

Examination regulations for the Bachelor's degree programme in Materials Science

From 28 April 2019

On the basis of § 34 paragraph 1 sentence 1 of the Saxon Higher Education Freedom Act (Sächsisches Hochschulfreiheitsgesetz) in the version of the announcement of 15 January 2013 (SächsGVBl. p. 3), Technische Universität Dresden enacts the following examination regulations as statutes.

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Section 1: General provisions

§ 1

Standard period of study

The standard period of study for the Bachelor's degree programme in Materials Science includes attendance, self-study and the Bachelor's examination.

§ 2

Examination structure

The Bachelor's examination consists of module examinations as well as the Bachelor's thesis and the colloquium. A module examination concludes a module and consists of at least one examination. The examinations are taken during the course of study.

§ 3

Deadlines and dates

(1) The Bachelor's examination shall be taken within the standard period of study. A Bachelor's examination which has not been taken within four semesters after completion of the standard period of study shall be deemed to have been failed. A failed Bachelor's examination may be repeated once within one year. After expiry of this period, it is deemed to have been failed again. A second repeat examination is only possible on the next possible examination date, after which the Bachelor's examination is deemed to have been definitively failed.

(2) Module examinations shall be taken by the end of the respective semester specified by the study schedule.

(3) The Technische Universität Dresden ensures through the study regulations and the courses offered that study and examination achievements as well as the Bachelor's thesis and the colloquium can be taken within the set periods of time. The students are informed in good time, as is customary in the faculty, both about the type and number of study and examination achievements to be taken and about the dates on which they are to be taken, as well as about the submission and submission date of the Bachelor's thesis and the date of the colloquium. The students shall also be informed of the possibility of repeating each module examination.

(4) During maternity leave, no time limit begins to run and it is not counted towards current time limits. With regard to taking parental leave, reference is made to § 12 Paragraph 2 of the Matriculation Regulations.

§ 4

General admission requirements and admission procedure

(1) Admission to examinations of the Bachelor's examination according to § 2 sentence 1 is only possible for those who

1. is enrolled in the Bachelor's degree programme in Materials Science at the Technische Universität Dresden and
2. has demonstrated the professional requirements (§ 24) and

3. has made a data-processing recorded declaration in respect of paragraph 4 number 3.

(2) The student must register for the performance of examinations. The student has the right to withdraw from examinations from the first to fourth semesters of the study plan up to a period of five working days, and from examinations from the fifth and sixth semesters of the study plan up to a period of three working days before an examination date without giving reasons. The form and deadline for registration as well as the form of deregistration are determined by the Examination Board and announced at the beginning of each semester in the usual manner of the faculty. The same applies to bonus performances.

(3) The admission shall take place

1. to a module examination due to the first registration for an examination performance of this module examination,
2. for the Bachelor's thesis on the basis of the student's application for the issue of the topic or, in the case of § 19 paragraph 3 sentence 5, with the issue of the topic and
3. to the colloquium based on the assessment of the Bachelor's thesis with a grade of at least "sufficient" (4.0).

(4) Admission shall be refused if

1. the requirements referred to in paragraph 1 or the procedural requirements referred to in paragraph 2 are not fulfilled, or
2. the documents are incomplete or
3. the student has already definitively failed an examination required for the completion of the Bachelor's degree programme in Materials Science.

(5) The Examination Board decides on admission. The announcement may be made publicly. Section 16 (4) remains unaffected.

§ 5

Types of examination performance

(1) Examination performances shall be

1. written examinations (§ 6),
2. oral examination performances (§ 7),
3. papers (§ 8) and/or
4. other examination performances (§ 9)

to be performed. Written examinations using the multiple-choice (MC) method are possible. The conduct and assessment of the examinations are regulated in the MC regulations. In modules that are recognisably subject to several examination regulations, synonyms are permitted for examination performances with the same content.

(2) Studies and examinations must be completed in German or, according to the module descriptions, in English. If, according to the module description, a module primarily serves the acquisition of foreign-language qualifications, course and examination achievements may also have to be completed in the respective foreign language according to the assignment.

(3) If the student can credibly demonstrate that he or she is unable to take examinations in whole or in part in the prescribed form due to a long-term or permanent physical disability or chronic illness, the chairperson of the Examination Board shall, upon request, allow the student to take the examinations within an extended processing time or in an equivalent manner (compensation for disadvantages). For this purpose, the submission of a medical certificate and, in

cases of doubt, an official medical certificate may be required. The same applies to bonus performances.

