

Examination Regulations for the Master's Program in Scientific Computing at Technische Universität Berlin

(read-only version: The version at hand is a non-official text in which changes and corrections are partially incorporated. Decisive and legally binding is the version in the Amtliches Mitteilungsblatt der Technischen Universität Berlin AMBl. TU 23/2006, released August 31st 2006.)

On 10 August 2005, the Board of Faculty II - Mathematics and Natural Sciences enacted the following examination regulations for the master's program in Scientific Computing in accordance with Section 71 (1) no. 1 of the Berlin State Higher Education Act (*Berliner Hochschulgesetz - BerlHG*), in the version of 13 February 2003 (Berlin Gazette of Laws and Ordinances [GVBl.], page 82), last amended by the Act of 21 April 2005 (GVBl, page 254).

Overview of contents

I. General regulations

Section 1 - Purpose of the of examination

Section 2 - Master's degree

Section 3 - Program structure, modules, ECTS credit points, and standard period of study

Section 4 - Examination Board

Section 5 - Examiners and observers

Section 6 - Internship coordinator

Section 7 - Types of examination and examination dates

Section 8 - Oral module examinations

Section 9 - Written module examinations

Section 10 - Coursework equivalent to an examination

Section 11 - Credit transfer for periods of study, examinations and other credits earned

Section 12 - Additional modules

Section 13 - The grading of assessments

Section 14 - Repeating examinations

Section 15 - Withdrawing from examinations

Section 16 - Exceeding the standard period of study, absence from examinations, non-submission, misconduct and breach of regulations

Section 17 - Announcement of the examination result

Section 18 - Transcript, master's degree certificate and additional certificates

Section 19 - Retraction of the result of the master's examination

Section 20 - Authorization for data processing and viewing the examination documents

II. Master's examination

Section 21 - Scope of the master's examination

Section 22 - Master's thesis

Section 23 - Acceptance and assessment of the master's thesis

Section 24 - Admission requirements for the master's examination

III. Final part

Section 25 - Entry into force

I. General regulations

Section 1 Purpose of the examination

(1) These regulations govern the master's examination for the degree program Scientific Computing.

(2) The master's examination is intended to determine whether a candidate is in possession of an in-depth specialist knowledge and understanding of scientific computing, an overview of its application in the engineering and natural sciences and is able to work independently using scientific methods and findings.

Section 2 Master's degree

Technische Universität Berlin awards the academic degree Master of Science (abbreviated: M.Sc.) to students who have passed the master's examination.

Section 3 Program structure, modules, ECTS credit points, and standard period of study

(1) The degree program is structured into modules.

(2) The scope of the modules is indicated by the number of credit points assigned to them in accordance with the European Credit Transfer System (ECTS). One ECTS credit point (CP) corresponds to a workload of 30 hours.

(3) The total scope of the program is 120 credit points.

(4) The standard period of study, including completion of the master's thesis, is four semesters.

(5) Upon passing the master's examination, students will have successfully completed their degree.

Section 4 Examination Board

(1) The Faculty Board appoints the Examination Board. The Examination Board consists of seven members and their deputies and is composed as follows:

- a) Four professors from the Institute of Mathematics

- b) A member of academic staff from the Institute of Mathematics
- c) Two students from the mathematics master's programs

The members of the Examination Board are appointed by representatives of their membership groups in the Faculty Board.

(2) The Examination Board elects one of its professors as chairperson and others as deputies.

The chairperson convenes and leads the sessions of the Examination Board. Should the chairperson be prevented from performing any of their duties, one of their deputies will step in.

The Examination Board is quorate if the chairperson or one of their deputies and a minimum of three further members of the board, of which at least two must be professors, are present.

(3) In accordance with Section 49 BerIHG, the term of office of the members of the Examination Board is two years. Re-election to the Examination Board is permitted. With the support of a majority of its membership, the Faculty Board can appoint a new Examination Board before the existing board has served its full term.

(4) The Examination Board is responsible for all issues relating to the examination regulations, in particular for the following:

- The organization of examinations,
- The credit transfer of coursework, assessments and examinations and periods of study,
- The naming of individuals competent to act as examiners and observers,
- The appointment of examiners and observers,
- Approving the use of equivalent examinations in a different form in cases where a candidate can provide proof of (substantiated by a medical certificate) a long-term or chronic disability preventing them from completing an examination or piece of coursework - either partly or in full - in the specified form.

The Examination Board can take a decision to confer some or all of its responsibilities to the chairperson. Those affected by this decision can raise objections; these objections are to be presented to the Examination Board for a ruling.

