Applied Computational Fluid Dynamics	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)	Draft (60 hrs.)		6			11
SSDM 2400 Simulation in Mechanics & Processes	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)		Project (semester work)	6			12
SSDM 3200 International Economics & Trade	2 <sup>nd</sup> Semester	Case study (116 hrs.)	Coursework essay (90 hrs.) and Presentation (20 min.)			6	x		0
SSDM 3500 International Accounting	2 <sup>nd</sup> Semester	Written examination (120 min.)				6			11
SSDM 5400 Vehicle Management Systems (incl. Simulation)	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)		Laboratory	6			12
SSDM 6000 Scientific Work	2 <sup>nd</sup> Semester	Coursework essay (90 hrs.)				6			12
WMSSDM XXXX Compulsory Elective Modules	2 <sup>nd</sup> Semester					18		х	0
SSDM 8000 Internship Semester	3 <sup>rd</sup> Semester	Internship report (approx. 20 pages) and presentation (30 min.) see StO, Appendix 1 Internship Guidelines				30	х		0
SSDM 9000 Master's Dissertation and									20

<sup>4</sup>th Amending Statutes of the Fachprüfungsordnung (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

Master's Dissertation  4th Semester  see FPO  Master's Dissertation Colloquium  4th Semester  see FPO  54 ECTS points from passed module examinations  70  90 ECTS points from passed module 3 examinations  30	Colloquium						
Master's Dissertation 4 <sup>th</sup> Semester see <i>FPO</i> passed module 3	Master's Dissertation	4 <sup>th</sup> Semester	see FPO	passed module	27		70
		4 <sup>th</sup> Semester	see FPO	passed module	3		30

Total 120 100

Compulsory Elective Module	Regular Examination Date for the Module Examination	Type and Scope of Marked Coursework	1 <sup>st</sup> Alternative	2 <sup>nd</sup> Alternative	Prerequisite for Admission to Examinations	ECTS Points per Module	Non- marked Modules	Marked Modules without Weighting for Overall Mark	Marked Modules with Weighting for Overall Mark (in %)
WMSSDM 2000 Lightweight Materials and Materials Selection	2 <sup>nd</sup> Semester	Written examination (120 min.)	Written examination (60 min.) and coursework essay (30 hrs.)		Laboratory	6		x	0
WMSSDM 2100 Renewable Energy Technology	2 <sup>nd</sup> Semester	Presentation (30 min.)	Written examination (120 min.)	Oral examination (30 min.)		6		X	0
WMSSDM 2200 Project work	2 <sup>nd</sup> Semester	Presentation (30 min.)				6		х	0
WMSSDM 2500 Automotive Lighting Engineering	2 <sup>nd</sup> Semester	Written examination (90 min.)	Oral examination (30 min.)	Written assignment (90 hrs.)	Presentation (15 min.) of simulation results (laboratory); presentation (15 min.) of simulation results (laboratory)	6		х	0
WMSSDM 2600 Advanced Technical Mechanics	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6		х	0
WMSSDM 2700 Thermodynamics of Multicomponent Systems	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6		х	0
WMSSDM 3000 Human Resources Management	2 <sup>nd</sup> Semester	Case study (116 hrs.)	Coursework essay (90 hrs.) and			6	_	х	0

<sup>4&</sup>lt;sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

			Presentation (20 min.)					
WMSSDM 3600 Quality in Automotive Industry	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (20 min.)			6	х	0
WMSSDM 5100 Production	2 <sup>nd</sup> Semester	Written examination (120 min.)	Oral examination (30 min.)			6	х	0
WMSSDM 5500 Vehicle Simulation & Test Drive	2 <sup>nd</sup> Semester	Coursework essay (30 hrs.)	Oral examination (20 min.)	Written examination (60 min.)		6	х	0
WMSSDM 5600 Simulation in Logistics and Production	2 <sup>nd</sup> Semester	Presentation with colloquium (45 min.)	Oral examination (30 min.)		Simulation programme, seminar	6	х	0

4<sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

c) Paragraph 8 will be amended as follows:

"If the student exceeds the required 12 ECTS points due to his/her selection of elective modules, a selection can be made from the passed modules."

### Article 2

- 1. These amending statutes enter into force on the day after they have been published on UAS Stralsund's website.
- 2. These amending statutes apply for the first time to students who enrolled for the master's degree course Simulation and System Design at UAS Stralsund in summer semester 2021.

Issued on the basis of the resolution made by the Academic Senate of UAS Stralsund of 29 September 2020 and following approval from the Rector of 13 October 2020.

Stralsund, 13 October 2020

The Rector of Hochschule Stralsund, University of Applied Sciences, Prof. Dr.-Ing. Petra Maier

4<sup>th</sup> Amending Statutes of the *Fachprüfungsordnung* (Subject-Specific Examination Regulations) Master's Degree Simulation & System Design

