Examination regulations
for the Master’s programme
Advanced Quantum Physics
at the Technical University of Kaiserslautern
dated 22nd May 2017

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Section I: General information about the study programme

§ 1 Scope, type of study programme, purpose of the examination, academic degree

(1) These regulations regulate the procedure, the requirements, the access and the conclusion of the examination for the Advanced Quantum Physics Master’s programme (hereinafter referred to as "Master’s programme") at the Technical University of Kaiserslautern.

(2) The Master’s programme is a research-oriented scientific study programme, which leads to a second professional academic qualification. It is part of a complementary study programme and aims to capacitate scientific work and methodology, impart theoretical-analytical abilities and to enable the students to openly and creatively prepare for new circumstances in professional life and thus categorise scientific findings critically and make use of them in a target-oriented manner.

(3) The Master’s programme should help in determining whether the student has acquired the professional, methodical and interdisciplinary competencies necessary for handling new complex tasks and problems as well as for independent work in research or in a strategy-oriented occupational field, and whether he/she can use these competencies to complete professional tasks.

(4) After having successfully completed and passed the Master’s examination, the Technical University of Kaiserslautern awards the academic degree of “Master of Science” (M.Sc.). This degree may bear the name of the graduate.

(5) The Master’s programme is taught in English.

(6) In addition to these regulations, a curriculum and the module manual are available for orientation and for planning the study programme, the knowledge of which is essential for the study programme. The curriculum informs about the contents, the areas of focus and requirements, especially the provided courses, and is a recommendation for an appropriate structure of the study programme within the standard period of study. The module manual comprises detailed descriptions of the course content, the competencies to be acquired, the mandatory examinations, the forms of instruction, the temporal scope (in credit points [LP] such as in semester hours [SWS])
§ 2 Admission requirements

(1) The Master’s programme is open to students, who

1. meet the general requirements in accordance with the registered regulations of the Technical University of Kaiserslautern,

2. have successfully passed the Bachelor’s examination in Physics at the Technical University of Kaiserslautern or at least have equivalent credits and test performances, which include a professional degree, and

3. account for the linguistic suitability (Para 3).

While determining the equivalence in no. 2, no schematic comparison must be made, but a general overview with regard to the chosen study programme; otherwise, the current examination regulations for the Bachelor’s programme in Physics at the Technical University of Kaiserslautern apply correspondingly.

(2) In justified exceptional cases, even those course applicants can be admitted to the Master’s programme upon approval by the examination board, who still need to complete performances in the extent of maximum 30 credit points in order to successfully complete the Bachelor’s examination or an equivalent final examination (Paragraph 1 Sentence 1 no. 2), whose linguistic suitability (Paragraph 3 Sentence 3) is determined. The enrolment becomes invalid if the admission requirements for the Master’s programme are not fulfilled by the end of the first semester.

(3) Course applicants, who have not acquired their study qualification from a German-speaking institution, must have adequate German language skills as per the administrative regulations of the President of the "German language skills for students in international study programmes at the Technical University of Kaiserslautern (DSI)"; further details are provided in the registered regulations of the TU Kaiserslautern. Sufficient knowledge of the English language is only available if

1. the university entrance qualification as per § 65 Paragraph 1 Higher Education Act (hereinafter "HochSchG") has been obtained in Germany, or if the qualification acquired in Germany is at least equivalent, with regard to the training in English,

2. the study programme evidenced by Paragraph 1 Sentence 1 no. 2 was carried out predominantly in English,

3. a test result as per TOEFL with at least 213 points (written 550 points, Internet-based 80 points) or at least an equivalent examination result is proven

4. Common European Framework of Reference for Languages with B 2 or

5. it is determined by the examination board.

(4) Another prerequisite for admission to the Master’s programme is that the right to examination for this study programme is not yet lost. In this regard, a corresponding declaration and proofs, if
necessary, must be submitted in the course of the enrolment, at the latest during the first registration of examinations. Further details are provided in §§ 6 and 11.