(4) If the student can credibly demonstrate that he/she is unable to complete examinations as prescribed due to the care of his/her own children up to the age of 14 or the care of close relatives 14 years of age or the care of close relatives, the chairperson of the Examination Board shall, upon application by the student, allow the student to take the examination in an equivalent manner. Close relatives are children, parents, grandparents, spouses and life partners. The chairperson of the Examination Board decides in consultation with the responsible examiner how the examination performance is to be carried out. The chairperson of the Examination Board decides on an appropriate measure to compensate for a disadvantage. Suitable measures to compensate for disadvantages include, for example, extended processing times, processing breaks, use of other media, use of other examination rooms within the university or another examination date. The same applies to bonus performances.

§ 6

Written exams

(1) In written examinations, the student shall prove that he/she can solve tasks and work on topics on the basis of the necessary basic knowledge in a limited time and with limited aids using the common methods of the subject of study. If written examinations or individual tasks are set according to § 5 Paragraph 1 Sentence 2, the student shall demonstrate the knowledge required to achieve the module objective. To this end, he or she must indicate which of the answers presented with the assignments he or she considers to be correct.

(2) Written examinations, the passing of which is a prerequisite for the continuation of studies, shall as a rule, but at least in the case of the last resit examination, be assessed by two examiners. The grade shall be the average of the individual grades pursuant to Section 10, Paragraph 1; only the first decimal place after the comma shall be taken into account, all other places shall be deleted without rounding. The assessment procedure shall not exceed four weeks.

(3) The duration of the written examinations is specified in each case in the module descriptions and may not be less than 90 minutes and not exceed 240 minutes.

§ 7

Oral examination performances

(1) By means of oral examinations, the student shall demonstrate the competence to recognise the interrelationships of the examination area and to be able to classify special questions in these interrelationships. Furthermore, it is to be determined whether the student has a basic knowledge corresponding to the state of the studies.

(2) Oral examinations are generally taken in front of at least two examiners (peer examination) or in front of one examiner in the presence of an expert assessor (§ 17) in accordance with the module descriptions as a group examination with up to four persons or as an individual examination.

(3) Oral examinations have a duration of 15 to 45 minutes. The concrete duration is specified in the respective module descriptions.

(4) The essential items and results of the oral examination performance shall be recorded in a protocol. The result shall be made known to the student following the oral examination performance.

(5) Students who wish to take the same examination at a later date shall be admitted as listeners within the framework of the spatial conditions, unless the student to be examined objects. Admission does not extend to the discussion and announcement of the examination results.

§ 8 Papers

(1) By means of presentations, the student shall demonstrate the competence to prepare special questions and also to be able to present them according to the assignment.

(2) § 6 Paragraph 2 shall apply accordingly. The lecturer responsible for the course in which the paper is handed out and, if applicable, presented, shall be one of the examiners. If the paper is presented, § 7 Paragraph 4 Sentence 1 shall apply accordingly.

(3) The time required to complete the papers is specified in the respective module descriptions and amounts to a maximum of 30 hours. Derived from this, the deadline for submission or presentation is to be determined within the scope of the assignment.

§ 9 Other examination performances

(1) The student shall achieve the specified performance by means of other controlled examination performances (other examination performances) which can be assessed according to the same standards and which are specifically specified in the module descriptions, including the requirements as well as the duration or the temporal scope. If a time scope is specified, the deadline for submission is to be determined from this within the framework of the assignment. Other examination performances are collections of minutes, papers, presentations, written tests, oral tests and language tests.

(2) The other examination performances according to paragraph 1 are defined as follows:

1. In protocol collections, the student should be able to demonstrate the competence to document and critically reflect on the course of practical tasks from technical or analytical issues and the results achieved in an appropriate manner.
2. In assignments, the student should prove by solving written exercises, by working on electronic learning modules or by limited experimental work that the student has mastered sub-tasks or can solve analytical tasks and is capable of interpreting the results accordingly.
3. The presentation is an oral or media-supported lecture by one student or, according to the assignment, in the case of definable individual contributions by several students, in which results achieved through independent work are presented in a structured form, usually using visual aids.
4. In written tests, students are to demonstrate the basic knowledge of the subject by solving smaller tasks in a limited amount of time.
5. In oral tests, students are to prove their basic knowledge of the subject by answering definable questions.
6. Language tests are shorter oral and/or written performances in which the level of knowledge on a specific topic and the ability to express this in the foreign language are tested.

