Part (B) of the Examination Regulations for the Master's Degree Program Business Informatics at the University of Applied Sciences Emden/Leer in the Faculty of Technology

Based on Section 1 (2) of the General Section for all master's degree programs at the University of Applied Sciences Emden/Leer (Part A MPO) in the version dated June 28, 2022 (University of Applied Sciences Emden/Leer Gazette No. 113, published on July 1, 2022), last amended on January 28, 2025 (University of Applied Sciences Emden/Leer Gazette No. 151/2025), the Faculty Council of Technology adopted the following applicable examination regulations on 16.06.2026, approved by the Presidium on 06.07.2026(University of Applied Sciences Emden/Leer Gazette No. 171/2026):

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§ 1 Scope

This 'Part of the Examination Regulations (Part B)' applies together with Part A (MPO) to the Master's programme 'Business Informatics' within the Faculty of Technology at University of Applied Sciences Emden/Leer.

§ 2 Academic Degree

[1]Upon successful completion of the master's examination, the university awards the academic degree "Master of Science" (M.Sc.). [2]In addition, the university issues a certificate (Appendix 2a Part A MPO), a diploma (Appendix 1a Part A MPO), and a diploma supplement (Appendix 2b). [3]Upon request, the student may receive a translation of the certificate (Appendix 1b Part A MPO) and the transcript (Appendix 2b Part A MPO) in English or the Diploma Supplement in German (Appendix 2a).

§ 3 Program profile and admission requirements

(1) The Business Informatics master's program is a further education master's program that is more application-oriented and can be completed on a full-time or part-time basis.

(2) Admission to the Business Informatics master's program is open to anyone who meets the admission requirements and can provide evidence of this in accordance with the applicable admission and enrollment regulations for the program.

§ 4 Standard Period of Study and Structure

(1) The standard period of study for the Master's program in Business Informatics, including the Master's thesis and colloquium, is three semesters full-time or five semesters part-time.

(2) [1]The program can also be completed on a part-time basis. [2]In part-time study, up to two-thirds of the modules scheduled for a semester can be taken. [3]Repeats of registered and failed examinations are not included in this calculation.

(3) [1]The application for part-time study can be submitted up to one week before re-registration, or up to the time of enrollment for first-year students. [2]This application must specify the number of semesters for which the part-time reduction is to apply. [3]A change from full-time to part-time study after acquiring a maximum of 30 credit points is not permitted.

(4) [1]The continuing education master's program is structured in modules. [2]It comprises compulsory modules and modules from the compulsory elective area. [3]The total credit load for compulsory and elective modules, including the master's thesis and colloquium, is 90 credits. [4] The scope of the modules from the elective area can be freely chosen and amounts to 30 credit points (ECTS).[5] The total credit value of the mandatory modules is

30 credit points (ECTS). [6]In addition, there is the “Master's Thesis with Colloquium” module, worth 30 credit points.

(5) [1]The order of the modules can generally be chosen freely. [2]The prerequisites specified in the module handbook apply to individual courses.

(6) Students who have earned fewer than 210 credit points in their previous studies must earn the remaining credit points by completing additional modules in the degree program or other degree programs in the Department of Engineering in accordance with the admission and enrollment regulations (supplementary studies).

(7) [1]In principle, all examinations and repeat examinations for all examination requirements of the compulsory and compulsory elective modules must be offered within the examination periods specified by the examination board. [2]The first repeat examination should be offered by the start of the courses in the following semester within the deadline set for this purpose, regardless of whether the course is offered in the respective semester.

§ 5 Form and Language of Instruction

(1) All courses and examinations are conducted in English.

(2) [1]The module handbook lists the type, form, and content of the courses. [2]If several types of examination are listed for a module; students must be informed of the decision regarding the type of course by the second class of the semester and this decision must be effective for all participants.

§ 6 Examinations

(1) [1]Appendix 1 lists the modules and courses of the program. [2]The type of examination, form of examination, and scope of the module requirements are specified and published in the module catalog.

