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Examination Regulations

for

Environment and Energy, B.Sc.

Faculty of Communication and Environment Rhine-Waal University of Applied Sciences

from 19 June 2013 (Official Notice 10/2013)

As amended by the fourth amending statutes from 8 August 2025 (Official Notice 19/2025)

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Section 1 Scope

These examination regulations apply to Environment and Energy, B.Sc., offered in English by the Faculty of Communication and Environment of Rhine-Waal University of Applied Sciences, and are valid in conjunction with the General Examination Regulations for Bachelor's and Master's Degree Programmes of Rhine-Waal University of Applied Sciences. ("RPO") of Rhine-Waal University of Applied Sciences.

Section 2 Academic objectives; purpose of examination; degree awarded

- (1) The bachelor's examination concludes this degree programme and entitles graduates to continue their studies in a master's degree programme. The overall aims and objectives for this degree programme are outlined in Section 3 RPO. A strong command of English is key to success in this degree programme, as it provides the essential basis for the programme's continuous objective of expanding and honing students' professional language skills.
- (2) The academic degree "Bachelor of Science", abbreviated as "B.Sc.", is awarded for successfully completing the bachelor's examination.

Section 3 Admission requirements

- (1) General admission requirements are defined in Section 4 RPO.
- (2) Applicants are ineligible for admission if they have irrevocably failed their final attempt at a mandatory examination in the same degree programme at a university within the jurisdiction of the Basic Law of the Federal Republic of Germany; this also applies to previous degree programmes sharing a significant overlap in content with this degree programme.
- (3) Acceptable proof of English proficiency is set forth in Section 4 (5a) RPO.
- (4) Intentionally omitted.

Section 4 Basic internship

Proof of completion of a basic internship per Section 4 (3) RPO is not required, as this degree programme contains a sufficient amount of content specifically designed to impart practical skills and knowledge to students.

Section 5

Programme structure; volume of instruction hours; progression of studies

- (1) The total volume of instruction for this degree programme is 141 contact hours per week (CH, or SWS in German).
- (2) The modules of this degree programme comprise a total of 210 credits in accordance with the ECTS framework defined in Section 6 (5) RPO.
- (3) All modules and examinations are conducted in English. However, with approval of the Examination Board students in Environment and Energy may complete electives in German offered by other degree programmes at Rhine-Waal University of Applied Sciences.
- (4) Participation in curricular seminars, internships or practical labs is mandatory. These mandatory courses are marked with a pound sign (#) in the study and examination plan.
- (5) Mandatory courses (see subsection 4) have an attendance requirement of 75%. If a student is unable to fulfil the attendance requirement due to a long period of absence for justified reasons (for example illness, pregnancy or nursing leave), the responsible instructor can decide, upon request, if and how the student can make up for the period of absence and still pass the course. Section 16 (4) RPO applies with regard to compensatory arrangements.
- (6) Additional information about the breakdown of this degree programme and the type, form and scope of modules is available in the study and examination plan at the end of this document. Additional information about learning outcomes, qualification aims, contents and forms of examination can be found in the corresponding module guide on the website of Rhine-Waal University of Applied Sciences.

Section 6 Type and scope of examinations

- (1) Within a module, individual pass/fail certificates (refer to Section 20 RPO) can be made into prerequisites for attending the final written examination for that module. This applies to modules involving both a pass/fail certificate and a graded examination.
- (2) The time allotted to students for a written examination is based on the credit value of the respective course and will not exceed 120 minutes. For combined examinations (Section 14 (3) RPO), the time allotted can be reduced accordingly.
- (3) An oral examination generally lasts at least 15, but no more than 30 minutes per student.
- (4) The text portion of an assignment, term paper or project should not exceed 30 pages (DIN A4).

Section 7 Scope and form of the thesis

- (1) The text portion of the thesis should generally be between 40 and 60 DIN A4 pages in length. The thesis may be supplemented with other media, provided their use as additional documentation is appropriate and helpful within the context of the assigned task. In this case, the length of the text portion of the thesis may deviate from the aforementioned minimum requirement.
- (2) The thesis can also be submitted as group work if each student's individual contribution fulfils the requirements set forth in Section 23 (1) RPO and is clearly distinguishable (and thus assessable) due to clear and distinct separation by sections, page numbers or other criteria.

Section 8 Admission to the thesis and colloquium

- (1) In addition to the thesis admission requirements defined under Section 24 RPO, students must have earned 175 credits. The credit-bearing workshops in the seventh semester are explicitly excluded from this requirement and thus do not count towards the minimum credit requirement for admission to the thesis.
- (2) In addition to the colloquium admission requirements defined under Section 27 (2) RPO, candidates must also have obtained at least 207 CP.

Section 9 Credit values for the thesis and colloquium

- (1) Twelve credits are awarded for passing the bachelor's thesis.
- (2) Three credits are awarded for passing the colloquium.

Section 10 Awarding of the bachelor's degree

The academic degree specified in Section 2 (2) is officially conferred upon issuing of the bachelor's degree certificate defined in Section 30 (1) RPO.

Section 11 Entry into force / Transitional provisions

(1) These examination regulations will enter into force on the day after the publication of the German-language original as an Official Notice of Rhine-Waal University of Applied Sciences. They apply to students who first enrolled in Environment and Energy, B.Sc. of the Faculty of Communication and Environment of Rhine-Waal University of Applied Sciences in or after summer semester 2026.

Students who enrolled in Environment and Energy, B.Sc. before summer semester 2026 may continue their studies according to the previous examination regulations from 19 June 2013 (Official Notice 20/2013), as amended by the third amending statutes from 7 June 2018 (Official Notice 11/2018), until no later than 31 August 2032. The examination regulations from 19 June 2013 (Official Notice 20/2013), as amended by the third amending statutes from 7 June 2018 (Official Notice 26/2018), will expire on 1 September 2032.

