

**Subject-specific Part (B) of the Examination  
Regulations for the Bachelor Study Programme in  
Nautical Science and Maritime Transport, Faculty  
of Maritime Science at the University of Applied  
Sciences Emden/Leer**

Based on Section 1 Paragraph 2 of the general part of the Bachelor examination regulations at the University of Applied Sciences Emden/Leer dated 2 December 2014 (Official Announcements of 6 January 2015, no. 26/2015, last amended on 28 June 2016 (Announcements no. 39/2016 dated 21/07/2016), the Faculty Council of the Faculty of Maritime Science decreed the following subject-specific part on 25 April 2017 (Announcements no. 49/2017), last amended on 22 February 2022 (Announcements no. 108/2022) dated 6 May 2022).

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### **Section 1 Scope**

This “Subject-specific Part of the Examination Regulations” (Part B) applies in conjunction with Part A of the Examination Regulations for Bachelor Study Programmes to the Bachelor Study Programme in Nautical Science and Maritime Transport, in the Faculty of Maritime Science at the University of Applied Sciences Emden/Leer.

### **Section 2 University degree**

Upon passing the final examination, the university will award the degree of a “Bachelor of Science” (B.Sc.). The university also issues a Bachelor certificate (Appendix 4a) with the date of the final examination certificate (Appendix 3a). The student receives an English translation of the Bachelor certificate (Appendix 4b) and the final examination certificate (Appendix 3b) as well as a diploma supplement (Appendix 5).

### **Section 3 Period of study and structure of the course**

- (1) The standard period of study in which the course can be completed is eight semesters, two of which are practical semesters.
- (2) 240 credit points according to the European Credit Transfer and Accumulation System (ECTS) are obtained upon completion of the course. One credit point corresponds to a student working time of 25 hours.
- (3) The course has a modular structure and comprises 30 mandatory modules amounting to 225 credit points and 3 profile modules (electives) amounting to 15 credit points.
- (4) The course is divided into
  1. the basic course, finishing with the intermediate examination, and
  2. the subject course, finishing with the final examination.

The students choose their course profile when registering for the first examination of a profile module.

- (5) The subject course comprises three profile modules. Students can choose between the profiles:
  - Green Shipping / Ship and Environmental Engineering
  - Maritime Safety and Quality Management
  - Ship Handling

- (6) The recommended chronological sequence of the modules is described in the module catalogue (Appendix 1 to these regulations).

- (7) From 2022, the summer semester each year starts in English, and the winter semester in the German language. The respective language competence can be found in the module descriptions.

#### Section 4 Examinations

- (1) The module examinations consist of examination performances, examination pre-performances and academic performances as stipulated in Section 7 of Part A of the examination regulations for Bachelor courses. Academic performances are not graded, but assessed as “passed” or “failed” only.
- (2) A practice-oriented exercise involves solving a practical task in a way which is typical for the profession. The examination can be taken on a simulator.
- (3) The successful completion of preceding examination or academic performances is a prerequisite for registration for the examination in certain modules. These prerequisites are defined in the detailed module descriptions in the module catalogue (Appendix 1 to these regulations).
- (4) Courses and examinations may be held in English in part or in their entirety. The students shall be informed about this at the beginning of the semester. This option must also be provided for in the module description.
- (5) The following grading system shall be used for the assessment of written examinations in the course in Nautical Science and Maritime Transport:

X Punkte bzw. %	Note
$95 \leq X \leq 100$	1,0
$90 \leq X < 95$	1,3
$85 \leq X < 90$	1,7
$80 \leq X < 85$	2,0
$75 \leq X < 80$	2,3
$70 \leq X < 75$	2,7
$65 \leq X < 70$	3,0
$60 \leq X < 65$	3,3
$55 \leq X < 60$	3,7
$50 \leq X < 55$	4,0
$0 \leq X < 50$	5,0

#### Section 5 Course deadlines

- (1) Until the end of the third semester, students should have obtained 25 credit points of the 41 credit points for the basic course (without the practical semester). If the 25 credit points are not obtained until the end of the fourth semester for reasons beyond the student’s control, a mandatory consultation according to Section 10 Paragraph 6 a of Part A of the examination regulations for Bachelor study programmes will be held.
- (2) For students with a recognised practical semester, the deadline stated in Paragraph (1) will be shortened by one semester.

