Examination Regulations

for

Mobility and Logistics B.Sc.

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

Dated 19 June 2013
(Official Notices 11/2013)

As amended by the second amending statutes
Dated 9 December 2020
(Official Notice 13/2021)

In accordance with Section 2 (4) sentence 1, Section 28 (1) and Section 64 (1) of the Higher Education Act of North Rhine-Westphalia (*Hochschulgesetz NRW*), in the amended form produced by the Act for the Future Development of Universities (*Hochschulzukunftsgesetz*) of 16 September 2014 (GV.NRW. 2014, p. 547), which entered into force on 1 October 2014 and was last amended by the Act of 1 December 2020 (GV.NRW., p. 1110), which entered into force on 8 December 2020, as well as in accordance with the General Examination Regulations for Bachelor's and Master's Degree Programmes of Rhine-Waal University of Applied Sciences (RPO) from 3 January 2018 (Official Notice 07/2018), the Faculty Council of the Faculty of Society and Economics of Rhine-Waal University of Applied Sciences has enacted the following Examination Regulations for Mobility and Logistics B.Sc.:

Contents

Section 1
Scope

These Examination Regulations apply to Mobility and Logistics B.Sc., offered in English by the Faculty of Communication and Environment of Rhine-Waal University of Applied Sciences, in conjunction with the General Examination Regulations for Bachelor's and Master's Degree Programmes ("RPO") of Rhine-Waal University of Applied Sciences. They govern the standard seven-semester mode of study (full-time); the nine-semester, dual-vocational mode of study (dual); and the nine-semester mode of study for working professionals (part-time).

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 the English language is essential to success in this degree programme, as it is a necessary prerequisite for the overarching goal of consolidating and expanding students' technical language and communication skills.

(2) The academic degree "Bachelor of Science", abbreviated as "B.Sc.", is awarded upon successful completion of 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 previously failed the final attempt at a mandatory examination in a degree programme at a university that is subject to German Basic Law which shares a significant overlap in content with the degree programme governed by these Examination Regulations.

(3) For English language requirements, refer to Section 4 (5a) RPO.

Section 4
Basic internship

The basic eight-week internship as defined by Section 4 (3) RPO should be completed at an external company, public authority or other organisation and familiarise students with the field of logistics. Section 4 (3) to (5) RPO apply analogously to the basic internship.

Section 5
Programme structure; volume of instruction hours; progression of studies

(1) This degree programme has a total volume of instruction of 132 weekly contact hours (SWS, *Semesterwochenstunden*).

(2) The modules of this degree programme comprise a total sum of 210 credits and conform to 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 this degree programme may complete electives in German offered by other degree programmes at Rhine-Waal University of Applied Sciences. For the interdisciplinary project students may also work in German-based project groups.

(4) On-the-job vocational training is an integral part of the dual study variant for this degree programme and occurs concurrently over the first four semesters. Both the vocational training position and the training company must be in the same field as this degree programme. The faculty is responsible for judging the relevance of a proposed dual study arrangement. In the "dual" phase of study, the contents of the first two semesters for full-time students are instead taught over four semesters. During this phase, the dual study student will spend two weekdays at the university and three at the company where he or she is training. The dual phase usually concludes before the fifth semester with a comprehensive examination (in German) at the regional Chamber of Industry and Commerce.

(5) In the part-time study arrangement for this degree programme, professionals in the workforce can study on a part-time basis while continuing their career. Accordingly, part-time students may study according to the dual-vocational module progression for their first four semesters. This means the contents of the first two semesters for full-time students are taught over four semesters instead. During this time, the part-time student will spend two weekdays at the university and three at their place of employment. The student is then responsible for organising his or her studies for the remaining semesters.

(6) Additional information about how this degree programme is organised and the type, form and scope of modules can be found in the attached study and examination plan (see annex). Additional information about learning outcomes, qualification aims, contents and forms of examination can be found in the corresponding module guide, which is available for viewing in the faculty's central office.

Section 6
Scope of examinations

(1) Within a module, individual pass/fail certificates (refer to Section 20 RPO) may be compulsory requirements 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 may not exceed 120 minutes. For combined examinations (Section 14 (3) RPO), the time allotted can be reduced accordingly.

(3) An oral examination generally lasts between 15 and 30 minutes per student.

(4) An assignment, term paper or project should generally not exceed 30 pages (DIN A4).

(5) Assignments, term papers or projects can be approved as group work if each student's individual contribution fulfils the requirements above and is clearly distinguishable – and thus assessable – due to distinct separation by section, page numbers or other criteria. In this case, the text portion for each participating group member should not exceed 20 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 pages in length (DIN A4). The thesis may also 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 permitted as group work if each student's individual contribution meets the requirements in under Section 23 (1) RPO and is clearly distinguishable – and thus assessable – due to distinct separation by section, 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 also have obtained at least 175 credits.