(5) The admission is subject to conditions (§ 2a).

(6) For course applicants, who are not admitted or are only admitted subject to conditions, § 19 Paragraph 4 applies accordingly.

(7) The participation in individual courses may be limited, if the number of participants needs to be limited due to the nature or purpose of these courses or for other reasons of teaching and research. If the number of participants in a particular course needs to be limited due to its nature or purpose and the number of interested students exceeds the capacity, the examination board regulates admission upon request of the course supervisor. In this case, the students must be taken into consideration in such a way that they must be chosen in order to avoid unreasonable hardships, provided that they are instructed to attend this course according to the curriculum and their course of studies at that time.

§ 2a Admission subject to conditions

(1) If a course applicant has passed a professional degree examination, which is not, however, equivalent according to § 2 Paragraph 1 Sentence 1 no. 2, the applicant may be admitted subject to conditions, under the provisions of Paragraph 2 Sentence 1. As determined by the examination board, the conditions should prove the credits and test performances still missing, which result in equivalence as per § 2 Paragraph 1 no. 2 together with the degree examination.

(2) The conditions admit those who

1. meet the general requirements in accordance with the registered regulations of the Technical University of Kaiserslautern,
2. have successfully passed a professional degree examination,
3. who are linguistically suited for the study programme as per § 2 Paragraph 1 number 3 and
4. must substantiate prove a maximum of 30 LP as per the current examination regulations for the Bachelor’s programme in Physics in the Physics Department of the Technical University of Kaiserslautern, as per the determination of the examination board in pursuance of the purpose of the conditions (Paragraph 1 Sentence 2).

(3) Admission subject to conditions is impermissible if more than 30 LP as per the current examination regulations for the Bachelor’s programme in Physics at the Technical University of Kaiserslautern must be obtained, as per the determination of the examination board in pursuance of the purpose of the conditions (Paragraph 1 Sentence 2). Admission subject to conditions is also impermissible if the course applicant was already admitted under conditions to another Master’s programme in the Physics Department and has failed to fulfil these conditions.

(4) The examination board determines which credits and test performances the course applicant must obtain to fulfil the conditions.
(5) A test performance that has been failed or not been passed with the required minimum grade in the framework of the conditions can be repeated once. All conditions including re-examinations, if necessary, must be met within the first four examination periods.

(6) If one of the conditions is not fulfilled or cannot be fulfilled in time, the student must be excluded from performing further credits and test performances and his/her re-registration must be rejected. The student receives a notification regarding this; § 19 Paragraph 4 applies correspondingly. The performances rendered in the framework of the conditions must be included in the notification as per § 21 Paragraph 7.

(7) Furthermore, the provisions of the current examination regulations for the Bachelor's programme in Physics at the Technical University of Kaiserslautern must apply mutatis mutandis to the credits and test performances in the framework of the conditions.

§ 3 Beginning of the study programme and standard period of study

(1) The admission for the study programme can take place in the winter semester and in the summer semester.

(2) The standard period of study comprises four semesters.

(3) In the interests of the compliance with the standard period of study, the study programme is created such that all credits and test performances can be completed until the end of the fourth semester.

§ 4 Master's examination

The Master's examination comprises all credits and test performances necessary for the completion of the Master's degree. Modules (§ 5) are assigned for credits and test performances. The application for admission to the Master's examination must be provided with the registration to the first module or sub-module examination. Participation in the Master's examination assumes that the student is registered lawfully and is not on leave.