## Section 6 Recognition and crediting of achievements

### (1) Bilocal course:

- (a) Students can apply to have their documents serving as proof of achievement in the course in Nautical Science and Maritime Traffic at the Faculty of Maritime Sciences and Logistics of Jade University of Applied Sciences recognised by the chairperson of the examination committee without any further examination.
- (b) All documents serving as proof of achievement in the location-specific modules at the Elsfleth campus of Jade University of Applied Sciences will be recognised on request. Recognition and allocation are tasks of the chairperson of the examination committee.
- (c) All documents serving as proof of achievement in the meta-module nautical specialisation of the course in Nautical Science and Maritime Traffic at the Faculty of Maritime Sciences and Logistics of Jade University of Applied Sciences will be recognised by the Faculty of Maritime Sciences at the University of Applied Sciences Emden/Leer upon request. Recognition and allocation are tasks of the chairperson of the examination committee.

### (2) Alternative to module “Profession entrance examination, practice”:

- (a) Students who have been unable to do seagoing service according to the See-BV aboard a seagoing merchant vessel, e.g. for health reasons, and have completed practical semesters in other ways must provide proof of successful completion of a module amounting to 5 CP from the course in Maritime Traffic and Port Operations or the course in Ship and Shipping Line Management instead of the module “Profession entrance examination, practice”. The module is chosen in the context of a consultation with the academic dean.
- (b) In the appendix to the certificate, “did not attend” will be entered under “Profession entrance examination, practice”.

### (3) Crediting of practical semesters:

- (a) Successfully completed professional training as a ship mechanic or successfully completed professional training as an assistant nautical officer replace both practical semesters. Practical training times recognised as equivalent by the Federal Maritime and Hydrographic Agency (BSH) will be counted towards the practical semesters.
- (b) For graduates of a vocational training course in nautical science who have already obtained the unlimited certificate of competency for nautical service, the examination and academic performances of the following modules will be recognised according to Appendix 1 (119 credit points):
  - Basics of Nautical Science
  - Navigation 1
  - Medical Care
  - Meteorology
  - System Monitoring
  - Navigation 2

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- Human Resources Management
- Practical semester 1
- Practical semester 2
- Telecommunications
- Watchkeeping

(c) The foundations for crediting the time served aboard vessels as part of the course are regulated by the current, applicable version of the Framework Practical Semester Regulations.

### **Section 7 Intermediate examination in the Bachelor course**

(1) The basic course comprises the following modules:

- Basics of Nautical Science
- Navigation 1
- Mathematics 1
- Physics
- English
- Meteorology
- Ship Theory
- System Monitoring
- Computer Science
- Mathematics 2
- Business Administration
- Practical semester 1

(2) Students who have successfully completed all modules of the basic course according to Paragraph 1 have passed the intermediate examination in the Bachelor course according to Section 7 Paragraph 1 Clause 1 of the NHG.

(3) The overall grade of the intermediate examination in the Bachelor course is calculated as a mean value of the grades weighted by credit points of the modules completed with an examination performance according to Paragraph 1. An intermediate examination certificate (Appendix 2b) will be issued listing the successfully completed modules according to Paragraph 1.

### **Section 8 Final examination in the Bachelor course**

(1) The final examination in the Bachelor course consists of

1. the modules of the subject course (all modules not parts of the basic course according to Section 7 Paragraph 1);
2. the Bachelor thesis with colloquium.

(2) The overall grade of the final examination in the Bachelor course is calculated as a mean value of the grades weighted by credit points of the modules completed with an examination performance according to Paragraph 1.