(2) In addition to the colloquium admission requirements defined under Section 27 (2) RPO, students must also have obtained at least 207 credits.

Section 9
Credit values for the thesis and colloquium

(1) Twelve credits are awarded for passing the thesis.

(2) Three credits are awarded for passing the colloquium.

Section 10
Awarding of the bachelor's degree

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

Section 11
Entry into force / transitional provisions

(1) These examination regulations shall enter into force on the day after publication of the German-language original in the Official Notices of Rhine-Waal University of Applied Sciences. They apply to students who first enrolled in Mobility and Logistics B.Sc. of the Faculty of Communication and Environment of Rhine-Waal University of Applied Sciences in or after winter semester 2021-2022.

(2) Students who enrolled in Mobility and Logistics B.Sc. before winter semester 2021-2022 may continue their studies according to the examination regulations dated 19 June 2013 (Official Notices 11/2013) and amended by the first amending statutes on 4 April 2017 (Official Notices 10/2019) until no later than 29 February 2028. Accordingly, the examination regulations dated 19 June 2013 (Official Notices 11/2013), as amended by the first amending statutes on 4 April 2017 (Official Notices 10/2017), shall expire on 1 March 2028.

(3) Students currently studying according to the examination regulations dated 19 June 2013 (Official Notice 11/2013), as amended by the first amending statutes on 4 April 2017 (Official Notice 10/2017), may submit a written request to the Examination Board to switch to these new Examination Regulations. The Examination Board is responsible for all credit recognition decisions.

Note: These examination regulations entered into force on 31 March 2021.

Annex: Recommended full-time study and examination plan for Mobility and Logistics B.Sc.

Version vom 27.06.2019

Code No (Kennnummer)	Module	SW (SWS)	L (V)	SL (SL)	S (S)	Ex (Ü)	PT (Pra)	Pro (Pro)	TE (Prü)	CP (CP)	WS1	SS2	WS3	SS4	WS5	SS6	WS7
ML_1.01	Fundamentals of Business Administration (Grundlagen der Betriebswirtschaft)	4	2			2			E (P)	5	4						
ML_1.02	Fundamentals of Logistics (Grundlagen der Logistik)	4	2			2			E (P)	5	4						
ML_1.03	Technical Fundamentals (Technische Grundlagen)	4	2			2			E (P)	5	4						
ML_1.04	Fundamentals of Computer Science and Networks (Grundlagen der Informatik)	4	3			1			E (P)	5	4						
ML_1.05	Analysis and discrete mathematics (Analysis und diskrete Mathematik)	4	2			2			E (P)	5	4						
ML_1.06	Introduction into Scientific Working (Einführung in das wissenschaftliche Arbeiten)	4		4					C (T)	5	4						
ML_2.01	Technical Logistic Systems (Technische Logistik Systeme)	4	2			2			E (P)	5		4					
ML_2.02	Planning Logistics Systems and Processes (Logistische System- und Prozessplanung)	4	2			2			E (P)	5		4					
ML_2.03	Statistics (Statistik)	4	2			2			E (P)	5		4					
ML_2.04	Object Oriented Programming (Objektorientierte Programmierung)	6	2			4			E (P)	5		6					
ML_2.05	Linear algebra and graph theory (Lineare Algebra und Graphentheorie)	4	2			2			E (P)	5		4					
ML_2.06	Project Management (Projektmanagement)	4		4					C (T)	5		4					
ML_3.01	Financial and Management Accounting (Buchhaltung und Rechnungswesen)	4	2			2			E (P)	5			4				
ML_3.02	Production Logistics (Produktionslogistik)	4	2			2			E (P)	5			4				
ML_3.03	Decision Making Methods (Entscheidungsverfahren)	4		4					C (T)	5			4				
ML_3.04	Data Management (Datenmanagement)	4	2			2			E (P)	5			4				
ML_3.05	Linear optimization and operations research (Lineare Optimierung und Operations Research)	4	2			2			E (P)	5			4				
ML_3.06	Traffic Planning and Engineering (Verkehrsplanung und Verkehrstechnik)	4	2			2			E (P)	5			4				
ML_4.01	Logistics and Traffic Infrastructures (Logistikanlagen und Verkehrsinfrastrukturen)	4	2			2			E (P)	5				4			
ML_4.02	Supply Chain Management (Supply Chain Management)	4	2			2			E (P)	5				4			
ML_4.03	Identification & Automation (Identifikation & Automatisierung)	4	2			2			E (P)	5				4			
ML_4.04	Business Information Systems (Betriebliche Informationssysteme)	4		4					C (T)	5				4			
ML_5.01	Freight Logistics (Gütertransport)	4	2			2			E (P)	5					4		
ML_5.02	Legal requirements and international regulations (Rechtliche Anforderungen und internationale Richtlinien)	4	2			2			E (P)	5					4		
ML_5.03	Interdisciplinary Project (Interdisziplinäres Projekt)	6						6	E (P)	10					6		
	Elective courses * (Wahlpflichtkurse *)	16								20					8		8
	Semester hours per week (total)	120								150	24	26	24	24	22	30	30