(2) [1]The subject matter of the examinations is based on the content of the corresponding module, which is specified in the module handbook. [2]The module handbook is approved by the examination board and published university-wide.

(3) [1]There is no entitlement to the actual offering of all planned elective modules. [2]Similarly, there is no entitlement to such courses being held if there are insufficient numbers of participants.

(4) Credits earned from modules in accordance with § 4 (6) (supplementary studies) are not included in the final grade, but are reported separately in a transcript of records.

(5) [1]The examination board consists of 5 members. [2]It is composed of 3 votes from the group of professors, 1 vote from the group of staff, and 1 vote from the group of students.

§ 7 Mandatory and Elective Modules

(1) [1]In addition to compulsory modules, the curriculum includes elective modules that enable interdisciplinary study in the areas of professionalization, economics, and technology.[2]These can be selected from a list. [3]The list is published university-wide.

(2) [1]The list referred to in paragraph 1 is determined by the examination board, taking into account important developments in society, science, computer science, and technology, and may be updated each semester. [2]A corresponding entry must be made in the module handbook and published.

(3) [1]The examination board may approve additional elective modules upon request. [2]A corresponding entry must be made in the module handbook and published.

(4) [1]The program includes mandatory participation in an individual mentoring program. [2]Details will be published at the beginning of each semester.

§ 8 Admission to the Master's Thesis

(1) Admission to the master's thesis must be applied for in writing to the examination board.

(2) Students who have passed modules worth 60 credit points and participated in the mentoring program shall be admitted to the master's thesis.

(3) The modules of the supplementary studies pursuant to § 4 (6) must have been passed, where applicable, in order to be admitted to the master's thesis.

(4) [1]Admission to the Master's thesis may also be approved by the examination board upon request if a maximum of one required examination or coursework has not yet been passed. [2]The examinations for the uncompleted modules must be able to be taken within one semester without affecting the Master's thesis.

§ 9 Master Thesis with Colloquium

[1]The processing time for the master thesis is 5 months. [2]The processing time may be extended once by a maximum of 1 month upon request to the examination board.

§ 10 Entry into Force

These regulations enter into force on the day after their publication in the official gazette of University of Applied Sciences Emden/Leer.

Anlage 1 Module overview

General abbreviations:

CP	Credit points
SWS	Semester hours per week

Abbreviations used for the form of course:

PL	Examination performance
SL	Study performance
MA	Master Thesis with Colloquium

Abbreviations used for the type of examination:

(DV)	creation and documentation of computer programs
(K) (#)	written exam (processing time in time hours)
(M)	oral examination
(P)	project report
(R)	presentation
(H)	term paper
(PO)	portfolio exam
(SWS)	Semester hours per week
(S)	coursework

In accordance with the General Part of the Master's Examination Regulations (Part A)

Unofficial Translation: Part (B) of the Examination Regulations for the Master's Program Business Informatics