### Section 9 Bachelor thesis

- (1) Students who have successfully completed all modules of the course in Nautical Science and Maritime Traffic except the modules “Profession entrance examination, theory”, “Profession entrance examination, practice” and the third module of the respective profile are permitted to start the Bachelor thesis.
- (2) Differing from Paragraph 1, students who still lack no more than ten credit points from the subject course in addition to the three modules listed in Paragraph 1 can request to be permitted by the examination committee to start their Bachelor thesis for special reasons if it is expected that completing the missing performances at a later time will not impair writing the Bachelor thesis.
- (3) The working time for the Bachelor thesis is 3 months. It can be extended by a maximum of two weeks on request.
- (4) The Bachelor thesis shall be submitted in two written copies and as an electronic file in each case. In addition, an abstract on a single DIN A4 page stating the topic, the applied scientific method and the results of the Bachelor thesis shall be submitted.

### Section 10 Profession entrance examination according to See-BV Section 30 (1)

(1) The profession entrance examination according to Section 30 Paragraph 1 of the Ordinance on the Proficiency of Seafarers in Maritime Navigation (*Seeleutebefähigungsverordnung*, abbreviated: SeeBV) is taken as part of the study course in the modules “Profession entrance examination, theory” and “Profession entrance examination, practice”.

(2) The examination in the module “Profession entrance examination, theory” consists of

- a) academic performance of “Basic knowledge of ship management”
- b) examination performance of “Ship handling” and
- c) examination performance of “Cargo handling and storage”
- d) the academic performance of “Managing ship operation” alongside the course, which is passed once all proof of achievement for the modules

- Human Resources Management
- Medical Care
- Maritime English
- Telecommunications
- Safety and Emergency Management

has been passed.

(3) The examination in the module “Profession entrance examination, practice” is a practice-oriented exercise according to Section 8 of the general part of the examination regulations for Bachelor courses. It is organised as an academic performance within the framework of the training on the ship management simulator and assessed as “passed” or “failed”. Academic performance is assessed by two examiners.

- (4) For admission to this examination, students must have passed the intermediate examination and the following modules
- Watchkeeping
  - Navigation 2
  - Safety and Emergency Management
  - Manoeuvring
  - Telecommunications
  - Cargo Care
  - Dangerous Loads
  - Medical Care
  - Loading Techniques
  - Maritime English
  - Human Resources Management
  - Private Economic Law

and have provided complete proof of both practical semesters (according to STCW and See-BV).

### **Section 11 Transcripts and certificates**

- (1) Transcripts and certificates regarding the intermediate examination and the final examination in the Bachelor course will be issued as stipulated in the general part of the Bachelor examination regulations.
- (2) The Bachelor certificate is a prerequisite for issuing the certificate of competency for nautical service.
- (3) Complementing the minimum information according to Section 23 of the general part of the Bachelor examination regulations, the documents serving as proof of achievement with STCW/See-BV relevance obtained in mandatory or elective modules over the course of the course are listed in an appendix to the certificate.

### **Section 12 Transitional provisions**

- (1) These examination regulations shall first apply to the students starting their course in winter semester 2017/18.
- (2) For students who have started the Bachelor course in Nautical Science prior to winter semester 2017/18, the provisions of the examination regulations in the version of 5 January 2016 (Official Announcements of 8 December 2004, No. 37/2004), most recently amended on 5 July 2010 (Announcements No. 9/2010) continue to apply, but only until 31 August 2022 at the latest. With these examination regulations taking effect on 1 September 2019, the examination regulations of 16 November 2004 will no longer apply.
- (3) Students who have started the Bachelor course in Nautical Science prior to winter semester 2017/18 can apply to the examination committee to be examined according to these examination regulations. Already completed examination and academic performances can be recognised as stipulated in Part A of the examination regulations.

Subject-specific Part (B) of the Examination Regulations for the Bachelor Study Programme in Nautical Science and Maritime Transport, Faculty of Maritime Sciences at the University of Applied Sciences Emden/Leer

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The application is irrevocable.

