

**Prüfungs- und Studienordnung (Examination and Study Regulations) for the
Master's Degree Course Operation and Management of Maritime Systems
at Hochschule Wismar
University of Applied Sciences: Technology, Business and Design**

Of 20 July 2018

Based on § 2(1) in conjunction with § 13(5), § 38(1) and § 39(1) of the *Landeshochschulgesetz* (hereinafter State Higher Education Law), in the version announced on 25 January 2011 (GVOBl. M-V p. 18), last amended by Article 3 of the law of 11 July 2016 (GVOBl. M-V p. 550, 557), and § 1(2) of the *Rahmenprüfungsordnung* (hereinafter Framework Examination Regulations) of Hochschule Wismar, University of Applied Sciences: Technology, Business and Design (hereinafter UAS Wismar) of 19 October 2012 (Mitt.bl. BM M-V p. 1159), last amended by the Third Amending Statutes of the Framework Examination Regulations of UAS Wismar of 17 April 2015 (special edition of the University Gazette of 30 July 2015), UAS Wismar has hereby passed the following *Prüfungs- und Studienordnung* (hereinafter Examination and Study Regulations) as statute:

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1. General Provisions

§ 1

Scope of Application

(§ 1 Framework Examination Regulations)

These Examination and Study Regulations apply to the Master's Degree Course Operation and Management of Maritime Systems at UAS Wismar. UAS Wismar's Framework Examination Regulations shall be applied directly for all matters not covered by these Examination and Study Regulations.

2. General Information

§ 2

Standard Length of Study

(§ 2 Framework Examination Regulations)

The standard period of study is three semesters. This covers the subject semesters for theory and the examinations, including the master's dissertation.

§ 3

Degree

(§ 3 Framework Examination Regulations)

Studies in the postgraduate master's degree course Operation and Management of Maritime Systems are completed with the degree 'Master of Science (M.Sc.)'.

§ 4

Admission Requirements

(§ 4 Framework Examination Regulations)

(1) Admission to the master's degree course Operation and Management of Maritime Systems requires a successfully completed undergraduate degree (bachelor's, Diplom or equivalent) from a German or foreign university in a course related to business or engineering sciences and with a total of at least 210 credits. If applicants are unable to prove the required 210 credits, a maximum of 30 credits must be gained independently by attending courses and passing the corresponding module examinations at UAS Wismar prior to the start of studies or during their studies. This will be decided upon by the Examination Board on request, which will also determine the modules to be chosen. The credits lacking for admission to the course must be produced as a prerequisite for admitting a student to the master's dissertation.

(2) The degree certificate that must be presented as proof of the qualification must

have an overall mark of at least 2,5. If this overall mark was not achieved, the dissertation must have been passed with a mark of 2,0 or better. Admission may not be granted if the overall mark is 3,0 or worse.

(3) Students whose native language is not German must provide evidence of sufficient German language skills, by passing a DSH examination or equivalent examination with a mark of at least sufficient.

3. Examinations

§ 5

Examination Board

(§ 5 Framework Examination Regulations)

(1) The Faculty of Engineering's Department of Maritime Studies shall form an examination board, which consists of seven members, including four professors, one member of academic staff and two students. The chairperson and his/her deputy must be professors.

(2) The examination board has a quorum if at least two professors and at least two further members with voting rights are present. Decisions are passed by means of simple majority. If there is a tie of votes, the chairperson's vote, or, in his/her absence, the vote of the deputy chairperson, will be decisive. The student members of the examination board shall be excluded from the vote in matters concerning examination decisions, in particular with regard to passes or fails and the recognition of study periods, coursework and credits. The student members shall not take part in the consultations and decision making with regard to matters concerning the determination of examination tasks or related to his/her own examinations.

(3) The examination board delegates the execution of its tasks to its chairperson for the normal cases as stipulated in the Framework Examination Regulations until being revoked, apart from decisions about discrepancies.

