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Study and examination regulations for the Master's degree programme Digital Farming at Weihenstephan-Triesdorf University of Applied Sciences (SPO-M-DF)

dated 7 February 2025

Based on Article 9, Article 80(1), Article 84(2)(1) of the Bavarian Higher Education Innovation Act (*Bayerisches Hochschulinnovationsgesetz*, BayHIG) of 5 August 2022 (Bavarian Government Gazette (GVBl) p. 414, Bavarian State Law (BayRS) 2210-1-3-WK), last amended by section 1 of the Regulation of 23 July 2024 (GVBl. p. 257), the Weihenstephan-Triesdorf University of Applied Sciences issues the following statutes:

§ 1
Aim of the study programme

(1) [1]The aim of the Master's degree programme Digital Farming, which is taught in English, is to impart skills in the development and application of digital technologies in the agricultural sector on the basis of a previous agricultural or technical degree. [2]This includes both information technology and agricultural skills as well as management competencies. [3]These skills enable students to independently and responsibly carry out wide-ranging tasks in the field of digitalisation of the agricultural sector in an international context. [4]Students will also acquire skills in planning, conducting and evaluating research projects. [5]The degree therefore qualifies students for both professional and research positions.

(2) [1]The degree programme is balanced between scientific and application-oriented content, with a particular emphasis on practical needs. [2]In addition to deepening and broadening the knowledge acquired in the undergraduate programme, students will independently analyse and develop solutions to application-oriented questions from professional practice. [3]Particular emphasis is placed on the acquisition of the specific skills required to perform these tasks. [4]This is accomplished through project and group work, student presentations, accompanying practical courses or seminar-based teaching. [5]The ability to work internationally is achieved through the international orientation of the degree programme and by ensuring and deepening professional and scientific language skills.

(3) [1]The Master's degree provides students with an application-oriented, scientifically sound professional and research qualification that enables them to take on highly qualified specialist and management roles with a focus on digital technologies in the

agricultural sector world-wide.[2]In particular, the study programme qualifies students for careers in consulting, sales & marketing, product management, public service (qualification level 4 / higher service), technical development and research.

§ 2
Standard period of study, structure of the degree programme

(1) The degree programme comprises a standard period of study of four full-time theoretical semesters, including the Master's thesis.

(2) [1]The study programme can only be started in the winter term. [2]The modules of the first and third semesters are offered in the winter term, the modules of the second semester in the summer term. [3]The final thesis is scheduled for the fourth semester.

§ 3
Admission requirements

(1) The following qualification requirements must be fulfilled for admission to the degree programme:

1. [1]A college or university degree with at least 180 EC or six semesters in the undergraduate agricultural degree programmes Agriculture, Horticulture, Agricultural Engineering, Agribusiness and Agricultural or Horticultural Sciences or in the undergraduate technical or information technology degree programmes Applied Computer Science, Computer Science, Electrical Engineering and Mechatronics Engineering. [2]Alternatively, a degree from an equivalent study programme at a German college or university or an equivalent degree from a foreign college or university entitles the applicant to admission. [3]The examination board decides on the equivalence of the degree, taking into account Artticle 86(1) BayHIG.

2. [1]Applicants who cannot provide proof of a Bachelor's degree taught in English, an equivalent first academic degree taught in English or a relevant higher education entrance qualification from an educational institution teaching in English must also provide proof of English language proficiency at the minimum level of B2 according to the Common European Framework of Reference for Languages. [2]The language examinations recognized as proof of language proficiency are published on the university's website. [3]Applicants whose official language in their home country is English or who have attended a school at which teaching is done in English for at least six years do not have to provide additional proof of English language proficiency.

(2) [1]The degree programme may be started before the admission requirements according to paragraph 1 number 1 have been met if the applicant provides evidence of the admission requirements by the end of the first semester at the latest. [2]In this case, a certificate must be submitted with the application stating that it is to be expected that the admission requirements according to paragraph 1 number 1 will be fulfilled during the aforementioned period. [3]If the proof according to paragraph 1 number 1 is not submitted within the period according to sentence 1, the student will be exmatriculated from the Master's degree programme.