(3) For other written examinations, § 6 paragraph 2 shall apply accordingly. For other non-written examinations, § 7 paragraph 2 and 4 shall apply accordingly.

§ 10

Assessment of the examination performances, formation and weighting of the grades, Announcement of the examination results

(1) The marks for the individual examination performances shall be determined by the respective examiners, taking into account any bonus points acquired in accordance with Paragraph 2. The following grades shall be used for this purpose:

- 1 = very good= an excellent performance;
- 2 = good= a performance that is significantly above the average requirements;
- 3 = satisfactory= a performance that meets average requirements;
- 4 = sufficient= a performance that still meets the requirements despite its shortcomings;
- 5 = not sufficient= a performance that no longer meets the requirements due to significant deficiencies.

For differentiated assessment, individual grades can be raised or lowered by 0.3 to intermediate values; the grades 0.7, 4.3, 4.7 and 5.3 are excluded. An individual examination performance is only assessed as "passed" or "failed" (ungraded examination performance) if the corresponding module description provides for this by way of exception. Ungraded examination performances graded with "passed" are not included in the further grade calculation; ungraded examination performances graded with "failed" are included in the further grade calculation with the grade 5 (not sufficient).

(2) Bonus points can be acquired voluntarily for assigned examination achievements through certain study achievements (bonus achievements). Bonus points can replace a maximum of 6 % of the total number of points of the assigned examination performance in addition to the assessment points acquired by the student, if the examination performance was assessed with at least "sufficient" (4.0). The type and structure of the bonus performances as well as their assignment to an examination performance are to be regulated in the module descriptions. The number of bonus points to be acquired through a bonus performance as well as the total number of points to be achieved in the associated examination performance shall be announced at the beginning of each semester as is customary in the faculty. Bonus points earned are only taken into account in the examination date that is binding for the student following the bonus performance.

(3) The module grade results from the weighted average of the grades of the examination performances of the module according to the module description, if applicable. Only the first decimal place after the comma is taken into account, all other places are deleted without rounding. The module grade with an average is

- up to and including 1.5 = very good,
- from 1.6 to 2.5 inclusive = good,
- from 2.6 to 3.5 inclusive = satisfactory,
- from 3.6 up to and including 4.0 = sufficient,
- from 4.1 = not sufficient.

If a module examination is not passed due to a pass-relevant examination performance according to If a module examination is not passed due to a pass-relevant examination performance in accordance with § 12 Paragraph 1 Sentence 2, the module grade is "insufficient" (5.0).

(4) An overall grade is calculated for the Bachelor's examination. The final grade of the Bachelor's examination shall include the final grade of the Bachelor's thesis with a 30-fold weighting

and the module grades weighted according to the credit points pursuant to § 25, paragraph 1. The final grade of the Bachelor's thesis is made up of the grade of the Bachelor's thesis with quadruple weight and the grade of the colloquium with single weight. Paragraph 3, sentences 2 and 3 shall apply accordingly to the overall and final grades.

(5) The overall grade of the Bachelor's examination is additionally shown as a relative grade according to the ECTS grading scale.

(6) The modalities for the announcement of the examination results shall be communicated to the students through the usual faculty publication.

§ 11

Default, withdrawal, deception, breach of order, waiver

(1) An examination performance shall be deemed to have been assessed as "insufficient" (5.0) or "failed" if the student misses an examination date that is binding for him/her without good reason or withdraws without good reason. The same applies if an examination performance is not completed within the specified processing time.

(2) The reason asserted for the withdrawal or the failure to attend must be notified to the examination office in writing without delay and must be made credible. In the case of illness of a student, a medical certificate or, in cases of doubt, an official medical certificate must be submitted. Insofar as compliance with deadlines for the initial registration for examinations, the repetition of examinations, the reasons for missing examinations and compliance with processing times for examination papers are affected, the illness of the student shall be deemed equivalent to the illness of a child for whom he/she is predominantly solely responsible. If the reason is recognized, a new date shall be set. In this case, the examination results already available shall be taken into account. The Examination Board decides on the approval of the withdrawal or the recognition of the reason for missing the examination.