Members of the Examination Board are not permitted to exercise board functions if they are part of the examination process in question.

The Examination Board takes all its decisions with a simple majority of those present.

(5) The Examination Board is to report to the Faculty Board upon request about the development of the examinations and study periods and is to present suggestions for revising the study regulations and examination regulations.

(6) Members of the Examination Board have the right to observe examinations and to carry out detailed checks regarding compliance with the examination regulations. Members of the Examination Board are not classed as an "audience" as defined by Section 8 (6).

(7) Before the Examination Board takes any decisions pertaining to an individual case, the person affected is to be given the opportunity to state their case.

(8) Decisions taken by the Examination Board are to be communicated to the relevant office of the Central University Administration by its chairperson, as far as this is required for them to perform their work or if the rights of third parties are affected.

(9) The members of the Examination Board and their deputies are obliged to maintain official secrecy. If the chairperson of the Examination Board is not a public service employee, they are required to provide binding assurances regarding confidentiality.

Section 5 Examiners and observers

(1) Section 32 BerlHG stipulates that professors at Technische Universität Berlin and academic staff with a *Habilitation* are authorized to conduct examinations within their subject area.

(2) The examination modules not taught by the teaching staff of the Institute of Mathematics are to be examined by those authorized to examine these modules.

(3) The Examination Board will take all decisions pertaining to the extension of the pool of authorized examiners.

(4) The Examination Board will assign an examiner to each candidate for every module examination. The candidate can suggest an examiner. This suggestion can be ignored, but the board must offer a reason for its decision.

(5) The examiner of every oral examination must conduct the examination in the presence of an observer. The observer must hold a university degree and have an understanding of the examination subject. Observers do not have any decision-making powers. Their role is to ensure that examinations are conducted in the correct manner.

(6) The examiners and observers are obliged to maintain secrecy. If the examiners and observers are not public service employees, the chairperson of the Examination Board is to obtain binding assurances from them that they will maintain the confidentiality of their work in respect to examinations.

Section 6 Internship coordinator

The Institute Council will appoint a member of the professorial staff or a member of the academic staff with a *Habilitation* from the Institute of Mathematics to act as an internship coordinator. This person will take all decisions required by Section 21 (5).

Section 7 Types of examination and examination dates

(1) Examinations take the following forms (see Sections 8 - 10):

- Oral examinations
- Written examinations
- Assessments equivalent to an examination

(2) The form to be used is specified in the applicable module description. The form of examinations is determined by the Faculty Board.

(3) Students must register for examinations three working days before the date of the examination at the latest. With the exception of written examinations, registration is to be performed at the relevant office of the Central University Administration. The form and registration deadline for written examinations will be determined by the body or person organizing them. Examiners

responsible for oral examinations must set the date of the examination to allow the candidate to sit the examination within three months of registering. Students must register for repeat module examinations with the relevant office of the Central University Administration.

(4) The Examination Board can permit an oral examination to be held as a written examination on organizational grounds.

Section 8 Oral module examinations

(1) Oral module examinations are conducted as individual examinations in the presence of an observer. Module examinations with two candidates are permissible with the agreement of the candidates and the examiner. The examination should be twice the length of an individual examination. Repeat examinations may only be conducted as individual examinations.

(2) An oral examination usually has a duration of 45 minutes, with a minimum of 30 minutes and a maximum of 60 minutes. An extension to an oral examination requires the agreement of the candidate.

(3) Oral module examinations can include written tasks of an appropriate scope, if this step does not lead to the loss of the oral character of the examination.

(4) An oral module examination can be interrupted on important grounds. A new date for the examination must be set so as to ensure that the examination takes place immediately after the reasons for its interruption cease to apply, or after 14 days at the latest. The examination results which have already been attained are to be awarded to the student. In such a case, the candidate will not need to re-register for the examination again. The grounds for the interruption of an examination will be communicated to the Examination Board.

(5) The subject, results and the course of the module examination are to be recorded by the observer. The record is to be signed by the examiner and the observer and placed with the examination documents. Any deviating accounts of events are to be included in the record. The record of the examination is to be sent to the responsible examination office of Technische Universität Berlin.

(6) Given the approval of the candidate(s) and the availability of space, members of Technische Universität Berlin can attend examinations as an audience.

The audience is not permitted to be present during the discussion and assessment of the examination. The presence of an audience is to be noted in the record.