§ 4
Master's thesis

(1) [1]The Master's thesis is an independent scientific work. [2]Students have to complete their Master's thesis within a time period of 6 months. [3]Students who have obtained at least 60 EC from the theoretical semesters are eligible to register for the Master's thesis. [4]The Master's thesis must be assessed by two examiners. [5]The Master's thesis can be conducted in Germany or abroad. [6]The Master's thesis must be written in English.

(2) [1]The final grade of the Master's thesis is the arithmetic mean of the two individual assessments. [2]If the two assessments of the examiners differ and the thesis is assessed once as passed and once as failed, the board of examiners shall appoint a third examiner; sentence 1 applies accordingly. [3]If the third examiner according to sentence 2 also assesses the thesis as passed, but the arithmetic mean of the three assessments exceeds the value 4.0, this value is rounded down to 4.0 and the work is assessed as passed.

(3) [1]Students have to present their Master's thesis in a colloquium lasting approximately 45 minutes. [2]The presentation shall be attended by the two examiners referred to in paragraph 1 sentence 4, who may ask additional questions. [3]For the final grade of the Master's thesis, the colloquium is taken into account according to the quota specified in the appendix.

§ 5
Promotion of language skills

For Students who do not hold a Bachelor's degree from a programme that was taught in German, an equivalent first academic degree taught in German or a relevant higher education entrance qualification from an educational institution teaching in German and whose official language in their home country is not German, the acquisition of German language skills at a minimum level of A2 according to the Common European Framework of Reference for Languages will be encouraged by the time they complete the study programme.

§ 6
Master's examination transcript

[1]After passing the Master's examination, the student receives a transcript corresponding to the template in the annex to the General Study and Examination Regulations of the university. [2]In addition, a Master's degree transcript will be issued in English.

§ 7
Academic degree and Diploma Supplement

(1) On successful completion of the Master's examination, the academic degree "Master of Science", abbreviated to "M. Sc.", is awarded and a Master's certificate is issued in accordance with the template in the annex to the General Study and Examination Regulations of the University.

(2) An English translation and a Diploma Supplement will be enclosed with the degree certificate. The Diploma Supplement describes the main subject matter of the degree, the structure of the study programme and the qualification obtained upon successful completion.

§ 8
Scope, entry into force

[1]These study and examination regulations enter into force on October 1st 2025.

Annex to the study and examination regulations for the master's programme Digital Farming at Weihenstephan-Triesdorf University of Applied Sciences (SPO-M-DF)

Overview of the modules and examinations

First study year

First study semester (first theoretical study semester)										
1	2	3	4	5	6	7	8	9	10	11
Modules					**Examinations**				**Grade calculations**	
No./Code	Module title	Type of course / teaching fo	SWS	EC	P.E. No. / Code	Exam type	Exam duration (Min.)	E. AdmReq	W. M-Grade	W. O-Grade
339251010	Plant production	SU, Ü	4	5		sP	60-120			1
339251020	Animal production and welfare	SU, Ü	4	5		sP	60-120			1
339251030	Foundations of programming	SU, Ü	4	5		sP	60-120			1
339251040	Data literacy and sensors	SU, Ü	4	5		sP	60-120			1
339251050	International agricultural production systems and markets	SU, Ü, PS	4	5		PoP: PA mit Präs / sP	2-12w 15-45 / 60-120			1
339251800	Elective	module-dependent*	4	5		module-dependent*	module-dependent*			1
	Sums		**24**	**30**						**6**

