

**For information purposes only, the German original is binding.**

**Examination Regulations (Rules)  
of the Faculty of Mathematics and Natural Sciences  
at Christian-Albrechts-Universität zu Kiel (Kiel University)  
for students of the  
Bachelor of Science (B.Sc.) degree programme in “Physics of the Earth:  
Meteorology – Oceanography – Geophysics” and the  
Master of Science (M.Sc.) degree programmes in “Geophysics” and  
“Climate Physics: Meteorology and Physical Oceanography”  
of 15. July 2015**

**Extract: “Marine Climate Physics: Meteorology and Physical Oceanography” M.Sc.**

Published on 24 September 2015 (NBI. HS. MSGWG Schl.-H. p. 137), amended by statute of 19 November 2015, published on 28 December 2015 (NBI. HS MSGWG Schl.-H. p. 156), amended by statute of 16 June 2016, published on 14 July 2016 (NBI. HS MSGWG Schl.-H. p. 56), amended by statute of 10 January 2017, published on 15 February 2018 (NBI. HS MBWK Schl.-H. p. 4)

Based on Section 52 (1) Sentence 1 of the Schleswig Holstein Higher Education Act (HSG) in the version published on 28 February 2007 (GVObI. Schleswig-Holstein 2007, page 184), after a resolution was passed by the Convention of the Faculty of Mathematics and Natural Sciences of 24. June 2015 the following Rules were issued:

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## **I. General Examination Provisions**

### **§ 1**

#### **Scope of application**

- (1) These Examination Regulations in conjunction with the Examination Procedure Regulations (Rules) of Kiel University for students of Bachelor's and Master's Degree Programmes (PVO) apply to the teaching and assessment of the Bachelor's degree programme in the subject "Physics of the Earth: Meteorology – Oceanography – Geophysics" and the Master's degree programmes "Climate Physics: Meteorology and Physical Oceanography" and "Geophysics" at Kiel University.
- (2) They apply to
  1. all modules which are exclusively part of the degree programmes regulated by these Examination Regulations,
  2. all modules which are part of the degree programmes regulated by these Examination Regulations, and which are simultaneously exported to other degree programmes;
  3. all modules which are exclusively part of other degree programmes as exported modules.
- (3) Admission to modules offered by other faculties or other institutes of the same faculty and the respective module examinations are subject to the examination regulations of the respective faculties or institutes.

### **§ 2**

#### **Academic year**

The academic year applies to the courses in these Examination Regulations. Courses for both new students and returning students from odd-numbered semesters are only offered in a winter semester.

Registrations for the Bachelor's degree programme in "Physics of the Earth: Meteorology – Oceanography – Geophysics" and the Master's degree programme in "Climate Physics: Meteorology and Physical Oceanography" during odd-numbered semesters are only possible for a winter semester. Registrations during even-numbered semesters are only possible for a summer semester.

It is possible to begin the "Geophysics" Master's degree programme either in a winter or summer semester.

### **§ 3**

#### **Teaching and examination language**

Lectures for both the Bachelor's degree programme in "Physics of the Earth: Meteorology – Oceanography – Geophysics" and the Master's degree programme in "Geophysics" will usually be held in German. Modules can also be offered in English.

All compulsory, optional and specialised modules for the Master's degree programme in "Climate Physics: Meteorology and Physical Oceanography" will only be offered in English. Examinations will always be held in the same language as lectures.

### **§ 4**

#### **Module examinations and module grades**

- (1) The type and number of module examinations required as part of the modules can be found in the Annex.
- (2) The duration of a written examination must be at least 30 minutes and no longer than 2 hours. An oral examination shall last at least 15 and no more than 30 minutes.
- (3) If a module examination consists of several examinations, the module grade will be calculated using the arithmetic average of the grades for individual examinations or in accordance with the weighting of the individual examinations indicated in the Annex.

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- (4) Written module examinations will be assessed within two weeks after the end of the winter semester lecture period and within six weeks after the end of the summer semester lecture period.