(7) The audience can be excluded from the examination should its presence constitute a disturbance or interfere with the conducting of the examination, or at the candidate's request. Any continuation or repeat of the examination is also to be performed without an audience.

Section 9 Written module examinations

(1) Written examinations will be proctored. They are usually corrected and graded by two authorized examiners (as defined by these examination regulations).

(2) The maximum duration of a written examination is 240 minutes.

(3) Decisions pertaining to the resources which candidates are permitted to use in the written examination are to be taken by the examiner. An exhaustive list of the permitted resources will be published together with the date of the examination.

Section 10 Coursework equivalent to an examination

(1) When required to submit work equivalent to an examination, students are required to submit pieces of coursework which taken together are equivalent to an examination. Coursework equivalent to an examination must be adequately adapted to the teaching and learning contents of a module.

(2) Coursework equivalent to an examination takes the form of written presentations, oral presentations, records of practical tasks or discussions in one or more classes.

(3) The nature, scope and weighting of the coursework equivalent to an examination and the criteria for their assessment are to be determined by the responsible examiner and announced at the start of the first class.

Section 11 Credit transfer for periods of study, examinations and other credits earned

(1) Section 6 of the Technische Universität Berlin Regulations Pertaining to the Rights and Obligations of Students (*Ordnung der Technischen Universität Berlin über Rechte und Pflichten der Studentinnen und Studenten*) applies to the credit transfer of coursework and assessments.

(2) Credit points may also be awarded for coursework of an equivalent scope and focus achieved in a non-degree context, such as IT courses run by commercial institutions.

(3) Should it prove impossible to demonstrate the equivalence of such assessments in accordance with Section 6 of the Technische Universität Berlin Regulations Pertaining to the Rights and Obligations of Students, the Examination Board will rule as to whether a supplementary qualification examination is to be taken. Supplementary qualification examinations serve to determine whether a student satisfies the minimum knowledge requirements in the relevant examination subject (a minimum grade of "sufficient" is required). Supplementary entrance examinations do not require the student to submit any coursework. If a supplementary entrance examination is graded as "sufficient" or better, it is taken as having been passed. Otherwise, it will be considered as a "fail". Should the candidate fail this examination, they will be required to pass it as a regular module examination or a part of the module examination.

(4) The conducting of supplementary qualification examinations is subject to the specifications of Sections 8 - 10.

Section 12 Additional modules

During their studies, a candidate may request permission from the Examination Board to take additional examinations from modules taught at Technische Universität Berlin supplementary to their master's examination. Definitively failing such an additional examination will not mean the end of the degree program for which the candidate is registered.

Students wishing to take examinations in an additional module must register for them before the last assessment required by their degree program.

Separate certificates will be issued for passed additional examinations.

A candidate may request (before the certificate is issued) for the module of the additional examination (graded or ungraded) to be specified on the master's transcript. This grade will not be incorporated in the calculation of the overall grade awarded for the master's degree in accordance with Section 13(4).

Section 13 The grading of assessments

(1) Each module examination is awarded a grade by an examiner. This grade will be awarded in accordance with the following grading key:

Module grade	Assessment	
1.0 ; 1.3	Very good (<i>sehr gut</i>)	Outstanding work
1.7; 2.0; 2.3	Good (<i>gut</i>)	Above average work
2.7; 3.0; 3.3	Satisfactory (<i>befriedigend</i>)	Work that satisfies average requirements
3.7 ; 4.0	Sufficient (<i>ausreichend</i>)	Work, which despite its deficiencies, still satisfies the requirements for a pass
5.0	Insufficient (<i>nicht ausreichend</i>).	Work which fails to satisfy the requirements for a passing grade

(2) A module examination is taken as having been passed if it is awarded a minimum grade of "sufficient (4.0)".

(3) The master's examination is taken as having been passed if all module examinations and the master's thesis have been awarded a minimum grade of "sufficient" (4.0)".

(4) An overall grade is awarded for the master's examination. This is made up of the weighted arithmetic average of all the grades awarded for the modules and the master's thesis. The weighting is based on the number of credit points awarded for the respective modules and the master's thesis. The overall grade and the individual grades for module examinations in the form of assessments equivalent to an examination are established in accordance with the following table:

Grade	Assessment
1.0-1.5	Very good (<i>sehr gut</i>)
1.6-2.5	Good (<i>gut</i>)
2.6-3.5	Satisfactory (<i>befriedigend</i>)
3.6-4.0	Sufficient (<i>ausreichend</i>)
4.1-5.0	Insufficient (<i>nicht ausreichend</i>).