- (4) The module catalogue which was changed with the amendments dated 19 October 2021 (Announcements No. 100/2021) applies to students who began their studies in winter semester 2020/2021 or later.

### **Section 13 Taking effect**

These regulations take effect on the day they are published in the Announcements of the University of Applied Sciences Emden/Leer.



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## Appendix 1: Module catalogue and description

Overview	Credit points
Basic course	60
Subject course	108
Joint subject course	93
Elective subjects (profile)	15
1st practical semester	30
2nd practical semester	30
Bachelor thesis	12
Total:	240

Modules	Form of examination	Type of examination <sup>1</sup>	Credits	Admission requirements
<b>Basic course</b>				
Mathematics 1 (1st semester)	EP	WE2/HA	5	None
English (1st semester)	EP	WE2/HA	5	None
Navigation 1 (1st semester)	EP	WE2/HA	5	None
Physics (1st semester)	EP	WE2/HA	5	None
<b>Basics of Nautical Science</b> (1st semester)				None
Maritime Project	AP	POE	2	
Basics of Nautical Science	AP	WE2/RP	4	
Public Shipping Law	AP	WE1/RP	4	
Meteorology (3rd semester)	EP	WE2/HA	5	None
Ship Theory (3rd semester)	EP	WE2/HA	5	None
Operation of Propulsion and Engineering Systems (3rd semester)	EP	WE2/HA	5	None
Computer Science (3rd semester)	EP	WE2/HA	5	None
Mathematics 2 (3rd semester)	EP	WE2/HA	5	None
Business Administration (3rd semester)	EP	WE2/HA	5	None
<b>Subject course</b>				

<sup>1</sup> According to the choice of the teacher entitled to conduct the examination. Usually a written examination is provided. The type of examination must be the same for all students at the same place of study in the same semester.

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Modules	Form of examination	Type of examination <sup>1</sup>	Credits	Admission requirements
Watchkeeping (4th semester)	EP	WE2/OE	5	1st practical semester
Human Resources Management (4th semester)	EP	WE2/HA	5	None
Medical Care Hospital Internship (4th semester)	EP AP	WE2/HA	5	None
Maritime English (4th semester)	EPP EP	OE/RP WE2/HA	5	None
Business law (in depth study in nautical subjects) (4th semester)	AP	WE2/HA	5	None
Navigation 2 (4th/5th semester)				1st practical semester
Technical Navigation 1 / Radar Technology	EP AP	WE1/ HA POE	5	
Technical navigation 2 ECDIS	EP AP	WE1/ HA POE	5	
Astronavigation	EP	WE2	5	
Dangerous Goods (5th semester)	EP	WE2/RP	5	1st practical semester
Loading techniques (5th semester)	EP	WE2/HA	5	1st practical semester
maritime law (5th semester)	EP	WE2/HA	5	None
Telecommunications (6th semester)	EPP EP	WE2/ RP POE	5	Maritime English 1st practical semester
Manoeuvring (6th semester)	EP	WE2/HA	5	1st practical semester
<b>Safety and Emergency Management</b> (6th semester)				1st practical semester
Safety and Emergency Management	EP	WE3	7	
Public Maritime Law	AP	WE1	3	
Cargo care (in depth study in nautical subjects) (6th semester)	EP	WE2/HA	5	1st practical semester
Practice-oriented examination, theory of ship management, cargo handling and stowing (8th semester)	EPP 2xEP	OE/A WE4	8	See Section 10 BPO

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Practice-oriented examination, practice of ship management, simulator (8th semester)	AP	POE	5	See Section 10 BPO
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Profile 1 Green Shipping / Ship and Environmental Engineering	EP	See module	5
Profile 2 Green Shipping / Ship and Environmental Engineering	EP	See module	5
Profile 3 Green Shipping / Ship and Environmental Engineering	EP	See module	5