**§ 5**

**Further prerequisites for admission to examinations**

- (1) If a module contains field trips, internships or practical exercises, admission to the examination assumes regular participation in these courses.
- (2) If a module includes courses that are not mentioned in paragraph 1, admission to the examination assumes regular participation in these courses, if the individual students cannot achieve the qualification objective without regular participation, or if acquiring competence is dependent on the presence of the other participants, or on being present at a certain place.
  - a. This is particularly the case for all seminars and exercises in which participants use scientific sources, make oral presentations based on these sources, and then discuss the contents scientifically with the other participants and the lecturers. These events are not only designed for the lecturers to pass on specialist scientific knowledge, instead the main goal is for the students to develop analytical skills, apply presentation techniques, and improve their discussion skills.
  - b. This is particularly the case for all seminars and exercises in which mathematical and physical principles and methods for solving geoscientific questions are conveyed, because understanding of these matters can only be optimally achieved by actively solving problems and getting immediate feedback.
- (3) Attendance is considered regular if the student does not miss more than 10% of the dates. The Examination Board decides regarding justified exceptional cases.
- (4) If a student misses more dates - but not more than a total of 40% of all course dates - due to illness or other good reasons, the responsible examiners may authorise the student to make up for the parts missed by delivering an equivalent achievement in terms of paragraph 5. However, students do not have the right to demand this. The reasons for failing to attend courses must be proven immediately; in the case of illness by a doctor's note.
- (5) As a precondition for admission to examinations, the following examination prerequisites may be required: practical reports, written papers, seminar presentations, completion of calculation exercises, demonstration of practical exercises, attendance certificates.

The modules in which examination prerequisites may be required are marked as such in the annex. The specific examination prerequisites along with further details will be suitably announced at the beginning of the respective semester.

**§ 6**

**Bachelor's and Master's thesis**

- (1) When applying for admission to the Bachelor's or Master's thesis, the candidate may propose supervisors and a topic for the thesis. This does not give rise to any claims.
- (2) In exceptional cases and with the consent of the Examination Board the Bachelor's or Master's thesis may be prepared at an institution outside the University, provided that appropriate supervision of the candidate is available there. Supervision may also be provided by people working at the supervising facility, who are qualified in accordance with the Examination Procedure Regulations for Bachelor's and Master's degree programmes. In cases of doubt the Examination Board will decide.
- (3) The Bachelor's or Master's thesis may be produced in English.
- (4) The Bachelor's or Master's thesis shall be accompanied by an abstract, written in both English and German.
- (5) The Bachelor's or Master's thesis is to be submitted to the responsible Examination

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Office in the form of two hard copies and additionally one copy in a form suitable for electronic data processing.

- (6) The Bachelor's or Master's thesis will be assessed within six weeks of submission in the form of two written reports by the examiners.

**§ 7**

**Restriction of admission to compulsory or optional courses**

- (1) The number of places available for the individual compulsory or optional courses is determined by the Faculty Convention at the request of the Marine Sciences and Geosciences Sections. If more students initially register for the practical courses, seminars or practical exercises than there are places available, the Examination Board determines whether the remaining students can be accommodated through other or additional courses.
- (2) If it is not possible to accommodate the remaining students, the person responsible for the course will select the students among those who are registered for a degree programme in which the course is envisaged as part of the curriculum, who have registered in due time before the deadline set by the responsible person and who satisfy the conditions for participation. The selection will be based on the following criteria:
- a. The first entitlement goes to students for whom attendance at this concrete course is essential for them to correctly complete their studies as part of the curriculum, and who, in the previous semester, were set back by one semester due to capacities.
  - b. The second entitlement goes to students who are currently in the semester for which the course is envisaged according to the curriculum, and to students who did not obtain the necessary certificate in the previous semester and therefore have to retake the course in accordance with these Examination Regulations. Within this entitlement, the first group is entitled to 90% of the places and the second group to 10%.
  - c. The third entitlement goes to students who are not currently in the semester for which the course is envisaged according to the curriculum and who must firstly register for the course at issue, and to students who already received a place on the course at issue in a previous semester but had to give it up with valid reasons in accordance with Section 52 (4) of the Schleswig-Holstein Higher Education Act, or for a comparable reason.
  - d. The fourth entitlement goes to students who already received a place on the course at issue in a previous semester and who vacated the course without evidence of a valid reason.