(3) If the student attempts to influence the result of his/her examination performance by deception, for example by bringing or using unauthorized aids, the examination performance in question shall be deemed to have been assessed as "insufficient" (5.0) on the basis of a corresponding determination by the Examination Board. Accordingly, ungraded examinations are deemed to have been assessed as "failed". A student who disturbs the orderly course of the examination can be excluded from the continuation of the examination by the respective examiner or the respective invigilator; in this case, the examination performance is deemed to be graded as "insufficient" (5.0) or "failed". In serious cases, the Examination Board may exclude the student from taking further examinations.

(4) If the student has deceived in an examination and this fact only becomes apparent after the assessment has been announced, the assessment of the examination may be changed by the examination committee to "not sufficient" (5.0) or "not passed" and thereupon the grade of the module examination may also be changed in accordance with § 10, paragraph 3. If the requirements for taking a module examination were not fulfilled without the student intending to deceive, this defect shall be remedied by passing the module examination. If the student has intentionally obtained the taking of a module examination wrongly, the Examination Board may declare the module examination "insufficient" (5.0) or "failed". In serious cases, the Examination Board may exclude the student from taking further examinations.

(5) Paragraphs 1 to 4 apply accordingly to bonus performances, the Bachelor's thesis and the colloquium.

(6) If the student declares in writing to the examination office that he/she waives the completion of an examination, this examination shall be deemed to have been assessed as "insufficient" (5.0) or "failed" in the respective examination attempt. The waiver is irrevocable and requires admission according to § 4.

§ 12

Pass and fail

(1) A module examination is passed if the module grade is at least "sufficient" (4.0). In the cases specified by the module descriptions, the passing of the module examination is furthermore dependent on the assessment of individual examination performances with at least "sufficient" (4.0) and on a further passing requirement, namely the completion of an excursion. If the module examination is passed, the credit points assigned to the module in the module description are acquired.

(2) The Bachelor's examination is passed if the module examinations and the Bachelor's thesis as well as the colloquium have been passed. The Bachelor's thesis and the colloquium are passed if they have been assessed with at least "sufficient" (4.0).

(3) A module examination is not passed if the module grade is not at least "sufficient" (4.0). Bachelor's thesis and colloquium are not passed if they have not been assessed with at least "sufficient" (4.0).

(4) A module examination is definitively failed if the module grade is not at least "sufficient" (4.0) and its repetition is no longer possible. Bachelor's thesis and colloquium are finally failed if they have not been assessed with at least "sufficient" (4.0) and a repetition is no longer possible.

(5) The Bachelor's examination is failed or definitively failed if either a module examination, the Bachelor's thesis or the colloquium is failed or definitively failed. Section 3, paragraph 1 remains unaffected. In the case of a final failure of a module examination of the compulsory elective area, the final failure of the Bachelor's examination shall only be decided in accordance with § 16, paragraph 4, if the student does not change his/her choice within one month after the announcement of the result of the module examination or does not make a change of choice in accordance with § 6 Paragraph 2 Sentence 4 Study Regulations is no longer possible. If the student has definitively failed the Bachelor's examination, he or she loses the examination entitlement for all components of the Bachelor's examination according to § 2, sentence 1.

(6) If the student has not passed a module examination or if the Bachelor's thesis or the colloquium was graded worse than "sufficient" (4.0), the student shall be informed whether and, if so, to what extent and within what period of time the subject in question can be repeated.

(7) If the student has not passed the Bachelor's examination, a certificate shall be issued to him/her on application and on presentation of the relevant evidence and the exmatriculation certificate, which contains the examination components taken and their assessment as well as, if applicable, the examination components still missing and shows that the Bachelor's examination has not been passed.

§ 13
Free trial

(1) Module examinations can also be taken before the semesters specified in the study schedule, provided that the admission requirements are met.

(2) At the request of the student, module examinations or examinations graded at least "sufficient" (4.0) can be repeated once at the next regular examination date in order to improve the grade. In these cases, the better grade counts. The form and deadline of the application are determined by the Examination Board and announced in the usual manner of the faculty. After the expiry of the next regular examination date or the application deadline, an improvement of the grade is no longer possible. When repeating a module examination to improve the grade, examination performances that were assessed with at least "sufficient" (4.0) in the free attempt are credited upon application by the student; examination performances that were assessed with "passed" in the free attempt are credited ex officio.