§ 5 Modularised study set-up, Credit Transfer System, Credits

(1) The study programme is classified in sections and modules (Paragraph 3). Sections summarise modules including the Master’s thesis into thematic or structural units. This study programme is classified in the following sections:

<table>
<thead>
<tr>
<th>Section</th>
<th>Modules included</th>
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<tr>
<td>Quantum technology</td>
<td>Quantum Technologies, Laboratory Course</td>
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<tr>
<td>Many-particle quantum systems</td>
<td>Many-body quantum systems</td>
</tr>
<tr>
<td>Elective range</td>
<td>Science Electives, General Electives</td>
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At least 120 credit points (LP) must be acquired in the framework of the Master’s programme. Normally, 30 credits are allotted to each semester. The Master’s examination consists of the following parts:

1. Mandatory modules equivalent to 40 credit points,
2. Optional compulsory modules equivalent to 36 credit points,
3. Elective modules equivalent to 14 credit points,
4. Master’s thesis equivalent to 30 credit points,

Further details are given in Appendix 1.

Modules contain one or more thematic and chronologically coordinated and self-contained courses (e.g. lectures, internships, projects, seminars, practical laboratory courses, excursions, exercises, etc.) and include self-study time. The modules also include the thesis. The contents of a module must be determined such that they can generally be imparted within one or two semesters. The Department as well as the cooperating institutions verify the each range of courses required for each module. There are three types of modules:

1. Mandatory modules: They must be attended by all students of a study programme or a branch of study, without there being a choice regarding the courses within the module. The credits and test performances associated with these modules must be passed.

2. Optional compulsory modules: The students can choose one or more modules equivalent to 36 LP within a thematic and limited scope, and must pass these modules. Within an optional compulsory module, this also applies correspondingly to selective courses. Modules to be attended mandatorily, for which there is an option with regard to courses, are also classified as optional compulsory modules. On registration (§ 11) for the module or for the first module examination, the optional compulsory module is considered as selected. Only those optional compulsory modules can be selected which are not already a part of the professional degree as per § 2 Paragraph 1 no. 2.

3. Elective modules: The students have unrestricted choice – generally within a defined module or course catalogue – and in case of failing a module, can replace it by another module. Only those elective modules can be selected, which are not already a part of the professional degree as per § 2 Paragraph 1 no. 2.

Credit points (LP), which correspond to the approximate time spent, are awarded for each passed module, which is provided to all students for attending all courses of the module, the preparation and follow-up of the subject matter, obtaining the required credits according to Paragraph 6, the exam preparation, the passing of the module examination, the professional internship and the Master’s thesis as well as all other performances. The standards for the awarding of credit points correspond to the European Credit Transfer and Accumulation System (ECTS). One credit point (LP) corresponds to a performance that require a workload of about 30 hours, whereby a workload of an average of 900 hours is taken into consideration per semester.
(5) Prerequisite for the awarding of credit points for modules is basically the successful completion of the module. The awarding can be coupled with the regular and active participation in the courses of the module. The conditions for the regular and active participation are made public at the beginning of the course (e.g. in module manual).

(6) The successful completion of a module is conditional to the passing of the module examination and to obtaining credits, insofar as this is regulated in Appendix 1. Credits primarily serve the individual performance monitoring, their grading it not entered in the module grade. Credits can be coupled with the regular and active participation in the courses. The credit is achieved if a minimum “passed” or “satisfactory” (grade 4.0) score as per § 17 Paragraph 1 is attained in a performance review. Such performance reviews can include multiple parts and primarily comprise proctored examinations, oral examinations, reports, portfolios, colloquia, presentations, practical exercises, certifications of attendance, excursions and homework assignments. Further details are given in the appendix; the details are gathered from the module manual and the curriculum. If multiple alternative forms of the performance review are provided here, the course supervisor informs the students about the current type and duration of the performance review at the beginning of the course. Failed credits should be repeated at the next possible date.

(7) Credit points for modules that have not yet been completed are only certified in justified individual cases. A justified individual case could be, for example, the proof of the purpose of transfer or the application of training services. In such cases, the performance record contains at least the name of the participating student, the exact name of the course and the module, the information of the semester in which the course was conducted, the number of credit points and the result of the performance review.