In the case of equal entitlement, the student with fewer semesters will be selected. If the number of semesters is the same, students will be selected by drawing lots. In cases of hardship the Examination Board shall decide.

**II. Special Examination Provisions for the Bachelor's Degree Programme**

[...]

**III. Special Examination Provisions for the Master's Degree Programmes**

**§ 13**

**Objective of the degree programme**

In the research-oriented Master's degree programmes which are the subject of these Regulations, students are provided with advanced knowledge in the selected subject areas as well as the skills required for independently carrying out project work and presenting the results. The Master's degree is regarded as proof that graduates are capable of performing independent, scientific work in their subject area. They are also accordingly qualified for professional careers. The degree also serves to qualify for a doctoral degree programme.

**§ 14**

**Structure of curriculum**

- (1) The standard period of study for the Master's degree programme is four semesters. The degree programme encompasses approximately 100 weekly 45-minute teaching units for the duration of one semester of about 12 weeks (Semesterwochenstunden - SWS) and 120 ECTS credits, including 25 credits for the Master's thesis in the "Climate Physics: Meteorology and Physical Oceanography" Master's degree programme and 28 credits for the Master's thesis in the "Geophysics" Master's degree programme. The number of SWS may deviate slightly from this, depending on the optional modules and the minor subject chosen.
- (2) In the free optional modules section, modules from the Bachelor's programme can also be included, depending on the requirements of the subject selected. However, their extent should not exceed 10 ECTS credits. The Examination Board decides regarding justified exceptional cases.

**§ 15**

**Admission to the Master's degree programme**

- (1) Anyone who has completed a Bachelor's degree programme (B.Sc.) in either Geophysics, Climate Physics, Meteorology, Oceanography or a related subject after a standard period of study of at least three years at a German or comparable foreign institution of higher education will be admitted to the Master's degree programme. The candidate must have obtained at least 180 ECTS credits or passed a comparable final examination.
- (2) The following additional conditions apply for admission to the Master's degree programme:
  - a. For the Master's degree programme in "Climate Physics: Meteorology and Physical Oceanography", the following applies: Applicants with a university degree in a related subject can be admitted without satisfying further conditions, if they have obtained at least a total of 50 ECTS credits in modules from the subjects of Physics and Mathematics. The content of these modules must meet the entry requirements for the Master's degree programme. If the applicant has obtained fewer than 50 ECTS credits but at least 40 ECTS credits in modules from the subjects of Physics and Mathematics, then admission is possible under the condition that the student catches up with the required ECTS credits as part of the optional studies.
  - b. [...]
  - c. Modules of the Bachelor's degree programme, which have been completed as part of the admission requirements, can be recognised towards completion of the optional modules required, for up to 10 ECTS credits.
- (3) In addition, the applicant must provide evidence of English language skills for admission to the "Climate Physics: Meteorology and Physical Oceanography" Master's degree programme. More details can be found in the study qualification rules (Studienqualifikationssatzung).
- (4) The Examination Board will decide whether the admission requirements are met.

**§ 16**

**Academic title**

The student is awarded the degree of Master of Science (M.Sc.) if he or she has obtained at least a final grade of 'sufficient'.

**§ 17  
Master's thesis**

- (1) Any candidate who has obtained at least 60 ECTS credits from module examinations in compulsory and optional modules may be admitted to the Master's thesis.
- (2) The period from when the topic is issued until the Master's thesis is submitted is six months. This deadline may be extended upon application, but not by more than two months, in accordance with the PVO for Bachelor's and Master's degree programmes.
- (3) The topic of the Master's thesis may be handed back only once and only within the first six weeks.

**§ 18  
Calculation of the final grade**

The grades of graded modules and the grade for the Master's thesis are used to calculate the final grade.

When calculating the final grade, the module grades are weighted according to the allocated number of ECTS credits. The grade for the Master's thesis is incorporated in the final grade with double the number of ECTS credits.