(3) A module examination that has not been passed in the free attempt shall be deemed not to have been taken. Examination performances which were assessed with at least "sufficient" (4.0) or with "passed" are credited in the following examination procedure. If the possibility of grade improvement according to Paragraph 2 is used for examination performances, the better grade shall be credited.

(4) In addition to § 3, paragraph 4, periods of interruption of studies due to a prolonged illness of the student or a child to be cared for by the student as well as periods of study abroad shall not be taken into account for the application of the free attempt regulation.

§ 14
Repetition of module examinations

(1) Failed module examinations can be repeated once within one year after completion of the first examination attempt. The period begins with the announcement of the first failure of the module examination. After expiry of this period, they are deemed to have been failed again.

(2) A second resit examination can only be taken at the next possible examination date. After that, the module examination is deemed to have been definitively failed. A further repeat examination is not permitted.

(3) The repetition of a failed module examination consisting of several examinations shall only include the examinations not graded with at least "sufficient" (4.0) or with "passed". When repeating a failed module examination that comprises one or more optional examination performances, students are not bound to the previous choice of an examination performance that was not assessed with at least "sufficient" (4.0) or with "passed".

(4) The repetition of a passed module examination is only permitted in the case regulated in § 13 Paragraph 2 and includes all examination performances.

(5) Failed attempts of the module examination from the same or other degree programmes are carried over.

§ 15

Crediting of study and examination achievements, periods of study and qualifications acquired outside a higher education institution

(1) Study and examination achievements which have been completed at a higher education institution shall be credited upon application by the student, unless there are significant differences with regard to the competences acquired. Further agreements of the Technische Universität Dresden, the German Rectors' Conference, the Standing Conference of the Ministers of Education and Cultural Affairs as well as those ratified by the Federal Republic of Germany shall be observed, if applicable.

(2) Qualifications acquired outside of a university shall be credited upon application of the student if they are equivalent. Equivalence is given if the content, scope and requirements essentially correspond to parts of the study programme in the Bachelor's degree programme in Materials Science at the Technische Universität Dresden. No schematic comparison is to be made, but rather an overall consideration and evaluation.

(3) Study and examination credits obtained in the Federal Republic of Germany in the same degree programme shall be transferred ex officio.

(4) Study and examination achievements completed at a higher education institution may be credited despite substantial differences if, due to their contents and qualification objectives, they correspond overall to the sense and purpose of an elective option available in this degree programme and therefore form a structural equivalent. The actual achievements are shown in the transcript.

(5) If study and examination achievements are credited or transferred in accordance with paragraph 1, 3 or 4 or qualifications acquired outside a higher education institution are credited in accordance with paragraph 2, the corresponding periods of study shall also be credited ex officio. Grades shall - insofar as the grading systems are comparable - be taken over and included in the further formation of grades. In the case of incomparable grading systems, the remark "passed" shall be included; they shall not be included in the further formation of grades. The credit will be marked on the certificate.

(6) Credit shall be awarded by the Examination Board. The student must submit the required documents. From this point on, the crediting procedure may not exceed a period of two months. In the event of non-credit, § 16 Paragraph 4 Sentence 1 shall apply.

§ 16 Audit Committee

(1) An Examination Board shall be formed for the Bachelor's degree programme in Materials Science to conduct and organise the examinations and for the tasks assigned by the examination regulations. The Examination Board consists of five professors, two research assistants and two students. With the exception of the student members, the term of office is three years. The term of office of the student members is one year.

(2) The chairperson, the deputy chairperson as well as the other members and their deputies shall be appointed by the Faculty Council of the Faculty of Mechanical Science and Engineering, the student members upon proposal of the student council. As a rule, the chairperson conducts the business of the Examination Board.

(3) The Examination Board shall ensure that the provisions of the examination regulations are observed. It regularly reports to the faculty on the development of examination and study times, including the actual processing times for the Bachelor's thesis, as well as on the distribution of module and overall grades. The Examination Board gives suggestions for reforming the examination regulations, the study regulations, the module descriptions and the study schedule.

(4) The student concerned shall be informed in writing of any adverse decisions, the reasons for them and instructions on how to appeal. As the examination authority, the Examination Board shall decide on appeals within a reasonable period of time and issue the appeal notices.

(5) The Examination Board may admit guests to its meetings without voting rights. The members of the Examination Board shall have the right to attend the taking of the examinations and the colloquium.