Module and associated lectures	Mandatory/ elective module	Examination form according to §10 MPO A	Semester (recommended semester) for the full-time program	Semester (recommended semester) for the part-time program	Examination performance according to §10 MPO A	Student workload (in hours)		ECTS
						Contact time (lecture hours)	Self-study (hours)	
Technical Modules								
Software Development	P	PL	WS (1/2)	WS (1/2/3/4)	P	60	90	5
Internet of Things	P	PL	SS (1/2)	SS (1/2/3/4)	K2	60	90	5
Business Analytics	WP	PL	SS (1/2)	SS (1/2/3/4)	R	60	90	5
Machine Learning	WP	PL	WS (1/2)	WS (1/2/3/4)	H	60	90	5
Data Management	WP	PL	SS (1/2)	SS (1/2/3/4)	K2	60	90	5
IT Security	WP	PL	WS (1/2)	WS(1/2/3/4)	K2	60	90	5
Project T: Technical Project in Machine Learning	WP	PL	WS (1/2)	WS (1/2/3/4)	P	30	120	5
Current Topic T	WP	PL	SS/WS (1/2)	SS/WS (1/2/3/4)	P	30	120	5
Professionalization Modules								
Introduction to Data Sciences	P	PL	SS (1/2)	SS (1/2/3/4)	H	60	90	5
AI Ethics & Digital Governance	P	PL	SS (1/2)	SS (1/2/3/4)	P	60	90	5
Advanced Project Management	WP	PL	WS (1/2)	WS (1/2/3/4)	K2	60	90	5
Sustainable Innovation Management	WP	PL	WS (1/2)	WS (1/2/3/4)	H	60	90	5
Quality Management	WP	PL	WS (1/2)	WS (1/2/3/4)	H	60	90	5
Leadership & Negotiation	WP	PL	SS (1/2)	SS (1/2/3/4)	H	60	90	5
Business Modules								
Business Administration	P	PL	WS (1/2)	WS (1/2/3/4)	H	60	90	5
Business Process Management	P	PL	SS (1/2)	SS (1/2/3/4)	H	60	90	5
Controlling	WP	PL	WS (1/2)	WS (1/2/3/4)	K2	60	90	5
Business and IT Law	WP	PL	SS (1/2)	SS (1/2/3/4)	H	60	90	5
ERP-Systems ERP-Systems lecture Project Management - Exercise	WP	 PL PL	WS (1/2)	WS (1/2/3/4)	H, K1	60	90	5 (3) (2)
Marketing	WP	PL	SS (1/2)	SS (1/2/3/4)	H	60	90	5
Project B: Business Project in Business Analytics	WP	PL	SS (1/2)	SS (1/2/3/4)	P	30	120	5
Current Topic B	WP	PL	SS/WS (1/2)	SS/WS(1/2/3/4)	P	30	120	5
Master Thesis with Colloquium Master Thesis with Colloquium Introduction to Scientific Working	 P P	 MA SL	SS/WS (3)	SS/WS (5)	S	90	810	30 (28) (2)

Anlage 2

Anlage 2a Diploma Supplement in deutscher Sprache

University of Applied Sciences Emden/Leer

Diploma Supplement

Diese Diploma Supplement-Vorlage wurde von der Europäischen Kommission, dem Europarat und UNESCO/CEPES entwickelt. Das Diploma Supplement soll hinreichende Daten zur Verfügung stellen, die die internationale Transparenz und angemessene akademische und berufliche Anerkennung von Qualifikationen (Urkunden, Zeugnisse, Abschlüsse, Zertifikate etc.) verbessern. Das Diploma Supplement beschreibt Eigenschaften, Stufe, Zusammenhang, Inhalte sowie Art des Abschlusses des Studiums, das von der in der Originalurkunde bezeichneten Person erfolgreich abgeschlossen wurde. Die Originalurkunde muss diesem Diploma Supplement beigefügt werden. Das Diploma Supplement sollte frei sein von jeglichen Werturteilen, Äquivalenzaussagen oder Empfehlungen zur Anerkennung. Es sollte Angaben in allen acht Abschnitten enthalten. Wenn keine Angaben gemacht werden, sollte dies durch eine Begründung erläutert werden.

1. ANGABEN ZUM INHABER/ZUR INHABERIN DER QUALIFIKATION

1.1 Familienname(n) / 1.2 Vorname(n)

……..…

1.3 Geburtsdatum (TT/MM/JJJJ)

……..…

1.4 Matrikelnummer oder Code zur Identifizierung des/der Studierenden (wenn vorhanden)

……..…

2. ANGABEN ZUR QUALIFIKATION

2.1 Bezeichnung der Qualifikation und (wenn vorhanden) verliehener Grad (in der Originalsprache)

Master of Science (M.Sc.)