Profile 1 Maritime Safety and Quality Management	EP	See module	5
Profile 2 Maritime Safety and Quality Management	EP	See module	5
Profile 3 Maritime Safety and Quality Management	EP	See module	5

Profile 1 Ship Handling	EP	See module	5
Profile 2 Ship Handling	EP	See module	5
Profile 3 Ship Handling	EP	See module	5

1st practical semester	AP		30
2nd practical semester	AP		30
Social credit points	AP		1
Bachelor thesis	EP		12
			<b>240</b>

**Explanations:**

EPP = Examination pre-performance	POE = Practice-oriented exercise
EP = Examination performance	P = Presentation
AP = Academic performance	HA = Home Assignment
PS = Practical semester	OE = Oral examination
WE(#) = Written examination (working time in hours)	

## **Appendix 2a: Zwischenprüfungszeugnis**

Hochschule Emden/Leer

Fachbereich Seefahrt und Maritime Wissenschaften

### **Zeugnis über die Bachelorzwischenprüfung**

Frau/ Herr<sup>1</sup> .....

geboren am ..... in .....

hat die Bachelorvorprüfung im Studiengang **Nautik und Seeverkehr** mit der Gesamtnote <sup>2</sup> .....  
bestanden.

<b>Module</b>	<b>Beurteilungen: <sup>2</sup></b>	<b>Kreditpunkte</b>
Nautische Grundlagen	.....	10
Navigation 1	.....	5
Mathematik 1	.....	5
Physik	.....	5
Englisch	.....	5
Meteorologie	.....	5
Schiffstheorie	.....	5
Systemüberwachung	.....	5
Informatik	.....	5
Mathematik 2	.....	5
Betriebswirtschaftslehre	.....	5
Praxissemester 1	.....	30

Leer, .....

(Siegel der Hochschule)

.....  
Vorsitz Prüfungskommission

<sup>1</sup> Zutreffendes einsetzen

<sup>2</sup> Notenstufen: sehr gut, gut, befriedigend, ausreichend

**Appendix 2b: Intermediate examination certificate (English version)**

University of Applied Sciences Emden/Leer  
Faculty of Maritime Sciences

Translation

**Pre-Examination Certificate**

Ms/Mr<sup>1</sup>

born on ..... in .....

has passed the pre-examination in the course of studies **Nautical Science and Maritime Traffic** with the aggregate grade .....<sup>2</sup>

<b>obligatory modules:</b>	<b>grades<sup>2</sup></b>	<b>Credits (ECTS)</b>
Basics of Nautical Science	.....	10
Navigation 1	.....	5
Mathematics 1	.....	5
Physics	.....	5
English	.....	5
Meteorology	.....	5
Ship Theory	.....	5
Operation of Propulsion and Engineering Systems	.....	5
Computer Science	.....	5
Mathematics 2	.....	5
Business Administration	.....	5
Internship 1	.....	30

Leer, .....

(Seal of University)

.....  
Signature of the Administration

This document is not valid without signature of the administration and the seal of the institution.

<sup>1</sup> Insert as appropriate

<sup>2</sup> Gradation: very good, good, satisfactory, sufficient

**Appendix 3a: Bachelorzeugnis**

Hochschule Emden/Leer

Fachbereich Seefahrt und Maritime Wissenschaften

**Zeugnis über die Bachelorprüfung**

Frau/Herr <sup>2</sup> .....  
 geboren am ..... in .....

hat 240 Kreditpunkte erworben und damit die Bachelorprüfung im Studiengang **Nautik und Seeverkehr** mit der **Gesamtnote**..... <sup>3</sup>. bestanden./ <sup>1</sup>  
 mit Auszeichnung bestanden, **Gesamtnote**..... <sup>2</sup>

Module: **Beurteilung<sup>2</sup>:** **Kreditpunkte**

**Pflichtmodule:**

Wachdienst	.....	5
Personalführung	.....	4
Gesundheitspflege	.....	5
Maritimes Englisch	.....	5
Navigation 2	.....	15
Gefährliche Ladung	.....	5
Ladungstechnik	.....	5
Telekommunikation	.....	5
Manövrieren	.....	5
Notfallmanagement	.....	10
Praxissemester 2	.....	30