§ 6

Types of Marked Coursework

(§ 6 Framework Examination Regulations)

(1) The assessment components must be certified by the teachers of the respective course and marked according to the list of marks as stipulated in § 13. If the work is marked by multiple examiners, the examiners shall come to a mutual agreement on the marking scheme for the marked coursework in accordance with the list of marks as stipulated in § 13.

(2) The students shall be informed about the kind and length of examinations and any other possible assessment components at the first class of the respective course. The examiner's choice of the kind and scope of marked coursework will be the same for all candidates and must be confirmed by the Examination Board prior to announcement. The following types of marked coursework can be demanded of the student:

1. written assessments in the form of written examinations and other written assignments,
2. oral examinations,
3. alternative types of examination.

§ 7
Oral Examinations
(§ 8 Framework Examination Regulations)

Oral examinations will be held in front of at least two examiners or in front of one examiner in the presence of a knowledgeable observer, either as a group examination or individual examination.

§ 8
Alternative Types of Examination
(§ 9 Framework Examination Regulations)

(1) Alternative types of examination can be:

- Presenting and demonstrating computer programmes or simulations
- Presenting and discussing project work, coursework essays or presentations

(2) Alternative types of examination can also take place as assessments during term time, outside of the examination period stipulated by the University. They can be held as group or individual examinations. The length of an alternative type of examination is a maximum of 45 minutes.

§ 9
Assessment Components
(§ 10 Framework Examination Regulations)

(1) Admission to the module examination can be made subject to the provision of proof of certain academic achievements obtained for an assessment component. This shall be determined by the teacher who is responsible for the module. The required assessment components can be found in the examination schedule (Appendix 1).

(2) Assessment components can be:

- Holding presentations
- Creating computer programmes
- Writing coursework essays
- Completing project work
- Tests during the semester

(3) A presentation must be held as part of the course's teaching/learning. It comprises the independent systematic exploration of a topic or topic area of the respective course, using the corresponding literature. Following a short presentation of 15 to 30 minutes, the topic shall be discussed in detail.

(4) Project work usually serves to prove the students' ability to work individually or in teams to develop concepts, come up with solutions and present results. The candidates should prove that they can define goals for more complex tasks and develop solutions and concepts. The writing-up period for project work usually covers a period of a maximum of six months. If project work has been submitted as team work, the individual contribution of the candidate must be clearly recognisable.

(5) The deadline for submitting the finished assessment components shall be announced by the teacher who is responsible for the module.

- (6) A module examination should not usually be made up of more than three assessment components.
- (7) The teacher who is responsible for the module may make the participation for certain courses, such as simulation practicals, laboratory experiments, interim tests or excursions compulsory. In these cases, successful participation shall constitute an admission requirement for the module examination.
- (8) Compulsory regular attendance of the students is required for types of teaching and learning that require the regular active participation of the students to achieve the learning objective. In this case, regular attendance of these lectures will be attested by the relevant lecturer and shall constitute an admission requirement for the module examination.

§ 10

Module Examinations and Module Marks (§ 11 Framework Examination Regulations)

- (1) Each module examination can be made up of one or more pieces of marked coursework. The students shall be informed about the kind(s) of marked coursework that are required for the module examination at the first class of the respective course. The module examinations are listed in Appendix 1.
- (2) A module examination is successfully completed if it is assessed as “sufficient” (4,0) or higher. Module examinations consisting of multiple examinations are successfully completed if each individual examination is assessed as “sufficient” (4,0) or higher.
- (3) If the module examination is composed of multiple examinations, the individual marks are taken into account in equal proportions when calculating the overall module mark. Thus, the overall mark for the module shall be calculated from the average (arithmetic mean) of all individual marks received. The overall mark for the module shall be rounded to one decimal place.
- (4) All modules listed in the examination schedule (Appendix 1) will be marked for the Master’s degree.
- (5) Admission to a module examination will only be granted if the candidate is enrolled for the master’s degree course at UAS Wismar that is the subject of these regulations.