2.2 Hauptstudienfach oder -fächer für die Qualifikation

Business Informatics

2.3 Name und Status (Typ/Trägerschaft) der Einrichtung, die die Qualifikation verliehen hat (in der Originalsprache)

Hochschule Emden/Leer

Fachbereich Technik am Studienort Emden

Hochschule / staatliche Hochschule

2.4 Name und Status (Typ/Trägerschaft) der Einrichtung (falls nicht mit 2.3 identisch), die den Studiengang durchgeführt hat (in der Originalsprache)

wie 2.3

2.5 Im Unterricht / in der Prüfung verwendete Sprache(n)

Englisch

3. ANGABEN ZU EBENE UND ZEITDAUER DER QUALIFIKATION

3.1 Ebene der Qualifikation

Aufbaustudiengang / zweiter berufsqualifizierender Abschluss: Master

3.2 Offizielle Dauer des Studiums (Regelstudienzeit) in Leistungspunkten und/oder Jahren

1,5 Jahre in Vollzeit bzw. 2,5 Jahre in Teilzeit

3.3 Zugangsvoraussetzung(en)

Bachelorabschluss in einem technischen oder naturwissenschaftlichen Studium und mindestens einjährige Berufserfahrung in Vollzeit. Detaillierte Informationen enthält die Zugangs- und Zulassungsordnung.

4. ANGABEN ZUM INHALT DES STUDIUMS UND ZU DEN ERZIELTEN ERGEBNISSEN

4.1 Studienform

Vollzeitstudium / Teilzeitstudium

4.2 Lernergebnisse des Studiengangs

Der weiterbildende Masterstudiengang Business Informatics verbindet betriebswirtschaftliche und informationstechnologische Inhalte und qualifiziert Fach- und Führungskräfte dafür, an der Schnittstelle von IT und Management zu agieren. Die Studierenden erwerben vertiefte Kenntnisse in IT-Management, Softwareentwicklung, Datenanalyse, Data Science, digitalen Geschäftsmodellen, Künstlicher Intelligenz und Big Data. Sie werden befähigt, betriebswirtschaftliche Fragestellungen mit digitalen Lösungen zu verbinden und Unternehmen in der digitalen Transformation strategisch zu begleiten.

Der praxisorientierte Lehransatz fördert interdisziplinäres, innovationsorientiertes Arbeiten. Die Studierenden entwickeln Analyse-, Design- und Umsetzungskompetenzen für datengetriebene Systeme und sind in der Lage, komplexe Problemstellungen methodisch zu bewerten und tragfähige Lösungen zu gestalten.

Darüber hinaus erwerben sie kommunikative und teamorientierte Fähigkeiten, um technische und betriebswirtschaftliche Perspektiven erfolgreich zu verbinden und in anspruchsvollen Schnittstellenfunktionen zu agieren. Mit dem Abschluss verfügen die Absolventinnen und

Absolventen über ein ingenieurwissenschaftlich geprägtes Profil und sind qualifiziert für leitende Positionen im IT-Management, in der Unternehmensberatung, der Digitalisierung oder der Softwareentwicklung.

4.3 Einzelheiten zum Studiengang, individuell erworbene Leistungspunkte und erzielte Noten

Siehe Modulkatalog (Anlage 1) und Zeugnis (Anlage 2 Teil A MPO) über die Masterprüfung des Studiengangs Business Informatics des Fachbereichs Technik / Abteilung Maschinenbau der Hochschule Emden/Leer.

4.4 Notensystem und, wenn vorhanden, Notenspiegel

Die Hochschule Emden/Leer vergibt die Noten „sehr gut“, „gut“, „befriedigend“, „ausreichend“ und „nicht bestanden“.

Zusätzlich zur Gesamtnote auf dem Zeugnis wird in der Anlage zum Diploma Supplement eine „ECTS-Einstufungstabelle“ gemäß ECTS Users Guide dargestellt. Zu diesem Zweck werden die im jeweiligen Masterstudiengang vergebenen Gesamtnoten der Masterprüfung aus den vergangenen zwei Studienjahren erfasst und ihre zahlenmäßige sowie ihre prozentuale Verteilung auf die Notenstufen in einer ECTS-Einstufungstabelle dargestellt. Liegt innerhalb des Zweijahreszeitraums eine Gesamtzahl von weniger als 100 Absolventinnen oder Absolventen vor, wird die Notenverteilung der gesamten Abteilung zugrunde gelegt.