Social Creditpoints im Umfang von  
 1 KP wurde erbracht

**Berufseingangsprüfung nach  
 § 30 (1) See-BV**

Berufspraktische Prüfung Theorie	.....	8
Berufspraktische Prüfung Praxis	bestanden	5
.....	.....	5
.....	.....	5
.....	.....	5

**Profil.....<sup>2</sup>**

..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5

**Bachelorarbeit mit Kolloquium** über ..... 12  
 das Thema:

Leer, .....

Das Bachelorzeugnis gilt nur in Verbindung mit dem Zwischenprüfungszeugnis.

<sup>2</sup> Zutreffendes einsetzen

<sup>3</sup> Notenstufen: sehr gut, gut, befriedigend, ausreichend

**Appendix 3b: Final Examination Certificate (English version)**

University of Applied Sciences Emden/Leer

Faculty of Maritime Sciences

**Final Examination Certificate  
Bachelor of Science**

Translation

Ms./Mr. <sup>2</sup> .....

born on ..... in .....

has acquired a total of 240 credits and passed the final examination in the course of studies **Nautical Science and Maritime Traffic** with the aggregate grade ..... <sup>2</sup>,

with honours, aggregate grade ..... <sup>2</sup>,

Modules: **Grades<sup>3</sup>:** **Credits**

**Obligatory Modules:**

Watchkeeping	.....	5
Human Resource Management	.....	4
Medical Care	.....	5
Maritime English	.....	5
Navigation 2	.....	15
Dangerous Goods	.....	5
Cargo Operation and Planning	.....	5
Telecommunications	.....	5
Manoeuvring	.....	5
Safety and Emergency Management	.....	10
Internship 2	.....	30

**Profession Entrance Examination  
according § 30 (1) See-BV**

Practice Oriented Examination (theory) ..... 8

Practice Oriented Examination (practice) passed..... 5

**In Depth Study in Nautical Subjects:**

..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5

**Profile:**

..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5
..... <sup>2</sup>	.....	5

**Bachelor Thesis with Colloquium on the Topic:** ..... 12

Leer, .....

(Seal of University)

\_\_\_\_\_  
Signature of the Administration

The Final Examination Certificate is valid only in combination with the Pre-Examination Certificate.  
This document is not valid without signature of the administration and the seal of the institution.



## Appendix 4a: Bachelorurkunde

Hochschule Emden/Leer

Fachbereich Seefahrt und Maritime Wissenschaften

### Bachelorurkunde

Die Hochschule Emden/Leer,

Fachbereich Seefahrt und Maritime Wissenschaften, verleiht mit dieser Urkunde

Frau/Herrn <sup>1</sup> .....

geboren am ..... in .....

den Hochschulgrad

### **Bachelor of Science**

**(abgekürzt: B.Sc.)**

nachdem sie/er<sup>1</sup> die Bachelorprüfung im Studiengang Nautik und Seeverkehr bestanden und insgesamt 240 Kreditpunkte erhalten hat.

Leer, .....

\_\_\_\_\_  
Leitung des Fachbereichs

(Siegel der Hochschule)

\_\_\_\_\_  
Vorsitz der Prüfungskommission

<sup>1</sup> Zutreffendes einsetzen.

**Appendix 4b: Bachelor Certificate (English version)**

University of Applied Sciences Emden/Leer

Faculty of Maritime Sciences

**Bachelor Degree**

With this certificate the University of Applied Sciences Emden/Leer, Faculty of Maritime Sciences, confers

upon Ms./Mr.<sup>1</sup> .....  
born on ..... in .....

the academic degree of

**Bachelor of Science**

**(abbreviated: B.Sc.)**

as she/he<sup>1</sup> passed the final examination in the course of studies of **Nautical Science and Maritime Traffic** and acquired a total of 240 credits (ECTS).