(5) The ECTS grading scale for the overall assessment divides students into statistical ranges. Graduates will receive the following ECTS grade indicating the relative performance of the students; this can be incorporated in their Diploma Supplement.

A	The best 10 %
B	The next 25 %
C	The next 30 %
D	The next 25 %
E	The next 10 %

An ECTS grade can only be awarded once the requisite information is available.

Section 14 Repeating examinations

- (1) Each failed module examination can only be repeated once. Failed examinations taken at other universities or other degree programs at Technische Universität Berlin will be counted.
- (2) Given the submission of legitimate grounds, the Examination Board can approve an application to repeat an examination for a second time. In particular, this applies to circumstances for which the student cannot be held accountable.
- (3) Failed examinations taken at other universities or other degree programs at Technische Universität Berlin will be counted.
- (4) Passed examinations may not be repeated.
- (5) If a module examination or the master's thesis has been failed for the final time, the master's examination has also been failed and cannot be repeated.
- (6) Candidates taking a repeat examination can require that a member of the Examination Board be present in the examination.

Section 15 Withdrawing from examinations

- (1) The candidate can rescind their registration for admission to an oral or written examination without the need to state grounds, as long as they inform the relevant office of the Central University Administration and the examiner five working days before the date of the examination.
- (2) After the end of the deadline as specified in subsection 1, a candidate can only withdraw from an examination by submitting valid reasons for which they are not responsible. These are to be submitted in a suitable form to the Examination Board via the relevant office of the Central University Administration. Should the candidate wish to specify grounds of illness, they must submit a medical certificate certifying their unfitness to take an examination. This certificate is to be submitted within five working days after the date of the examination. The Examination Board can extend the deadline if the candidate is able to furnish proof that they were unable to submit their reasons within the specified time.

Section 16 Exceeding the standard period of study, absence from examinations, non-submission, misconduct and breach of regulations

(1) If a student fails to complete the master's examination within two degree semesters beyond the standard period of study, they are required to attend special examination guidance for the master's examination.

(2) The special examination guidance will take place in accordance with Section 3a of the Technische Universität Berlin Regulations Pertaining to the Rights and Obligations of Students. Students who do not comply with the requirement to complete the special examination guidance will be disenrolled *ex officio* in accordance with Section 15 (1) sentence 3 BerlHG.

(3) If a candidate fails to complete an examination on the arranged date or if they fail to submit their master's thesis by the deadline, the examination will be graded as "fail". Any reasons advanced for this failure to attend or submit must be plausible and submitted in writing and without delay. The relevant examination office of Technische Universität Berlin will work in consultation with the Examination Board to decide whether to accept these reasons.

If the reasons are accepted, a new date will be arranged. The examination results which have already been attained are to be awarded to the student.

(4) Failure to attend an examination due to illness must be supported by a medical certificate submitted within five days of the date of the examination.

If the candidate is able to demonstrate that it was impossible for them to submit the medical certificate within the required time, the Examination Office of Technische Universität Berlin can extend the deadline. The Examination Board can require that the candidate submit a medical certificate from a public health officer (*Amtsarzt/Amtsärztin*).

(5) The Examination Board is to issue negative decisions with justifications to the candidate without delay.

(6) Any candidates found to have attempted to influence the outcome of their examination through misconduct or the use of impermissible materials and any candidates found to have infringed the relevant examination regulations can be excluded from the examination and prevented from completing it. The examination in this module will be graded as "fail". The results of any completed assessments will not be affected by this.

Section 17 Announcement of the examination result

(1) Examination results are to be communicated in writing to the relevant office of the Central University Administration which is responsible for communicating them to the candidate. The examiner can also directly inform candidates of the results of a written examination or an assessment equivalent to an examination.

(2) The results of oral examinations will be communicated to the candidate immediately after completion of an examination. An audience is not permitted to attend.

(3) Candidates who fail their last attempt at a master's examination (final failure) will, at the request of the Examination Board, be issued written notification by the relevant office of the Central University Administration. This should also provide information on the right to appeal.

Section 18 Transcript, master's degree certificate and additional certificates

(1) A transcript of records is to be issued without delay for a passed master's examination. It will specify:

1. The name of the degree program, the module area and corresponding modules completed stating their title, grade, assessment and number of credit points. In the case of the "Mathematical Seminars" module, the topic of the seminar presentation will be specified as the title.
2. The topic of the master's thesis and the grade, assessment and number of credit points.
3. The overall grade and overall assessment in accordance with Section 13 (4).

A Diploma Supplement will be issued in German and English as an annex to the transcript.