(6) The members of the Examination Board and their deputies shall be bound by official secrecy. If they are not public servants, they shall be bound to secrecy by the chairperson.

(7) Based on the decisions of the Examination Board, the examination office organizes the examinations and administers the examination files.

§ 17

Examiners and assessors

(1) The Examination Board shall appoint university lecturers and other persons who are authorized to conduct examinations according to Land law as examiners. Only persons who have successfully passed the corresponding Bachelor's examination or an at least comparable examination shall be appointed as assessors.

(2) The student may propose the supervisor for his/her Bachelor's thesis and the examiners for oral examinations and the colloquium. The suggestion does not constitute a claim.

(3) Section 16 (6) shall apply mutatis mutandis to the examiners and assessors.

§ 18

Purpose of the Bachelor's examination

Passing the Bachelor's examination constitutes the professionally qualifying degree of the degree programme. This establishes that the student has an overview of the subject-related contexts, has the ability to apply scientific methods and findings, and has acquired the thorough specialist knowledge necessary for the transition to professional practice.

§ 19

Purpose, issue, submission, assessment and repetition of the Bachelor's thesis and colloquium

(1) The Bachelor's thesis shall show that the student is able to independently work on problems of the field of study within a given period of time according to scientific methods.

(2) The Bachelor's thesis can be supervised by a university lecturer or another person author-

ized to conduct examinations according to the Saxon Higher Education Freedom Act (Sächsisches Hochschulfreiheitsgesetz), as long as this person works at the Faculty of Mechanical Science and Engineering at the Technische Universität Dresden. If the Bachelor's thesis is to be supervised by a person who works outside the Faculty of Mechanical Science and Engineering and is authorized to do so, the approval of the chairperson of the Examination Board is required.

(3) The topic of the Bachelor's thesis shall be issued by the Examination Board. The topic and the date of issue are to be recorded. The student may express wishes regarding the topic. At the request of the student, the Examination Board shall arrange for the timely issue of the topic of the Bachelor's thesis. The topic shall be issued by the Examination Board ex officio at the latest at the beginning of the semester following the completion of the last module examination.

(4) The topic can only be returned once and only within two months after issue. However, the topic may only be returned for a repetition of the Bachelor's thesis if the student has not made use of this option so far. If the student has returned the topic, a new one shall be issued to him/her immediately in accordance with Paragraph 3, Sentences 1 to 3.

(5) The Bachelor's thesis may also be submitted in the form of a group thesis if the individual contribution to be assessed as the student's Bachelor's thesis is clearly distinguishable and assessable on the basis of the specification of sections, page numbers or other objective criteria that enable a clear delimitation and fulfils the requirements according to paragraph 1.

(6) The Bachelor's thesis shall be submitted in German in two typed and bound copies as well as in digital text form on a suitable data carrier to the examination office within the time limit; the date of submission shall be recorded. In suitable cases, the Bachelor's thesis may be submitted in English upon application by the student to the Examination Board. When handing in the thesis, the student must declare in writing whether he/she has written his/her thesis - in the case of a group thesis his/her correspondingly marked part of the thesis - independently and has not used any sources and aids other than those stated.

(7) The Bachelor's thesis is to be graded individually by two examiners in accordance with Section 10, Paragraph 1, Sentences 1 to 3. The supervisor of the Bachelor's thesis shall be one of the examiners. The assessment procedure should not exceed four weeks.

(8) The grade of the Bachelor's thesis is the average of the two individual grades of the examiners. If the individual grades of the examiners differ by more than two grade levels, the average of the two individual grades is only decisive if both examiners agree. If this is not the case, the Examination Board shall obtain an assessment from another examiner. The grade of the Bachelor's thesis is then formed from the average of the three individual grades. Section 10, Paragraph 3, Sentences 2 and 3 shall apply accordingly.

(9) If one examiner has assessed the Bachelor's thesis with at least "sufficient" (4.0) and the other examiner with "insufficient" (5.0), the Examination Board shall obtain an assessment from another examiner. This examiner decides whether the Bachelor's thesis is passed or not. If it is considered to have been passed, the grade of the Bachelor's thesis shall be calculated from the average of the individual grades of the evaluations voting for passing, otherwise from the evaluations voting for failing. Section 10, Paragraph 3, Sentences 2 and 3 shall apply accordingly.