***The elective modules offered are regulated in the study plan in accordance with this module overview.**

Second study semester (second theoretical study semester)										
1	2	3	4	5	6	7	8	9	10	11
Modules					**Examinations**				**Grade calculations**	
No./Code	Module title	Type of course / teaching fo	SWS	EC	P.E. No. / Code	Exam type	Exam duration (Min.)	E. AdmReq	W. M-Grade	W. O-Grade
339252010	Artificial intelligence 1	SU, Ü, PS	4	5		PoP: PA mit Präs / sP	2-5w 15-45 / 60-120			1
339252020	Agricultural robotics	SU, P	4	5		Präs / sP	15-45 / 60-120			1
339252030	Precision livestock farming	SU, Ü	4	5		sP	60-120			1
339252040	Precision arable farming	SU, Ü	4	5		sP	60-120			1
339252050	Project management and scientific work	SU, PS	4	5		PA sP	2-5w 45-60		0,5 0,5	1
339252800	Elective	module-dependent*	4	5		module-dependent*	module-dependent*			1
	Sums		**24**	**30**						**6**

***The elective modules offered are regulated in the study plan in accordance with this module overview.**

Second study year

Third study semester (third theoretical study semester)										
1	2	3	4	5	6	7	8	9	10	11
Modules					**Examinations**				**Grade calculations**	
No./Code	Module title	Type of course / teaching fo	SWS	EC	P.E. No. / Code	Exam type	Exam duration (Min.)	E. AdmReq	W. M-Grade	W. O-Grade
339253010	Artificial intelligence 2	SU, Ü, PS	4	5		PoP: PA mit Präs / sP	2-5w 15-45 / 60-120			1
339253020	Project applied digital farming	S, PS	4	10		PoP: PA mit Präs / PoP: StA mit Präs	8-12w 15-45 / 8-12w 15-45			2
339253030	Seminar digital farming	S	2	5		Präs	15-45	TN		1
339253800	Electives (2 x 5 EC)	module-dependent*	8	10		module-dependent*	module-dependent*			(2x1)
	Sums		**18**	**30**						**6**

Annex to the study and examination regulations for the master's programme Digital Farming at Weihenstephan-Triesdorf University of Applied Sciences (SPO-M-DF)

Overview of the modules and examinations

***The elective modules offered are regulated in the study plan in accordance with this module overview.**

Fourth study semester (fourth theoretical study semester)										
1	2	3	4	5	6	7	8	9	10	11
Modules					**Examinations**				**Grade calculations**	
No./Code	Module title	Type of course / teaching fo	SWS	EC	P.E. No. / Code	Exam type	Exam duration (Min.)	E. AdmReq	W. M-Grade	W. O-Grade
339254000	Master's Thesis	PS		30 (25) (5)	339254001 339254002	Thesis Koll	45		0,8 0,2	6
	Sums		**0**	**30**						**6**

No.	**Title**	**Semester type**	**SWS**	**EC**	**Divisor***
1st	Study semester	theoretical	24	30	6
2nd	Study semester	theoretical	24	30	6
3rd	Study semester	theoretical	18	30	6
4th	Study semester	theoretical	0	30	6
	Sums		**66**	**120**	**24**

* Divisor for the calculation of the overall grade

Notes/abbreviations:

Column

1 Number, module code

2 Description, module name

3 Type of course/teaching formats in the module: SU = seminar-based tuition, P = practical course, Ü = exercise, S = seminar, PS = project work or project seminar

4 SWS = Weekly hours per semester = contact hours = teaching offer

5 ECTS credits, student workload, 1 EC = 30 hours of study

6 Number, assignment code of partial exam

7 Examination type: sP = written examination, mP = oral examination, StA = student research project, PA = project work, Koll = colloquium, PoP = portfolio exam consisting of multiple subexams of different types

8 Duration of examination in minutes if not stated otherwise; w = weeks; further details will be specified in the study plan.

9 E. AdmReq = admission requirements for the examination; TN = Proof of participation according to § 12 Abs. 3 ASPO (general study and examination regulations)

10 Weighting (W) for the calculation of the final module grade (M-Grade)

11 Weighting (W) of the final module grade for the calculation of the overall examination grade (O-Grade); in required elective modules, each 5 EC: score 1