(2) If any of the credit points to be specified on the transcript were attained via credit transfer, this will be recorded on the transcript. This is not applicable if only parts of a module examination resulted from credit transfer.

(3) A certificate for the examination in accordance with subsection 1 and subsection 2 will not be issued if credits earned and examinations of more than half of the credits to be earned (calculated in credit points) resulted from credit transfer and the credits and examinations transferred came from a completed degree program. In this case, the relevant office of the Central University Administration will issue certification specifying the module examinations taken in accordance with these examination regulations and the grades awarded for them. The certification will also confirm that the combination of the additional credits earned and the previously completed degree program means that the requirements of these examination regulations have been met.

(4) The transcript will be issued with the date on which the last assessment was submitted for the last examination. It will be signed by the chairperson of the Examination Board and the dean. The certificate will bear the seal of Technische Universität Berlin.

(5) In addition to the transcript, a degree certificate will be issued with the same date stating the award of a Master of Science (abbreviated M. Sc.). The degree certificate will be signed by the president of Technische Universität Berlin and the dean and will bear the seal of Technische Universität Berlin.

(6) The issue of the degree certificate officially confers the title "Master of Science".

(7) The transcript and the master's certificate will state that the examination has been passed in accordance with the specifications of these examination regulations.

(8) Should the candidate fail the master's examination for the final time, they can apply for a certificate which specifies the assessments submitted and their grades and that the master's examination has been failed.

Section 19 Retraction of the result of the master's examination

(1) Should candidates be found to be guilty of examination misconduct or the use of unpermitted aids after the issue of the certificate, the Examination Board in collaboration with the Faculty Board can change the affected grade retrospectively and declare the examination to be partially or completely failed.

(2) If the preconditions for admission to an examination were not satisfied, but the candidate did not intend any misconduct, and this fact comes to light only after issue of the transcript, then this is considered rectified by the student having passed the examination. Should the candidate have gained admission to the examination through intentional misconduct, the Examination Board in consultation with the Faculty Board will decide whether to withdraw the transcript.

(3) The incorrect transcript is to be retracted and a new transcript issued if necessary. A decision in accordance with subsection 1 and subsection 2 sentence 2 cannot be made more than five years after the date on which the transcript was issued. Subsections 1 and 2 apply for certificates in accordance with Section 18 subsections (3) or (8) accordingly.

(4) The specifications pertaining to the retraction of an academic qualification remain unaffected.

Section 20 Authorization for data processing and viewing the examination documents

(1) The Student Data Ordinance regulates the gathering and deletion of data.

(2) Candidates will be granted the right to view their written examination, the examiner's report and the examination record within 18 months of completing a module examination. The chairperson of the Examination Board will determine the location and time of the viewing and will inform the authorized examiners. Berlin administrative law (*Verwaltungsverfahrensgesetz von Berlin*) applies.

II. The master's examination

Section 21 Scope of the master's examination

(1) The master's examination consists of the examinations in the modules selected or to be completed in the following areas 1 - 5, the master's thesis and the research internship.

No.	Area	Credit points
1	Scientific Computing	27
2	Applied Mathematics	20
3	Application Discipline	19
4	Electives	5
5	Mathematical Seminars	12
6	Research Internship	7
7	Master's thesis	30

(2) The types and modalities of examination (see Section 7 subsections 1, 2 and 4)) deployed in the modules of the various areas are specified in the module descriptions. Students will be informed of these specifications four weeks before the examination at the latest.

(3) With the exception of the master's thesis, individual module examinations can be taken individually or at the same time and in any order. Students are required to complete the work specified in these regulations for each module examination.

(4) In the event that the range of courses offered does not allow a combination of modules with the required number of credit points in areas 1 to 4, a total of up to two credit points may be moved between the areas. Decisions on this matter are to be taken by the Examination Board. The number of credit points earned in the areas may change by a maximum of two points. Should this not be possible, students may earn an additional four credit points in areas 1 to 3, which are taken into account in the calculation of the overall grade in accordance with Section 13 (4).

(5) The internship coordinator is responsible for all decisions pertaining to the recognition and assessment of a research internship and the resulting credit transfer in area 6. They will base their decision on the certification from the internship provider. The student concerned may appeal against the internship coordinator's decision to the Examination Board, which will reach a final decision on the matter. In exceptional cases, the internship coordinator can permit credit transfer from other assessments of the same scope.

Section 22 Master's thesis

(1) The master's thesis is intended to enable the student to show that they are able to work independently, using scientific methods to complete a task drawn from the area of scientific computing and to present their work and findings in an appropriate form.