**IV. Transitional and Final Provisions**

**§ 19  
Entry into force, expiry, transitional provisions**

- (1) These Examination Regulations enter into force as of 1 October 2015.
- (2) At the same time, the degree-specific Examination Regulations (Rules) of the Faculty of Mathematics and Natural Sciences at Christian-Albrechts-Universität zu Kiel for students of the Bachelor of Science (B.Sc.) degree programme in "Physics of the Earth: Meteorology – Oceanography – Geophysics" and the Master of Science (M.Sc.) degree programmes in "Geophysics" and "Climate Physics: Meteorology and Physical Oceanography" of 29 November 2007 (Bulletin of the Ministry of Science, Economic Affairs and Transport of the Land Schleswig-Holstein (NBI. MWV Schl.-H. 2008, page 102), most recently amended by statute of 10 June 2015 (University Bulletin of the Ministry of Social Affairs, Health, Science and Equality of the Land Schleswig-Holstein (NBI. HS MSGWG Schl.-H., p. 129), cease to be in force.
- (3) Module examinations which have been completed and passed in full by the date these Examination Regulations enter into force will remain valid.
- (4) If a student has completed and passed independent parts of a module examination, these will be recognised. The Examination Board determines which additional examinations are necessary to complete the module, under consideration of the module's learning targets and the purpose of the examination.
- (5) If an examination has been completed and passed at the time these Examination Regulations enter into force, and this examination is not graded in accordance with the new stipulations, the grade will not be included. Upon the student's request, the Examination Board decides whether a grade will be included on the basis of the old Examination Regulations. An application for inclusion must be filed by 31/03/2016.
- (6) Examinations failed before these Examination Regulations entered into force will be set off against the number of attempts in accordance with the new Examination Regulations, provided the structure of the new module examinations permits recognition.
- (7) The Examination Board decides regarding special cases of hardship for which the student is not responsible.

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The University Board at Kiel University granted its approval in accordance with Article 1 § 52 (1) Clause 1 in conjunction with Article 2 § 1 (4) of the Schleswig-Holstein Higher Education Act in its letter dated 28 November 2007.

Kiel, 29 November 2007

Dean of the Faculty of Mathematics and Natural Sciences  
Kiel University  
Prof. Dr Jürgen Grotemeyer

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**Article 2 of the amended Examination Regulations of 10 January 2018:**

- (1) These Examination Regulations enter into force as of 01.04.2018.
- (2) Module examinations which have been completed and passed in full by the date these Examination Regulations enter into force will remain valid.
- (3) If a student has completed and passed independent parts of a module examination, these will be recognised. The Examination Board determines which additional examinations are necessary to complete the module, under consideration of the module's learning targets and the purpose of the examination.
- (4) If an independent part of an examination, for a module that has not yet been completed, has been taken and passed at the time these Examination Regulations enter into force, and this examination is not graded in accordance with the new stipulations, the grade will not be included.
- (5) Examinations failed before these Examination Regulations entered into force will be set off against the number of attempts in accordance with the new Examination Regulations, provided the structure of the new module examinations permits recognition.
- (6) Upon application, the Examination Board decides regarding special cases of hardship for which the student is not responsible.

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[...]

**3. Programme Schedule for the Master of Science in "Climate Physics: Meteorology and Physical Oceanography"**

The final grade is composed of the grades for all modules which are to be completed as part of the Master's degree programme.