§ 11

Taking Module Examinations (§ 12 Framework Examination Regulations)

- (1) The Examination Board determines examination dates at least six weeks prior to the start of the examination period of the current semester and announces them on notice boards.
- (2) Students must register for a module examination at the Examination Office prior to the registration deadline set by the Examination Office, which must be at least four weeks before the start of the examination period. Registration can be withdrawn up to one week prior to the respective examination date by submitting a written or electronic declaration to the Examination Office without having to provide any specific details.
- (3) Only candidates who have registered for the respective module examination prior

to the end of the registration deadline have a right to the assessment of their examination.

§ 12
Recognition of Coursework and Examinations
(§ 13 Framework Examination Regulations)

The Examination Board is responsible for the crediting of study periods, credits and marked coursework. The responsible module teachers must be consulted prior to granting recognition. Recognition may be granted subject to conditions. Students are not entitled to have their work recognised.

§ 13
Evaluation of the Individual Pieces of Marked Coursework,
Calculation of Marks
(§ 16 Framework Examination Regulations)

All pieces of marked coursework shall be marked as follows:

1,0; 1,3= very good	=excellent work;
1,7; 2,0; 2,3= good	=work that is well above the average requirements;
2,7; 3,0; 3,3= satisfactory	=work that corresponds to the average requirements,
3,7; 4,0= sufficient	= work that fulfils the requirements despite its deficiencies,
5,0	= not sufficient =work that does not fulfil the requirements due to serious deficiencies.

§ 14
Regular Examination Dates and Deadlines
(§ 17 Framework Examination Regulations)

(1) In accordance with § 11, candidates must register for examinations. Regular examination dates are the module examinations specified according to the examination schedule (Appendix 1) for each semester.

(2) If students exceed the regular examination dates by more than two semesters, or if they do not sit an examination they registered for, the module examination will be counted as not having been completed successfully and therefore failed.

§ 15
Resitting Examinations
(§ 19 Framework Examination Regulations)

A failed module examination can only be retaken once.

4. Master's Dissertation and Colloquium

§ 16

Master's Dissertation

(§ 20 Framework Examination Regulations)

- (1) The master's dissertation consists of the master's dissertation, submitted in writing, and the corresponding colloquium.
- (2) Only candidates who have gained at least 51 credits from the module examinations specified in the examination schedule (Appendix 1) will be granted access to the master's dissertation.
- (3) The first examiner for the master's dissertation must be a professor at UAS Wismar.
- (4) Approval must be gained from the first supervisor if the master's dissertation is to be completed at an institution outside of UAS Wismar.
- (5) The student may make suggestions for the supervisors and the topic of the master's dissertation. However, this does not grant a right of legal claim for the suggestion to be met. The topic can only be returned once and if the request for this has been submitted within the first two weeks of the writing-up period. The reason given for returning the topic must be made credible and announced immediately in writing to the Examination Board. The Examination Board will decide on the request after consulting the respective supervisors.
- (6) The writing-up period for the master's dissertation lasts 19 Weeks. In exceptional cases, if there is a justified reason, the Examination Board can extend the writing-up period by up to four weeks. The request must be addressed to the chairperson of the Examination Board and submitted in writing to the Examination Office.
- (7) The master's dissertation must be written either in German or English.
- (8) The master's dissertation must be submitted to UAS Wismar's Examination Office or to the office responsible for the degree course at the Department of Maritime Studies prior to the deadline and in four written copies, with a copy of each on an electronic data carrier (CD or DVD). The final deadline for submitting the dissertation will be determined by the Examination Office when admission has been granted successfully. A dissertation that is submitted after the end of the deadline shall receive the mark 'insufficient' (5,0).
- (9) The submission deadline will be recorded by the office responsible for the degree course at the Department of Maritime Studies, on behalf of the Examination Office.
- (10) The master's dissertation shall be evaluated by every examiner, in accordance with § 16, and reasons for this evaluation shall be given individually in writing (assessment). If the marks of the two supervisors are not identical, the mark for the master's dissertation will be created from the arithmetic mean of the individual marks. The marking procedure shall not take longer than four weeks.
- (11) The mark awarded for the master's dissertation will be composed of the weighted average taken from the marks for the master's dissertation and the marks for the colloquium. The mark for the master's dissertation will be weighted with 75 % of the overall mark of the master's dissertation. The mark for the colloquium will be weighted with 25 % of the overall mark for the master's dissertation. The overall mark for the master's dissertation shall be rounded to one decimal place.