- (3) Students currently studying according to the examination regulations from 19 June 2013 (Official Notices 20/2013), as amended by the third amending statutes from 7 June 2018 (Official Notices 11/2018), may request in writing to the Examination Board to switch to the examination regulations defined herein. The Examination Board is responsible for all credit recognition decisions for modules and examinations completed under previous examination regulations. Upon expiry of the examination regulations in the version of the third amending statutes from 7 June 2018, any students still studying under said examination regulations are considered to have switched to the present examination regulations automatically.
- (4) Elective modules set forth in the examination regulations can be attended by all students of Environment and Energy, B.Sc. A written request per subsection (3) is not required.

<u>Note:</u> These examination regulations entered into force in their present version on 29 October 2025.

Annex

Recommended study and examination plan for Environment and Energy, B.Sc.

ode No	Module	СН	L.			staltung		-	Te	СР	WS1	SS2	WS3	SS4	WS5	SS6	WS7
ennnr.)	Module	(SWS)	(V)	SL (SL)	S (S)	Ex (Ü)	PT (Pra)	Pro (Pro)	(Prü)	CP	WS1	SS2	WS3	SS4	WS5	SS6	WS7
8111	Fundamentals of Energy Management and Technology Grundlagen des Energiemanagements und der Energietechnik	5	3			2			E (P)	5	5						
8112	Mathematics: Analysis and Discrete Mathematics Mathematik: Analysis und diskrete Mathematik	4	2			2			E (P)	5	4						
8113	Introduction to Ecology and Environmental Sciences Einführung in die Ökologie und Umweltwissenschaften	5	3			2			E (P)	5	5						
8114	Fundamentals of Biology and Natural Cycles of Matter	5	3			2			E (P)	5	5						
8116	Grundlagen der Biologie und der natürlichen Stoffkreisläufe Physics: Mechanics	4	2			2			E (P)	5	4						
	Physik: Mechanik Fundamentals of Scientific Programming	-							C (T)		_						(E)
8125	Grundlagen des wissenschaftlichen Programmierens	4	3			1			E (P)	5	4					C(T))	E H
8121	General and Inorganic Chemistry # Allgemeine und anorganische Chemie #	5	2			1	2		E (P) C (T)	5		5				. ТЕ: С(() (0
8122	Evaluation of Ecosystems and Environmental Assessment # Ökosystem- und Umweltbewertung #	5	2				3		E (P) C (T)	5		5				CP; T	type: S; TE: (; 5 CP; type: 3; TE: C(T))
8123	Physics: Thermodynamics, Radiation and Heat Transfer	4	2			2			E (P)	5		4				r (30 (type: 5 CP 7 TE: 0
8124	Physik: Thermodynamik, Strahlung und Wärmeübertragung Linear Algebra and Graph Theory	4	2			2			E (P)	5		4				nes te	7; 5 CP; t (4 SW; type: S; (Kolloqu
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8126	Statistik und Datenverarbeitung	5	3			2		<u> </u>	E (P)	5		5				Auslands studiensemes ler (30 CP;	en) (4 Schrei W; 5
8127	Electrical Engineering Elektrotechnik	4	2			2			E (P)	5		4				slands	thes 5 (4 S 102 C
8131	Organic Chemistry and Analytical Chemistry # Organische Chemie und analytische Chemie #	5	2				3		E (P) C (T)	5			5				ngsm haftlic minar and 8
8132	Energy Technology	4	2			2		l	E (P)	5			4			is-oder	Research Methods (Forschungsmethoden) (4 SW; Scientific Writing (Wissenschaftliches Schreiben) (Advanced Seminar (Hauptseminar) (4 SW; 5 CP; ty siss (Bachelorarbett) (12 CP) and 8102 Colloquium issis (Bachelorarbett) (12 CP) and 8102 Colloquium is
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	Grundlagen der Betriebswirtschaftslehre Project Management and Intercultural Competence #	1	Ľ			-	-	-	E (P)	\vdash		-				road	fethoc friting femina rarbei
8134	Projektmanagement und interkulturelle Kompetenz #	4		4					C (T)	5			4			ter ab	rch M ific W ced S schelc
8135	Microbiology # Mikrobiologie #	4	2				2		E (P) C (T)	5			4			semes ter	Resea Scient Advan esis (Ba
8136	Fundamentals of Geodata Management Systems Grundlagen der Geoinformationssysteme	4	2			2			E (P)	5			4			p or s	Workshop 1: F Workshop 2: 9 Workshop 3: // Bachelor Thes
8141	Resource Management and Environmental Health	6	4			2			E (P)	5				6		Internship or	rkshc rkshc rkshc
8142	Ressourcenmanagement und Umwelthygiene Applied Measurement and Control	4	2			2				5				4		1 Inte	71 Wo 72 Wo 73 Wo 11 Bax
	Angewandte Verfahren der Mess- und Regelungstechnik Legal Fundamentals		-			-			E (P)							8161	8171 8172 8173 8101
8143	Rechtliche Grundlagen	4	4						E (P)	5				4			
8144	Entrepreneurship # Unternehmensgründung #	4	3			1			E (P)	5				4			
8151	Remediation and Redevelopment Sanierung und Standortentwicklung	5	4			1			E (P)	5					5		
8152	Process Engineering	5		4		1			E (P)	5					5		
	Verfahrenstechnik					-		-		Н							
8009	Interdisciplinary Project	6				l	1	6	F(P)	10					6		
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