(10) A failed Bachelor's thesis can be repeated once within one year. After expiry of this period, it is deemed to have been failed again. A second repetition is only possible at the next possible examination date, after which it is deemed to have been definitively failed. A further repetition or the repetition of a passed Bachelor's thesis is not permitted.

(11) The student must explain his/her Bachelor's thesis in a public colloquium before the thesis supervisor as examiner and an assessor. Through the colloquium, the student is to prove that he or she can present the result of the Bachelor's thesis conclusively and discuss it professionally. Additional examiners may be consulted. Paragraph 10 as well as § 7 Paragraph 4 and § 10 Paragraph 1 Sentences 1 to 3 apply accordingly.

§ 20

Certificate and Bachelor's degree

(1) The student shall receive a certificate of the passed Bachelor's examination immediately, if possible within four weeks. The certificate of the Bachelor's examination shall include the module evaluations according to § 25 paragraph 1 as well as the corresponding credit points and, if applicable, credit marks, the topic of the Bachelor's thesis, its final grade and supervisor as well as the overall grade according to § 10 paragraph 4 and 5. The grades of the individual examinations are shown on an enclosure to the transcript. At the request of the student, the evaluations of additional modules and the subject study duration required to complete the Bachelor's examination shall be included in the certificate and the evaluations of examination performances in additional modules shall be indicated on the supplement.

(2) At the same time as the Bachelor's degree certificate, the student receives the Bachelor's degree certificate with the date of the certificate. This certifies the award of the Bachelor's degree. The Bachelor's degree certificate is signed by the chairperson of the Examination Board, bears the handwritten or typewritten signature of the rector and bears the seal of the Technische Universität Dresden. In addition, translations of the certificate and the transcript in English are handed out to the student.

(3) The certificate shall bear the date of the day on which the last examination component pursuant to § 12 paragraph 2 has been completed. It is signed by the chairperson of the Examination Board and the dean of the Faculty of Mechanical Science and Engineering and bears the seal of the Technische Universität Dresden.

(4) The Technische Universität Dresden issues a Diploma Supplement (DS) according to the "Diploma Supplement Model" of the European Union/Council of Europe/UNESCO. The text agreed between the Standing Conference of the Ministers of Education and Cultural Affairs of the State in the Federal Republic of Germany and the German Rectors' Conference shall be used as the representation of the national education system (DS section 8).

§ 21

Invalidity of the Bachelor's examination

(1) If the student has cheated in an examination and this fact only becomes known after the certificate has been issued, the assessment of the examination may be changed in accordance with § 11 Paragraph 4 Sentence 1. If necessary, the module examination can be declared "insufficient" (5.0) and the Bachelor's examination "failed" by the Examination Board. The same applies to the Bachelor's thesis and the colloquium.

(2) If the requirements for taking a module examination were not fulfilled without the student intending to deceive, and if this fact only becomes known after the certificate has been issued, this defect shall be remedied by passing the module examination. If the student has intentionally

obtained the passing of a module examination wrongfully, the Examination Board may declare the module examination "insufficient" (5.0) and the Bachelor's examination "failed". The same applies to the Bachelor's thesis and the colloquium.

(3) The incorrect certificate and its translation shall be confiscated by the chairperson of the Examination Board and, if necessary, reissued. The Bachelor's certificate, all translations and the Diploma Supplement shall also be withdrawn with the incorrect certificate if the Bachelor's examination was declared "failed" due to deception. A decision according to paragraph 1 and paragraph 2 sentence 2 or 3 is excluded after a period of five years from the date of the certificate.

§ 22

Inspection of the examination documents

Within one year after completion of the examination procedure, the student shall be granted access to his/her written examination papers, the related reports and the examination records within a reasonable period of time upon request.

Section 2: Subject-specific provisions

§ 23

Duration, structure and scope of studies

(1) The standard period of study according to § 1 is six semesters.

(2) The degree programme is modular and concludes with the Bachelor's thesis and the colloquium.

(3) By passing the Bachelor's examination, a total of 180 credit points are acquired in the modules as well as the Bachelor's thesis and the colloquium.

§ 24

Subject-specific requirements for the Bachelor's examination

(1) Prior to the colloquium, the Bachelor's thesis must have been assessed with a grade of at least "sufficient" (4.0).

(2) At least 120 credit points must have been acquired before the topic of the Bachelor's thesis is issued.