(12) The candidate shall only be informed of the marks for the master's dissertation after the colloquium has been passed with "sufficient" (4,0) or better.

§ 17

Master's Dissertation Colloquium (§ 21 Framework Examination Regulations)

(1) Only candidates who have gained at least 60 credits from the module examinations stipulated in the examination schedule (Appendix 1) will be granted admission to the master's colloquium.

(2) The mark for the colloquium is awarded following agreement of the two examiners, in accordance with § 16 (1).

§ 18

Passing the Master's Examination and Calculation of the Overall Mark (§ 22 Framework Examination Regulations)

(1) The overall mark shall be composed of the marks for all compulsory modules and two of the compulsory elective modules (in accordance with the examination schedule, Appendix 1).

(2) The overall mark is calculated from the weighted average of the marks for all of the modules that are included in the overall mark. Weighting shall be applied according to the number of credits for the associated modules.

§ 19

Transcript of Records, Diploma Supplement (§ 24 Framework Examination Regulations)

If the overall mark comes to between 1,0 and 1,2, the final assessment of "passed with distinction" will be awarded and recorded on the master's certificate.

5. Study Regulations

§ 20

Purpose of the Study Regulations

The Study Regulations provide students with information and advice to enable them to organise their studies sensibly. At the same time, they are the basis for the subject-specific advice that is provided to the students during their studies and for the Department of Maritime Studies' planning of the courses on offer.

§ 21

Study Goals

The master's degree aims to deepen students' knowledge of the basic subjects and to expand knowledge of additional subjects. It is possible to specialise in a specific discipline by choosing from several compulsory elective modules. The goal is to produce graduates who:

- have a broad fundamental knowledge based on academic principles and the expertise required to transfer this knowledge to professional practice

- have the ability to think analytically in a networked way, and to act independently and methodically
- are capable of cooperating with other specialists and maritime workers, seeking solutions through critical discourse, working in a team and presenting their work convincingly to the outside world
- are capable of acting in a way that is socially responsible and conscious of the environmental impact.

The course contents correspond with the respective current state of technology and science. They are based on the principle of harmony between research and teaching.

This master's degree makes it possible to acquire the skills required to make use of correlations in the subjects studied and to apply academic methods and results. The student is required to carry out independent academic work. The degree also aims to teach key qualifications, develop intellectual and social competencies, and foster personal development. At the end of their studies, students should have an overview of the subject's scope and be in a position to independently analyse complex problems in their context, to develop evaluations and solutions based on academic principles and to put them into practice in a social environment.

Those who graduate from this master's degree course have acquired in-depth knowledge of engineering and commerce and therefore have a comprehensive understanding of theories, models and methods used in the maritime field. The master's graduates have an overview of current research and development topics in their specialist field and are capable of challenging new discoveries in their area of specialisation.

They have the ability to develop independent solutions to engineering problems and innovative new methods based on academic foundations, and to evaluate these solutions and methods in a commercial context. Furthermore, they are also capable of instructing colleagues in an expert manner when new tasks are initiated.

Graduates of this master's degree course should have the skills required to carry out challenging engineering activities during the planning, organisation and implementation stages of maritime projects, through in-depth, academic and interdisciplinary knowledge, abilities and methods. In doing so, they should also be able to develop and implement new technical solutions on an academic basis, taking into account both commercial and legal aspects. Graduates should also recognise specialist interdisciplinary correlations and be capable of working independently. This is characterised by their ability to think abstractly and analytically, in an interconnected way that goes beyond the individual case. The master's graduates should be capable of independently adapting to new domains. They are not only able to work well in a team, but also to lead and manage their team. This also applies to the field of academia.

Graduates of this degree course can take on management roles in the maritime industry and service, as well as maritime supply industry. The master's degree provides graduates who would like to pursue a career in maritime research or teaching the qualifications that are required for starting a doctorate. Their potential areas of work range from shipping companies and port operations, maritime services, shipyards, suppliers (including offshore supplies) and logistics companies to classification societies, public authorities and senior roles in the civil service. Future fields of activity range from managerial tasks to preparing strategic decisions or specialised operational service.