(Seal of University)

Leer, .....  
(Date)

.....  
Signature of the Administration

This document is not valid without signature of the administration and the seal of the institution.

<sup>1</sup> Insert as appropriate.

## **Appendix 5: Diploma Supplement (englisch)**

### **Diploma Supplement University of Applied Sciences Emden / Leer**

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 certificate to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information should be provided in all eight sections. 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 (if applicable)**

#### **2. INFORMATION IDENTIFYING THE QUALIFICATION**

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

Nautical Science and Maritime Traffic, Nautik und Seeverkehr

Branches of study:

Green Shipping / Ship and Environmental Engineering, Greenshipping / Schiffs- und Umwelttechnik

Maritime Safety and Quality Management, Maritimes Sicherheits- und Qualitätsmanagement

Shiphandling, Ship Handling

Bachelor of Science, B.Sc.

**2.2 Main field(s) of study for the qualification**

Integrated studies comprising subjects in Nautical Science and Maritime Traffic (navigation, cargo handling and stowage, ship operation), Maritime Economy and Maritime Law

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

Hochschule Emden/Leer

Fachbereich Seefahrt

University of Applied Sciences / state institution

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

Same

**2.5 Language(s) of instruction/examination**

German (partly English)

### **3. INFORMATION ON THE LEVEL AND DURATION OF THE QUALIFICATION**

#### **3.1 Level of the qualification**

First degree (4 years) with thesis

#### **3.2 Official duration of programme in credits and/or years**

4 years

#### **3.3 Access requirement(s)**

General/ specialized higher education entrance qualification (Hochschulzugangsberechtigung), see 8.7 for foreign equivalents

### **4. INFORMATION ON THE PROGRAMME COMPLETED AND THE RESULTS OBTAINED**

#### **4.1 Mode of study**

Full-time

#### **4.2 Programme learning outcomes**

The qualification aims in the study programme Nautical Science and Maritime Transport are drawn up in such a way that as well as receiving the university degree Bachelor of Science, at the end of their studies, students are also awarded the certificate of competence to work as a nautical officer of the watch without limitations for seagoing vessels. The graduates then have broadly based and interdisciplinary knowledge and understanding of the academic interrelationships of the nautical/maritime topics. A binding minimum standard for training seafarers is prescribed by the IMO (International Maritime Organization) and also transferred into German law. Part of the specialist, application, method and social competences are therefore derived from the STCW code in its current applicable version. For the most part, these cover the qualification aims for professional employment.

Academic competence:

Academic competences are taught in the modules in the basic course as well as in the modules in the main course and the elective subjects for more in-depth study.

In the individual subject-specific modules, the subject-related and academic requirements are formulated with the aspects: knowledge and understanding (dissemination of knowledge, deepening of knowledge and understanding of knowledge), use, application and generation of knowledge (use and transfer, academic innovation), communication and cooperation as well as academic self-image/personality, and during the Bachelor thesis, the students have the opportunity to demonstrate their subject-related and academic competence.

Competence for taking up professional employment:

The graduates have analytical and problem solving skills including the ability to think in an interconnected way – the use, application and generation of knowledge – in the following areas of competence:

- Ship management
- Planning and carrying out a journey and determining and evaluating the position,
- Undertaking a safe navigational watch,
- Using radar equipment and ARPA systems to maintain the safety of the sea journey,
- Using radar equipment and sea charting and information systems (ECDIS) to maintain the safety of the sea journey,
- Appropriate response to emergency situations and emergency signals at sea,