Column SS6 (vertical text): ML_6.01: Internship or semester abroad (30 CP; TE: C(T)) (Praxis- oder Auslandssemester)

Column WS7 (vertical text): ML_7.01: Workshop 1: Research Methods (Forschungsmethoden)(4 SW; 5 CP; type S, TE: C(T)); ML_7.02: Workshop 2: Scientific Writing(Wissenschaftliches Schreiben) (4 SW; 5 CP; type S, TE: C(T)); ML_7.03: Workshop 3: Advanced Seminar (Hauptseminar) (4 SW; 5 CP; type S; TE: C(T)); ML_7.04: Bachelor Thesis (Bachelorarbeit) (12 CP) and Colloquium (Kolloquium) (3 CP)

150 CP — 120 SW — 12 SW — 60 CP

Credit Points: 210

Allocation				WS1	SS2	WS3	SS4	WS5	SS6	WS7
	SW	total	132	24	26	24	24	22		12
	CP	total	210	30	30	30	30	30	30	30

Code No (Kennnummer)	Elective Courses (Wahlpflichtkurse)	SW (SWS)	CP (CP)	TE (Prü)
ML_W.01	Logistic Simulations / Logistik Simulation	4	5	E (P)
ML_W.02	Lean Management / Lean Management	4	5	E (P)
ML_W.03	Harbour and Airport Logistics / Hafen und Flughafen Logistik	4	5	E (P)
ML_W.04	Procurement and Distribution Logistics / Beschaffungs- und Distributions-Logistik	4	5	E (P)
ML_W.05	Strategic Managment and Business Planning / Strategisches Management und Businessplanung	4	5	E (P)
ML_W.06	Quality and Risk Management / Qualitäts- und Risikomanagement	4	5	E (P)
ML_W.07	Ambient Intelligent Systems / Ambient Intelligent Systems	4	5	E (P)
ML_W.08	Geoinformation Systems / Geoinformationssysteme	4	5	E (P)

Abkürzungen/Abbreviations

SW (SWS)	Semester hours per week (Semesterwochenstunden)
L (V)	Lecture (Vorlesung)
SL	Seminaristic lecture (Seminaristische Lehrveranstaltung)
S	Seminar (Seminar)
Ex (Ü)	Exercise (Übung)
PT (Pra)	Practical training (Praktikum)
Pro	Project (Projekt)
TE (Prü)	Type of examination (Prüfungsform)
CP	Credit Points
WS	Winter semester (Wintersemester)
SS	Summer semester (Sommersemester)
E (P)	Examination (Prüfung)
C (T)	Certificate (Testat)

* Im Wahlpflichtbereich können mit vorhergehender Zustimmung des Prüfungsausschusses maximal 5 CP fachlich geeigneter Kurse aus dem gesamten Studienangebot der Hochschule Rhein- Waal belegt werden. Als fachlich geeignete Kurse gelten entsprechend ausgewiesene Sprachkurse des Sprachenzentrums sowie Wahlpflichtkurse anderer technischer und ökonomischer Studiengänge der Hochschule Rhein-Waal.
* As elective subjects, a maximum of 5 CP of appropriate courses can be chosen with the consent of the examination committee from any study programme at the Rhine-Waal University of Applied Sciences. Appropiate courses are the designated language courses from the language center and elective courses from other technical or economical degree programmes.

** Die Fakultät behält sich das Recht vor eine Mindestteilnehmerzahl für das Zustandekommen eines Wahlpflichtkurses festzulegen. Die Möglichkeit des Erreichens der vorgeschriebenen Kreditpunktanzahl aus dem Wahlpflichtbereich bleibt unberührt.
** The faculty reserves the right to determine a minimum number of participants for offering an elective subject. The possibility to obtain the required number of credit points remains unaffected.

Recommended dual-vocational study and examination plan for Mobility and Logistics B.Sc.

Version vom #BEZUG!