	Module	Module description	TM	SWS	C/O	Requirements	Exam	ECTS	
								Sem.	Year
<b>1st Semester</b>	klim-301	Climate Dynamics (10 ECTS over 2 sem's): Climate Dynamics (klim-301a)	L/E	2/1	C	-	Oral (80%)	5	
	klim-304	Numerics and Statistics (10 ECTS over 2 semesters): Numerical Methods and Models (klim-304a)	L/E	2/2	C	-	-	5	
	klim-303	Climate Seminar **	S	2	O	-	OP	(5)	
	mete-301	Advanced Meteorology ** (10 ECTS over 2 semesters): Radiation (mete-301a)	L/E	2/1	O	-	-	(5)	
	ozgr-301	Advanced Physical Oceanography** (10 ECTS over 2 semesters): Thermohaline Circulation (ozgr-301a)	L/E	2/1	O	-	-	(5) 10 (2 x 5)	
		Specialised/comprehensive contents	L/S	2/1	C			5	
		Specialised /comprehensive contents	L/S	2/1	C			5	
				<b>Σ 18</b>				<b>Σ 30</b>	
<b>2nd Semester</b>	klim-301	Climate Dynamics: Oc.-Met.-Clim-Seminar (klim-301b)	S	2	C	-	OP (20%)	5	
	klim-304	Numerics and Statistics Data Analysis and Statistics (klim-304b)	L/E	2/2	C	-	Oral	5	
	mete-301	Advanced Meteorology**: Cloud Physics (mete-301b)	L/E	2/1	O		Oral	(5)	
	ozgr-301	Advanced Physical Oceanography: Winddriven Circulation** (ozgr-301b)	L/E	2/1	O		Oral	(5) 5 (1 x 5)	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
				<b>Σ 18</b>				<b>Σ 30</b>	<b>Σ 60</b>
<b>3rd Semester</b>	klim-305	Geophysical Fluid Dynamics: Fluid Dynamics I and II	L/E	4/2	C	-	Oral	10	
	ozgr-302	Physical Oceanography Seminar**	S	2	O		OP	(5)	
	mete-302	Meteorological Seminar**	S	2	O		OP	(5)	
	klim-302	Advanced Physical Climate** (10 ECTS over 2 sem's): Climate feedbacks (klim-302a)	L/E	2/1	O		-	(5) 10 (2 x 5)	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
				<b>Σ 16 or Σ 17</b>				<b>Σ 30</b>	
<b>4th Semester</b>	klim-302a	Advanced Physical Climate**: Regional Climate (klim-302b) or an advanced module	L/E	2/1	O		Oral	5 (5) 5 (1 x 5)	
	klim-401	Master's Thesis & Seminar			C	-		25	
				<b>Σ 3</b>				<b>Σ 30</b>	<b>Σ 60</b>

Note: \* See table "M.Sc. Advanced Modules" (Optional)

\*\* Advanced Modules: All in all 30 ECTS have to be completed in the optional section from the following modules: MNF-mete-301, MNF-ozgr-301, MNF-klim-302 (each 10 ECTS during 2 semesters) and MNF-mete-302, MNF-ozgr-302, MNF-klim-303 (each 5 ECTS).



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#### 4. Alternative Programme Schedule for the Master of Science in "Climate Physics: Meteorology and Physical Oceanography"

The final grade is composed of the grades for all modules which are to be completed as part of the Master's degree programme.

	Module	Module description	TM	SWS	C/O	Requirements	Exam	ECTS	
								Sem.	Year
<b>1st Semester</b>	klim-305	Geophysical Fluid Dynamics: Fluid Dynamics I and II	2L/E	4/2	C		Oral	10	
	ozgr-302	Physical Oceanography Seminar**	S	2	O		OP	(5)	
	mete-302	Meteorological Seminar**	S	2	O		OP	(5)	
	klim-302	Advanced Physical Climate** (10 ECTS over 2 semesters): Climate Feedbacks (klim-302a)	L/E	2/1	O		–	(5)	10
		Advanced/comprehensive contents*	L/S	2/1	C			5	(2 x 5)
		Advanced/comprehensive contents*	L/S	2/1	C			5	
					<b>Σ 16/17</b>				<b>Σ 30</b>
<b>2nd Semester</b>	klim-301	Climate Dynamics (10 ECTS over 2 sem's): Oc.-Met-Climate Seminar (klim-301b)	S	2	C		OP 20%	5	
	klim-304	Numerics and Statistics (10 ECTS over 2 sem's): Data Analysis and Statistics (klim-304b)	L/E	2/2	C		–	5	
	klim-302	Advanced Physical Climate**: Regional Climate (klim-302b) or an advanced module	L/E	2/1	O		Oral	5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
		Specialised /comprehensive contents*	L/S	2/1	C			5	
					<b>Σ 18</b>				<b>Σ 30</b>
<b>3rd Semester</b>	klim-301	Climate Dynamics: Climate Dynamics (klim-301a)	L/E	2/1	C		Oral 80%	5	
	klim-304	Numerics and Statistics: Numerical Methods and Models (klim-304a)	L/E	2/2	C		Oral	5	
	klim-303	Climate Seminar**	S	2	O		OP	(5)	
	mete-301	Advanced Meteorology** (10 ECTS over 2 sem's): Radiation (mete-301a)	L/E	2/1	O		–	(5)	
	ozgr-301	Advanced Physical Oceanography** (10 ECTS over 2 sem's): Thermohaline Circulation (ozgr301a)	L/E	2/1	O		–	5	10
		Specialised /comprehensive contents*	L/S	2/1	C			5	(2 x 5)
		Specialised /comprehensive contents*	L/S	2/1	C			5	
				<b>Σ 18/19</b>				<b>Σ 30</b>	
<b>4th Semester</b>	mete-301	Advanced Meteorology**: Cloud Physics (mete-301b)	L/E	2/1	O		Oral	(5)	
	ozgr-301	Advanced Physical Oceanography**: Winddriven Circulation (ozgr-301b)	L/E	2/1	O		Oral	(5)	5
	klim-401	Master's Thesis & Seminar			C			25	(1 x 5)
					<b>Σ 3</b>				<b>Σ 30</b>