§ 22 Start of Studies

The start of studies is stipulated in the corresponding provisions of the *Immatrikulationsordnung* (hereinafter Enrolment Regulations). As a general rule, new students shall be enrolled only in the winter semester.

§ 23

Degree Structure

- (1) The degree course is split into modules. Modules are self-contained units of teaching, which are successfully completed by passing a module examination. A module examination must be passed in order for credits to be allocated in accordance with the European Credit Transfer System (ECTS).
- (2) Modules can be combined to create joint courses. This will be decided upon by the respective examination board. It is only possible to take both of the combined modules.
- (3) The number of contact hours per week, the individual modules and the kind of course provided in individual semesters can be found in the Course Schedule (Appendix 2).
- (4) One of the semesters can be studied at a university abroad which has signed a partnership agreement with UAS Wismar. The recognition of modules that are to be completed abroad must be agreed with the Examination Board prior to starting the period of study abroad.

§ 24

Contents of the Degree

- (1) The courses provided in the master's degree course Operation and Management of Maritime Systems cover the compulsory and compulsory elective modules listed in Appendix 2. The modules are described in more detail in the Module Handbook.
- (2) Two modules must be chosen from the compulsory elective modules WPM 01, 02, 03 or 04.
- (3) As a result of the internationalisation of the degree courses, modules might be held in English.

§ 25

Types of Teaching and Learning

- (1) Types of course can be:
 - Lectures: Syllabus taught in the form of lectures,
 - Seminar tuition: Syllabus taught in the form of lectures and seminars,
 - Seminar: Treatment of specific areas using discussions, in some cases with presentations held by the participants,
 - Practical: Applying and consolidating the course contents by way of theoretical and practical application,
 - Simulator practical: Syllabus taught via simulator exercises
 - Laboratory practicals in the machine and system laboratory
- (2) The Course Schedule (Appendix 2) stipulates which kinds of course the individual modules are made up of.
- (3) Courses can also be provided as block courses.

§ 26
Excursions

Field trips can constitute a part of the module teaching in the master's degree course Operation and Management of Maritime Systems. There is no legal right to field trips.

§ 27
Study Advice

(1) All students can receive general study advice from the Student and Academic Affairs Division at UAS Wismar.

(2) As part of general study advice, the University also provides information about the postgraduate study opportunities provided by UAS Wismar.

(3) Advice for individual matters regarding study organisation, including questions related to examination matters is provided by the responsible department. Students should also contact subject advisors, in particular, at the beginning of studies, if examinations have been failed and if they wish to change degree course. Examination-related questions and questions concerning the Enrolment Regulations shall be answered by the Student and Academic Affairs Division.

6. Final Provisions

§ 28
Entry into Force

These Examination and Study Regulations enter into force on the day after their publication in UAS Wismar's university gazette. They shall only apply to students enrolled from winter semester 2018/2019 onwards.

Issued on the basis of the resolution made by the Academic Senate of UAS Wismar of 19 July 2018 and following approval from the Rector of 20 July 2018.

Wismar, on the 20 July 2018

The Rector
of Hochschule Wismar
University of Applied Sciences: Technology, Business and Design
Prof. Dr. Bodo Wiegand-Hoffmeister