Code No (Kennnummer)	Module	SW (SWS)	L (V)	SL (SL)	S (S)	Ex (Ü)	PT (Pra)	Pro (Pro)	TE (Prü)	CP (CP)	WS1	SS2	WS3	SS4	WS5	SS6	WS7	SS8	WS9
ML_1.01	**Fundamentals of Business Administration** (Grundlagen der Betriebswirtschaft)	4	2			2			E (P)	5	4								
ML_1.02	**Fundamentals of Logistics** (Grundlagen der Logistik)	4	2			2			E (P)	5	4								
ML_1.05	**Analysis and discrete mathematics** (Analysis und diskrete Mathematik)	4	2			2			E (P)	5	4								
ML_2.01	**Technical Logistic Systems** (Technische Logistik Systeme)	4	2			2			E (P)	5		4							
ML_2.02	**Planning Logistics Systems and Processes** (Logistische System- und Prozessplanung)	4	2			2			E (P)	5		4							
ML_2.05	**Linear algebra and graph theory** (Lineare Algebra und Graphentheorie)	4	2			2			E (P)	5		4							
ML_1.03	**Technical Fundamentals** (Technische Grundlagen)	4	2			2			E (P)	5			4						
ML_1.04	**Fundamentals of Computer Science and Networks** (Grundlagen der Informatik)	4	3			1			E (P)	5			4						
ML_1.06	**Introduction into Scientific Working** (Einführung in das wissenschaftliche Arbeiten)	4		4					C (T)	5			4						
ML_2.03	**Statistics** (Statistik)	4	2			2			E (P)	5				4					
ML_2.04	**Object Oriented Programming** (Objektorientierte Programmierung)	4	2			4			E (P)	5				4					
ML_2.06	**Project Management (Key Competencies I)** Projektmanagement (Schlüsselkompetenzen I)	4		4					C (T)	5				4					
ML_3.01	**Financial and Management Accounting** (Buchhaltung und Rechnungswesen)	4	2			2			E (P)	5					4				
ML_3.02	**Production Logistics** (Produktionslogistik)	4	2			2			E (P)	5					4				
ML_3.03	**Decision Making Methods** (Entscheidungsverfahren)	4		4					C (T)	5					4				
ML_3.04	**Data Management** (Datenmanagement)	4	2			2			E (P)	5					4				
ML_3.05	**Linear optimization and operations research** (Lineare Optimierung und Operations Research)	4	2			2			E (P)	5					4				
ML_3.06	**Traffic Planning and Engineering** (Verkehrsplanung und Verkehrstechnik)	4	2			2			E (P)	5					4				
ML_4.01	**Logistics and Traffic Infrastructures** (Logistikanlagen und Verkehrsinfrastrukturen)	4	2			2			E (P)	5						4			
ML_4.02	**Supply Chain Management** (Supply Chain Management)	4	2			2			E (P)	5						4			
ML_4.03	**Identification & Automation** (Identifikation & Automatisierung)	4	2			2			E (P)	5						4			
ML_4.04	**Business Information Systems (Key Competencies II)** Betriebliche Informationssysteme (Schlüsselkompetenzen II)	4		4					C (T)	5						4			
ML_5.01	**Freight Logistics** (Gütertransport)	4	2			2			E (P)	5							4		
ML_5.02	**Legal requirements and international regulations** (Rechtliche Anforderungen und internationale Richtlinien)	4	2			2			E (P)	5							4		
ML_5.03	**Interdisciplinary Project** (Interdisziplinäres Projekt)	6						6	E (P)	10							6		
	Elective courses * Wahlpflichtkurse *	16								20						8	8		
	Semester hours per week (total)	118								150	12	12	12	12	24	24	22	30	30

Column SS8: **ML_6.01: Internship or semester abroad (30 CP; TE: C(T))** (Praxis- oder Auslandssemester)

Column WS9: **ML_7.01: Workshop 1: Research Methods (Forschungsmethoden) (4 SW; 5 CP; type S; TE: C(T)); ML_7.02: Workshop 2: Scientific Writing (Wissenschaftliches Schreiben) (4 SW; 5 CP; type S; TE: C(T)); ML_7.03: Workshop 3: Advanced Seminar (Hauptseminar) (4 SW; 5 CP; type S; TE: C(T)); ML_7.04: Bachelor Thesis (Bachelorarbeit) (12 CP) and Colloquium (Kolloquium) (3 CP)**

150 CP   118 SW   12 SW   60 CP

Credit Points: 210

Allocation				WS1	SS2	WS3	SS4	WS5	SS6	WS7	SS8	WS9
	SW	total	130	12	12	12	12	24	24	22		12
	CP	total	210	15	15	15	15	30	30	30	30	30

Wahlpflichtkatalog **

Code No (Kennnummer)	Elective Courses (Wahlpflichtkurse)	SW (SWS)	CP (CP)	TE (Prü)
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ML_W.06	**Quality and Risk Management** Qualitäts- und Risikomanagement	4	5	E (P)
ML_W.07	**Ambient Intelligent Systems** Ambient Intelligent Systems	4	5	E (P)
ML_W.08	**Geoinformation Systems** Geoinformationssysteme	4	5	E (P)

Abkürzungen

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