Note: \* See table "M.Sc. Advanced Modules" (Optional)

\*\* Advanced Modules: All in all 30 ECTS have to be completed in the optional section from the following modules: MNF-mete-301, MNF-ozgr-301, MNF-klim-302 (each 10 ECTS during 2 semesters) and MNF-mete-302, MNF-ozgr-302, MNF-klim-303 (each 5 ECTS).

**Table of M.Sc. Advanced Modules from the Climate Physics Section**

Abbr.	Module Name	Module Elements and SWS	C/O	ECTS	Exam
mete-301a	Advanced Meteorology a	Radiation 2L+1E	O	5	Oral
mete-301b	Advanced Meteorology b	Cloud Physics 2L+1E	O	5	Oral
klim-302 a	Advanced Physical Climate a	Regional Climate 2L+1E	O	5	Oral
klim-302b	Advanced Physical Climate b	Climate Feedbacks 2L+1E	O	5	Oral
ozgr-301 a	Advanced Phys. Oceanography a	Thermohaline Circulation 2L+1E	O	5	Oral
ozgr-301 b	Advanced Phys. Oceanography b	Winddriven Circulation 2L+1E	O	5	Oral
klim-303	Climate Seminar	Advanced Climate Seminar 2S	O	5	Oral
mete-302	Meteorological Seminar	Seminar 2S	O	5	OP
ozgr-302	Physical Oceanogr. Seminar	Seminar 2S	O	5	OP
mete-401	Modern Aspects in Meteorology I	2L+1S	O	5	OP/A/O
mete-402	Modern Aspects in Meteorology II	2L+1S	O	5	OP/A/O
mete-403	Modern Aspects in Meteorology III	2L+1S	O	5	OP/A/O
ozgr-401	Modern Aspects in Oceanography I	2L+1S	O	5	OP/A/O
ozgr-402	Modern Aspects in Oceanography II	2L+1S	O	5	OP/A/O
ozgr-403	Modern Aspects in Oceanography III	2L+1S	O	5	OP/A/O
ozgr-404	Modern Aspects in Oceanography IV	2L+1S	O	5	OP/A/O
ozgr-405	Modern Aspects in Physical Oceanography V	2V	O	5	OP/A
ozgr-406	Modern Aspects in Physical Oceanography VI	2V	O	5	OP/A
klim-402	Ocean Circulation and Climate Dynamics Colloquium	L 1 SWS	O	2	
klim-403	Environmental Science Summer School	L Block course/block Seminar	O	5	A
klim-404	Ocean and Climate Physics Research Internship	Project work/ research internship	O	5	A

\* Optional modules from the Faculty of Mathematics and Natural Sciences, preferably geological and marine sciences, or physics may be chosen as advanced modules.

**Explanations:**

- Module: Module name in the form of the module code
- Module description: Name of the module
- TM: Teaching method, type of course  
L: Lecture, S: Seminar, E: Exercise
- SWS: Semesterwochenstunden (weekly 45-min teaching units) in the course
- C/O: Status of the course (compulsory/optional)
- Requirement: Admission requirements for the course
- Exam: Type of examination  
A: Assignment (Hausarbeit), Oral: Oral examination, OP: Oral presentation
- ECTS: ECTS credits

[...]