§ 6 Recognition of study periods, credits and test performances

(1) Study periods, credits and test performances, which have been carried out in study programmes at the Technical University of Kaiserslautern or in other German or foreign, state or state-recognised universities, are recognised if the competencies and the learning outcomes obtained thereby do not differ significantly in content, qualification level and profile from the Advanced Quantum Physics Master’s programme. In the process, an overall view with regard to the significance of the performances for achieving the objectives of the study programme and the purpose of the Master’s examination must be carried out. The onus for the assertion of substantial differences lies on the Technical University of Kaiserslautern. For the recognition of credits and test performances which have been obtained outside Germany, the equivalency agreements approved by the Standing Conference of Education Ministers (KMK) and the German Rectors’ Conference (HRK) as well as agreements in the framework of university cooperation agreements must be observed.

(2) For study periods, credits and test performances in state-recognised correspondence courses and for multimedia-based credits and test performances, Paragraph 1 applies correspondingly. Paragraph 1 also applies to other educational institutions, especially to state and state-recognised vocational academies as well as to technical and engineering colleges and military academies of the former German Democratic Republic.
(3) Omitted.

(4) Skills and qualifications acquired outside the higher education sector are recognised on application only in the first half of the degree.

(5) If the student intends to participate in a study programme abroad or a study programme in the framework of a university cooperation with subsequent recognition of the obtained credits and test performances, the student must discuss the eligibility for recognition of the credits and test performances with the chairperson of the examination board or one of these representatives (Paragraph 11) before the start of the external study stay and generally finalise a Learning Agreement. On completion of the stay abroad, the application for recognition of credits and test performances must be submitted to the Department for Examination Affairs. A subsequent recognition or substitution of credits and test performances for credits and test performances already obtained at the Technical University Kaiserslautern is not possible.

(6) Performances, which correspond to the performances to be obtained only in parts, should be counted, if possible. In such a case, it is determined which additional performances must be obtained in what form, within which deadline and with what possibilities of repetition (acknowledgement conditions).

(7) Failed equivalent test performances in a study programme at a university in Germany are taken into account as failed attempts towards the permissible number of retests. Upon request by the student, the recognition of failed equivalent test performances for compulsory optional or elective modules is omitted under the premise that a further completion of these failed test performances is no longer possible.

(8) If credits and test performances are recognised, grades – if the grading systems are equivalent - are transferred and included in the calculation of intermediate grades and the overall grade. In case of inequivalent grading systems, the comment "passed" is recorded. A marking of the recognition is made in the report card.

(9) The students must submit the documents necessary for the recognition without delay. They must be submitted to the Department for Academic Affairs along with the application of registration or admission before the acceptance into the study programme. After the acceptance into the study programme, they must be submitted to the Department for Examination Affairs. A subsequent recognition or substitution of credits and test performances for credits and test performances already obtained at the Technical University Kaiserslautern is not possible.

(10) The recognition of performances in thematically related courses takes place officially, in other courses upon request.

(11) The examination board is responsible for the recognition of credits and test performances. It can delegate the responsibility to the person appointed by it (official representatives for recognition).

§ 7 Interests of students in special situations, Compensation for disadvantages

(1) The special interests of students with disabilities in order to preserve their equality of opportunity must be taken into account equally for obtaining credits and test performances.
(2) Students with disabilities can be granted a compensation for disadvantages, in the form of additional working aids and tools, insofar as it is necessary to establish equal opportunities. This also applies to disabilities, which lie outside the skills determined for the respective examination and could influence the examination result negatively. Constitutional or otherwise indeterminately prolonged ailment as well as systems and characteristics ingrained into the personality of the candidate shall not be considered, provided that they are related to the performance to be determined through the examination. In order to establish equal opportunities, processing periods, for example, can be extended to a reasonable extent or the participation in an examination can be enabled in another form. Evidence of the disability must be provided. Credible evidence is shown by submitting a medical certificate. The application of compensation for disadvantages must be provided in writing to the Department for Examination Affairs. The application is forwarded to the examination board. It decides upon the application. The application should be provided not later than the registration for the examination.