- Using the IMO standard phrases for maritime shipping as well as the use of written and spoken English,
- Sending and receiving messages via visual signals,
- Ship manoeuvring and understanding basic hydrodynamic relationships,
- Understanding and evaluating weather forecasts and oceanographic conditions
- Cargo handling and storage
- Monitoring the loading, stowing, securing and clearing as well as looking after cargo during the journey,
- Assessing and evaluating storage spaces, hatch covers and ballast tanks as well as reporting defects and damage to these and the cargo,
- Knowledge of the regulations governing the transport of dangerous goods,
- Managing shipping operation and welfare of the people on board
- Knowledge of the contamination prevention regulations and ensuring that these are adhered to,
- Maintaining and evaluating the seaworthiness of the ship,
- Planning and managing fire defence,
- Using rescue devices,
- Using medical first aid on board,
- Monitoring legal regulations,
- Understanding and applying the fundamentals of ship construction as well as the theories and factors which influence trim and stability, and evaluating these,
- Knowledge of public maritime law in the shape of international agreements and treaties,
- Radio communication
- Sending and receiving messages using GMDSS systems

The qualification aims are taught in a way which corresponds to the level of responsibility (management level and operating level). In the module descriptions, reference is made to the corresponding competence which the module includes in accordance with STCW.

Competence for social involvement and personal development:

Learning, social and key competences are integrated into each module to a certain extent. The social credit points must be highlighted here in particular, with reference to the key qualifications and the qualification aims related to personal development. The students are able to take up management positions in shipping operations. Intercultural aspects are also integrated here. Teamworking skills are taught. Based on the distinct international make-up of the shipping sector, an important concern of the faculty is to teach its students how to address different cultures, as well as good English language skills (seminars, elective subjects). The students are instructed in and enabled to have more professional vocational and social action in the future – with an eye on an international environment – and to reflect critically on their own actions.

The Bachelor study programme Nautical Science and Maritime Transport prepares students for nautical management positions on board ships and for management positions in the maritime economy and administration.

The qualifications and learning contents taught during the study programme go well beyond the nautical competences required by STCW and, thanks to the selection of a study profile, intensively prepare the students for later employment in the nautical secondary labour market.

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

See “Zeugnis über die Bachelorprüfung” (Final Examination Certificate) for subjects offered in the final examination (written and oral) and topic of thesis, including evaluations.

For further details see ECTS-Information of Fachbereich Seefahrt und Maritime Wissenschaften which includes the syllabus.

#### **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, pass, 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 Bachelor 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 (in original language)**

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

### **5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

#### **5.1 Access to further study**

It gives access to the master program Maritime Operations M.Sc. as a joint degree program with the Western Norway University of Applied Sciences. As well as to other maritime oriented master programs.

#### **5.2 Access to a regulated profession (if applicable)**

It gives the right to receive the certificate navigational watchkeeping officer (NWO) at the “Bundesamt für Seeschifffahrt und Hydrographie”

### **6. ADDITIONAL INFORMATION**

#### **6.1 Additional information**

General part of the examination regulations for all Bachelor courses at the University of Applied Sciences Emden/Leer (Part A of the examination regulations for Bachelor courses) of 17 December 2014, Announcement No. 26/2015, last modification 30.08.2017<sup>1</sup>, announcement No. 52/2017<sup>1</sup>.

Specific part (B) of the examination regulations for the Bachelor course in Nautical Science and Maritime Traffic of....., announcement No. ...., last modification.....<sup>1</sup>, announcement No .....<sup>1</sup>.

Insert as appropriate.

## 6.2 Further information sources

- On the institution: [www.hs-emden-leer.de](http://www.hs-emden-leer.de)
- On the program: [www.hs-emden-leer.de/fachbereiche/seefahrt.html](http://www.hs-emden-leer.de/fachbereiche/seefahrt.html)
- The degree program: [www.hs-emden-leer.de/fachbereiche/seefahrt.html](http://www.hs-emden-leer.de/fachbereiche/seefahrt.html)
- For national information sources see Sect. 8

## 7. CERTIFICATION

This Diploma Supplement refers to the following original documents:

- Bachelor Certificate (Bachelorurkunde), date of issue
- Final Examination Certificate (Zeugnis über die Bachelorprüfung), 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 awarded it.

<sup>1</sup> Insert as appropriate