4.5 Gesamtnote (in Originalsprache)

Gesamtnote: „sehr gut“, „gut“, „befriedigend“, „ausreichend“,

basierend auf dem gewichteten Durchschnitt der Noten in den Prüfungsgebieten.

5. ANGABEN ZUR BERECHTIGUNG DER QUALIFIKATION

5.1 Zugang zu weiterführenden Studien

Der Masterabschluss berechtigt zur Promotion.

5.2 Zugang zu reglementierten Berufen (sofern zutreffend)

Der von der Hochschule Emden/Leer vergebene Masterabschlussberechtigt den Inhaber zum Führen des Akademischen Grades „Master of Science (M.Sc.)“. Er befähigt die Absolventin/den Absolventen zu qualifizierter Arbeit in Unternehmen und Behörden.

Dieser Masterabschluss befähigt die Absolventin/den Absolventen für den höheren Dienst.

6. WEITERE ANGABEN

6.1 Weitere Angaben

Allgemeiner Teil für alle Masterstudiengänge an der Hochschule Emden/Leer (Teil A MPO) in der Fassung vom XX.XX.XXXX (Verkündungsblatt XX/XXXX vom XX.XX.XXXX).

Besonderer Teil (Teil B) der Prüfungsordnung für den Masterstudiengang Business Informatics vom ……. (Verkündungsblatt xx/xxxx vom xx.xx.xxxx).

6.2 Weitere Informationsquellen

- Informationen über die Hochschule, den Fachbereich und den Studiengang: www.hs-emden-leer.de
- Weitere Informationsquellen über das nationale Hochschulsystem, siehe Abschnitt 8.
- Informationen über Studiengang: Hochschule Emden/Leer in Niedersachsen | Hochschule Emden/Leer

7. ZERTIFIZIERUNG DES DIPLOMA SUPPLEMENTS

Dieses Diploma Supplement nimmt Bezug auf folgende Original-Dokumente:

- Urkunde über die Verleihung des Grades vom [Datum]
- Prüfungszeugnis vom [Datum]
- Anlage zum Zeugnis (Transcript of Records) vom [Datum]

Datum der Zertifizierung: …… ……

(Vorsitz der Prüfungskommission)

(Offizieller Stempel/Siegel)

8. ANGABEN ZUM NATIONALEN HOCHSCHULSYSTEM

Die Informationen über das nationale Hochschulsystem auf den folgenden Seiten geben Auskunft über die Qualifikation und den Status der Institution, die sie vergeben hat.

[1] Die Schreibweise in diesem Dokument richtet sich nach den Festlegungen des Rats für deutsche Rechtschreibung. Die Formulierungen sollen explizit auch Personen umfassen, die sich jenseits der binären Geschlechterkategorien positionieren.

Anlage 2b Diploma Supplement in englischer Sprache

University of Applied Sciences Emden/Leer

Diploma Supplement

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s) / 1.2 First name(s)

.....

1.3 Date of birth (dd/mm/yyyy)

…….

1.4 Student identification number or code

…….

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification and (if applicable) title conferred (in original language)

Master of Science (M.Sc.)

2.2 Main field(s) of study for the qualification

Business Informatics

2.3 Name and status of awarding institution (in original language)

Hochschule Emden/Leer

Fachbereich Technik am Studienort Emden

Hochschule / staatliche Hochschule

2.4 Name and status of institution (if different from 2.3) administering studies (in original language)

See 2.3

2.5 Language(s) of instruction/examination

English

3. INFORMATION ON THE LEVEL AND DURATION OF THE QUALIFICATION

3.1 Level of the qualification

Post-graduate master's degree / Second degree with thesis

3.2 Official duration of programme in credits and/or years

1,5 years in full-time; 2,5years in part-time

3.3 Access requirement(s)

Bachelor's degree in a technical or scientific field and at least one year of full-time work experience. Detailed information can be found in the access and admission regulations (Zugangs- und Zulassungsordnung).