(2) The Examination Board will consult with the supervisor of the thesis and the student to establish the topic of the master's thesis.

(3) The period for completion is six months. The topic of the master's thesis / the task to be completed must be defined in such a way as to permit its completion within the intended period. The writing period starts on the date on which the topic was issued by the relevant office of the Central University Administration. The topic can be changed within the first four weeks; the new topic is not classed as issued until approved. In exceptional cases, and in response to a justified application, the Examination Board can extend the writing period of the master's thesis.

(4) The Examination Board will ensure the equivalence of topics and make certain that the master's thesis can be written within the completion period.

(5) Students are permitted to complete the master's thesis externally at a suitable company or scientific institution, as long as the requirement of academic supervision can be satisfied.

(6) The master's thesis is to be written in German or English and submitted in three bound, type-written copies. Given the permission of the supervisor, students can also write their thesis in a different language and/or submit it in hand-written form. If the master's thesis is composed in a language other than German, it must be accompanied by a detailed German-language summary of the findings.

(7) Upon submission of the master's thesis, the candidate is to provide a written undertaking that the thesis is their own original work and that they have not used any sources or materials other than those specified in their references. Material taken from other scientific works must be identified as such at the relevant places within the master's thesis.

Section 23 Acceptance and grading of the master's thesis

(1) The master's thesis is to be submitted to the relevant office of the Central University Administration by the deadline; the date and time of submission is to be recorded.

(2) The master's thesis is to be assessed by two examiners named by the Examination Board at the same time as the topic of the thesis is issued. One of the examiners must be a professor or adjunct lecturer (*Privatdozent/Privatdozentin*) from the Institute of Mathematics at Technische Universität Berlin. The second examiner will be appointed by the Examination Board upon issue of the topic.

(3) The master's thesis is to be assessed and graded by both examiners within no more than four weeks. The assessment and grade are to be issued in writing.

(4) If both examiners are in agreement as to whether the thesis is to be passed or failed, the grade awarded will be made up of the arithmetic mean as per Section 13 (4) of both grades as defined in Section 13 (1). Should the two examiners be unable to agree on a pass or fail grade, the Examination Board will ask them to reconsider and consult. Should the examiners remain unable to agree, the professorial members of the Examination Board are to interview the examiners. They are also entitled to appoint a third examiner. After consultations, they will then decide on the final grade.

Section 24 Admission requirements and the admissions procedure

(1) Applications for admission to the master's examination are to be submitted in writing to the relevant office of the Central University Administration together with the first module examination in accordance with Section 21 (1) no. 1 - 5. The application is to be accompanied by the following documentation, as far as they have not already been submitted to the Examination Office.

- a) A declaration by the candidate that they are aware of the specifications of these examination regulations and the study regulations.
- b) A declaration from the candidate as to whether they have failed an examination in the same or a similar degree program at a university within the jurisdiction of the *Grundgesetz* or have definitively failed an examination, or whether they are currently the subject of a pending examination procedure.
- c) Proof of enrollment in the Scientific Computing master's program at Technische Universität Berlin.
- d) A degree schedule signed by a mentor and the candidate.
- e) Any confirmations of credit transfer in accordance with Section 11.

Should the candidate be unable to submit the required documents in the fashion required, the Examination Board can provide permission for them to submit proof in a different fashion.

(2) The Examination Board takes all decisions pertaining to admission to the master's examination. Admission may only be rejected if:

- a) The documents required by subsection 1 are incomplete.
- b) The candidate has definitively failed an examination in the same or a similar degree program at a university within the jurisdiction of the *Grundgesetz*.
- c) The candidate is the subject of a pending examination procedure in the same or a similar degree program at a university within the jurisdiction of the *Grundgesetz*.
- d) They have failed to submit a degree schedule.
- e) Their entitlement to sit an examination has expired.

(3) Registration for a module examination requires submission of proof that credits have been earned as specified in the relevant module description.

(4) Students may only register their master's thesis after having provided proof that they have earned credit points in the areas:

- Scientific Computing, Applied Mathematics, Application Discipline and elective modules totaling 50 CP
- Mathematical Seminars 12 CP
- Research internship 7 CP

(5) Students must have registered for the master's thesis before or within three months after the last module examination. Students must have registered for their last module examination before or within three months after submission of the master's thesis.

III. Final part

Section 25 Entry into force

These regulations take effect on the day after their publication in the Technische Universität Berlin Official Gazette.