§ 25

Subject, type and scope of the Bachelor's examination

(1) The Bachelor's examination comprises all module examinations of the compulsory area and those of the selected modules of the compulsory elective area as well as the Bachelor's thesis and the colloquium.

(2) Modules of the compulsory area are

1. Fundamentals of Mathematics
2. General and Inorganic Chemistry
3. Business Administration and Language Skills
4. Physics
5. Engineering Mechanics
6. Fundamentals of Materials Science
7. Engineering Mathematics
8. Organic and Physical Chemistry
9. Fundamentals of Electrical Engineering
10. Special Topics of Mathematics
11. Design Theory
12. Computer Science
13. Materials Production and Manufacturing Technology
14. Materials Testing and Materials Diagnostics
15. Metallic Materials
16. Advanced Ceramic Materials
17. Polymers and Biomaterials
18. Powder Metallurgy and Sintered Materials
19. Materials Physics and Materials Chemistry
20. Advanced Course Materials Science
21. General and Engineering-Specific Qualifications in Materials Science

(3) Modules of the compulsory elective area are

22. Computer Simulation in Materials Science
 23. Metallography
 24. Characterisation of Soft Materials
 25. Dental Materials
 26. Corrosion and Corrosion Protection
- of which modules amounting to 10 credit points are to be selected.

(4) The required examinations assigned to the modules, their type and design are specified in the module descriptions. Unless otherwise specified in the module descriptions, the subject of the examinations is the content and the competences to be acquired in the module.

(5) The student may take an examination in modules other than those provided for in paragraph 1 (additional modules). These module examinations can be optionally taken from the entire range of modules offered by the Technische Universität Dresden or a cooperating university after consultation with the respective provider or the examiner. They are not included in the calculation of the student workload and are not taken into account in the formation of the overall grade.

§ 26

Processing time of the Bachelor's thesis and duration of the colloquium

(1) The processing time of the Bachelor's thesis is 8 weeks, 9 credit points are acquired. The topic, task and scope of the Bachelor's thesis are to be limited by the supervisor in such a way that the deadline for submission of the Bachelor's thesis can be met. In individual cases, the Examination Board may exceptionally extend the processing time by a maximum of four weeks upon justified application by the student; the number of credit points remains unaffected by this.

(2) At the request of the student, the Examination Board may allow the Bachelor's thesis to be written during the course of study if the topic requires it. In this case, the Examination Board shall extend the deadline for submitting the Bachelor's thesis accordingly. If the Bachelor's thesis is written during the course of study, it must be submitted no later than 7 weeks after completion of the last module examination. Paragraph 1 sentence 3 remains unaffected.

(3) The colloquium has a duration of 60 minutes. One credit point is earned.

§ 27 **Bachelor's degree**

If the Bachelor's examination is passed, the university degree "Bachelor of Science" (abbreviated: "B. Sc.") is awarded.

Section 3: Final provisions

§ 28

Entry into force, publication and transitional provisions

(1) These examination regulations shall enter into force on 1 June 2019 and shall be published in the Official Announcements of the Technische Universität Dresden.

(2) It applies to all students newly enrolled in the Bachelor's degree programme in Materials Science in the winter semester 2019/2020 or later.

(3) For students enrolled earlier than the winter semester 2019/2020, the examination regulations for the Bachelor's degree programme in Materials Science previously valid for them before the entry into force of these regulations shall continue to apply.

(4) These examination regulations shall apply from the winter semester 2020/2021 for all students enrolled in the Bachelor's degree programme in Materials Science.

(5) In the case of transfer according to Paragraph 3 or Paragraph 4, the module examinations already completed, including the grades, shall be transferred ex officio, and individual examination performances shall also be transferred ex officio on the basis of equivalence tables which are determined by the Examination Committee and announced in the customary manner of the faculty. With the exception of § 14 Paragraph 5, module examinations and examinations not graded with at least "sufficient" (4.0) or "passed" shall not be transferred. As a rule, the module grade is not recalculated on the basis of the grades of exclusively transferred examinations; exceptions can be found in the equivalence tables.

Issued on the basis of the resolution of the Faculty Council of the Faculty of Mechanical Science and Engineering of 19 December 2018 and the approval of the Rectorate of 19 February 2019.

Dresden, 28 April 2019

The Rector
of the Technical University of Dresden

Prof. Dr.-Ing. habil. DEng/Auckland Hans Müller-Steinhagen