4. INFORMATION ON THE PROGRAMME COMPLETED AND THE RESULTS OBTAINED

4.1 Mode of study

Full-time; part-time

4.2 Programme learning outcomes

The master's program in Business Informatics combines business administration and information technology content and qualifies specialists and managers to work at the interface between IT and management. Students acquire in-depth knowledge of IT management, software development, data analysis, data science, digital business models, artificial intelligence, and big data. They are enabled to combine business management issues with digital solutions and to strategically support companies in their digital transformation.

The practice-oriented teaching approach promotes interdisciplinary, innovation-oriented work. Students develop analysis, design, and implementation skills for data-driven systems and are able to methodically evaluate complex problems and design viable solutions.

In addition, they acquire communication and team-oriented skills to successfully combine technical and business perspectives and operate in demanding interface functions. With this degree, graduates have an engineering-oriented profile and are qualified for management positions in IT management, management consulting, digitalization, or software development.

4.3 Programme details, individual credits gained and grades/marks obtained

See Module Catalog (Appendix 1) and Certificate (Appendix 2 Part A) on the Master's Examination of the program Business Informatics of the Faculty of Technology / Department of Mechanical Engineering at the University of Applied Sciences Emden/Leer.

4.4 Grading system and, if available, grade distribution table

The Hochschule Emden/Leer, University of Applied Sciences offers the following grades: very good,
good, satisfactory, sufficient, fail.
Additionally, to the overall grade in the certificate, an “ECTS grading table” according to the ECTS User´s Guide will be shown on the Diploma Supplement. Therefore, in each Master course the grade of the previous two study-years will be recorded and their absolute and relative distribution will
be shown in the ECTS grading table. Should less than 100 students have graduated within the previous two study years, the distribution of the department or faculty will be shown instead.

4.5 Overall classification of the qualification

Gesamtnote: „sehr gut“, „gut“, „befriedigend“, „ausreichend“,
based on weighted average of grades in examination fields.

5. INFORMATION ON FUNCTION OF THE QUALIFICATION

5.1 Access to further study

Qualifies to apply for admission for PhD Programmes, corresponding to local admission requirements.

5.2 Access to a regulated profession (if applicable)

The master's degree awarded by the University of Applied Sciences Emden/Leer entitles the holder to use the academic title “Master of Science (M.Sc.)”. It qualifies graduates for highly skilled work in companies and public authorities.

This master's degree qualifies graduates for higher civil service positions.

6. ADDITIONAL INFORMATION

6.1 Additional information

General part of the examination regulations for all master courses at the Hochschule Emden/Leer (Teil A MPO) of XX.XX.XXXX (announcement No. XX/XXXX of XX.XX.XXXX).

Specific part (B) of the examination regulations for the master course Business Informatics of XX.XX.XXXX. (announcement No. xx/xxxx vom xx.xx.xxxx)

6.2 Further information sources

- On the institution: www.hs-emden-leer.de

- For national information sources see Sect. 8
- The degree programme: University of Applied Sciences Emden/Leer | Hochschule Emden/Leer

7. CERTIFICATION

This Diploma Supplement refers to the following original documents:

- Master Certificate (Masterurkunde), [date of issue
- Final Examination Certificate (Zeugnis über die Masterprüfung), [date of issue]
- Annex to the Final Examination Certificate (Anlage zum Zeugnis), [date of issue]

Certification date: …….. ……

Chairwoman/Chairman Examination Committee
(Official Stamp/Seal)

8. NATIONAL HIGHER EDUCATION SYSTEM

The information on the national higher education system on the following pages provides a context for the qualification and the type of higher education that aw