Appendix 1: Examination Schedule

Module		Semester 1			CR	Semester 2		CR	Semester 3		Σ CR
		Examination				Examination			Examination		
		AC				AC			AC		
CM 01	Safety, Security and Ecology in Maritime Systems	OE30 or AE	OE30 or AE	AE	10					10	
		AC									
CM 02	Technical Aspects and Simulation of Maritime Systems					WE180 or OE30 or AE	9			9	
						2 x PW					
CM 03	Human Resources/ Organisational Management	WE120 or OE20 or AE			6					6	
		AC									
CM 04	Maritime Business Communication				5	WE120 or OE20 or AE	4			9	
						AC					
CM 05	Maritime Management/ Port Operations	AE	OE20 or AE		9					9	
		AC									
CM 06	Management and Business Simulation					WE120 or OE20 or AE	5			5	
						AC					
CEM 01	Maritime Law					WE120 or OE30 or AE	6			6	
						AC					
CEM 02	Integrated Manoeuvring/ Propulsion and Navigation Systems	OE20 or AE		OE20 or AE			6			6	
		AC									
CEM 03	Operation, Monitoring & Maintenance of Technical Systems					WE120 or OE30 or AE	6			6	
						AC					
CEM 04	Operational & Strategic Management in Shipbuilding					WE120 or OE30 or AE	6			6	
						AC					
CM 07	Master's Dissertation incl. Colloquium							See §20, §21, §22, §23 of these Study and Examination Regulations	30	30	
Σ Credits					30		30*		30	90	

The English translation of the *Prüfungs- und Studienordnung für den Master-Studiengang Operation and Management of Maritime Systems der Hochschule Wismar University of Applied Sciences: Technology, Business and Design* is intended solely as a convenience to non-German-reading students/members of the university. Only the German text published in Hochschule Wismar's university gazette on the DD MONTH YEAR is legally binding. In the event of any conflict between the English and German text, its structure, meaning or interpretation, the German text, its structure, meaning or interpretation shall prevail.

Abbreviations:

CR = Credits

CA = Compulsory Attendance

CM = Compulsory Module

WE = Written Examination

CEM = Compulsory Elective Module

OE = Oral Examination

RAT = Regular Attendance

AE = Alternative Examination

The numbers after OE and WE are an indication of the length of examination in minutes.

AC = Assessment Component (According to

§ 9, assessment components can be:

- Pre = Presentation,
- ComP = Computer Programme,
- CE = Coursework Essay,
- PW = Project Work,
- Tes = Short test during term time)

Explanations:

- Two compulsory elective modules are counted for calculating the sum of credits in the second semester (*).
- The semesters indicated in the table are regular examination dates for the respective module.
- Two compulsory elective modules must be chosen from CEM 01, 02, 03 or 04.
- A compulsory elective module will be provided if at least four students have registered for the respective compulsory elective module.
- Further information on examinations and assessment components is provided in the module descriptions.

Appendix 2: Course Schedule

Module		Semester 1		Semester 2		Semester 3		Σ
		SWS	CR	SWS	CR	SWS	CR	
CM 01	Safety, Security and Ecology in Maritime Systems	7 ST	10					10
CM 02	Technical Aspects and Simulation of Maritime Systems			5 ST 1 Si	9			9
CM 03	Human Resources/Organisational Management	4 ST	6					6
CM 04	Maritime Business Communication	3 S	5	2 S	4			9
CM 05	Maritime Management/Port Operations	6 ST	9					9
CM 06	Management and Business Simulation			3 ST	5			5
CEM 01	Maritime Law			4 ST	6			6
CEM 02	Integrated Manoeuvring/Propulsion and Navigation Systems			3 ST 1 Si	6			6
CEM 03	Operation, Monitoring & Maintenance of Technical Systems			3 ST 1 Si/La	6			6
CEM 04	Operational & Strategic Management in Shipbuilding			4 ST	6			6
CM 07	Master's Dissertation incl. Colloquium						30	30
	Total	20	30	19	30*		30	90

Abbreviations:

CM Compulsory Module
 CEM Compulsory Elective Module
 SWS Contact hours/week
 ST Seminar Tuition
 S Seminar
 Si Simulator Practice
 La Laboratory Practical

Explanations:

- Two compulsory elective modules are counted for calculating the sum of credits in the second semester (*).
- Two compulsory elective modules must be chosen from CEM 01, 02, 03 or 04.
- A compulsory elective module will be provided if at least four students have registered for the respective compulsory elective module.

Appendix 3: Diploma Supplement

Please find the Diploma Supplement in the German original text of “Prüfungs- und Studienordnung für den Master-Studiengang Operation and Management of Maritime Systems der Hochschule Wismar University of Applied Sciences: Technology, Business and Design”