(3) Students, who mainly take care of a child alone or care for dependent relatives, can be exempted from the requirement of regular attendance of the courses upon application. Prerequisite for the exemption is the obtaining of a reasonable additional credit in self-study, corresponding to the workload of the leaves. This is determined by the course supervisor in agreement with the student. If there is no agreement, the examination board decides.

§ 8 Examination board

(1) The faculty council of Physics employs an examination board for the organisation of the examinations and appoints its members. The examination board takes note of the tasks and responsibilities assigned to it by means of these examination regulations. The examination board makes sure that the provisions of the examination regulations are complied with and ensures the proper execution of the examination procedure. It responds to objections against the decisions taken in the examination procedure. It regularly reports to the faculty council about the development of the study and examination periods, including the actual processing times for the Master's thesis as well as about the distribution of the module grades and the overall grades. Furthermore, the examination board gives the responsible expert committee for student affairs suggestions and tips with regard to changes in the study programme and the associated changes in the curriculum, the module manual and the examination regulations.

(2) The examination board consists of seven members. This team includes the chairperson, the deputy chairperson, both members from the group of professors, two other members from the group of professors and one member from the student groups, the academic employees and the non-scientific staff. The term for the student member is one years, and three years for the remaining members. Reappointment of a member is possible. In case a member leaves ahead of schedule, a successor is appointed for the remaining term.

(3) The members of the examination board are subject to official confidentiality. As long as they are not in public service, they are obliged to confidentiality by the chairperson.

(4) The meetings of the examination board take place at least once every semester and are not open to the public. The examination board has a quorum only if more than half the members are
present. Insofar as the examination regulations do not stipulate another regulation, the examination board decides with a simple majority. In the event of a tie, the vote of the chairperson is the deciding factor.

(5) With the agreement of the chairperson of the examination board, the members of the examination board have the right to attend test performances. This right also extends to the guidance for and the announcement of the examination result.

(6) The examination procedure must be organised by the supervising department in cooperation with the examination board and the Department for Examination Affairs. The examination board appoints the examiner if it is allowed to do so as per § 9 Paragraph 1, and determines the respective examination dates in consultation with the examiner. The name of the examiner as well as the examination dates are communicated to the Department for Examination Affairs.

(7) Incriminating decisions of the examination board which affect the non-admission to examinations, recognition of credits and test performances or the determination of the final failure, must be communicated in writing to the concerned students and must be provided with information on legal remedies.

(8) The examination board can communicate the completion of individual tasks to the chairperson or to another one of its members upon agreement with the student(s) or carry it out by circulating the motion. For questions regarding recognition of credits and test performances, it can appoint official representatives for recognition who need not be members of the examination board. The examination board is supported in the completion of its tasks by the Department for Examination Affairs, insofar as they are not assessment issues related to examination procedures. Employees of the Department for Examination Affairs can participate in the meetings of the examination board in an advisory capacity.

§ 9 Examiners

(1) Examinations are conducted by professors. The following may also be appointed as examiners: Retired professors, persons qualified as a university lecturer, adjunct professors, junior professors as per § 61 Paragraph 2a HochSchG, academic and artistic employees with tasks as per § 56 Paragraph 1 Sentence 2 HochSchG, lecturers as per § 63 HochSchG as well as teachers for special responsibilities in accordance with § 58 HochSchG. On the suggestion of the faculty council, honorary professors as well as persons with practical experience can also be appointed as examiners. Teachers from foreign universities can also be appointed as examiners, who possess a qualification equivalent to those required for the group of examiners as per Sentence 1 to 3.

(2) The examiners must at least have the qualification to be determined through the examination or an equivalent of it.

(3) The examiners are subject to official confidentiality. As long as they are not in public service, they are obliged to maintain confidentiality by the chairperson of the examination board.
(4) In courses with cooperation agreements with foreign universities, the authorised examiners of the participating foreign universities can also be appointed as examiners. Paragraphs 2 and 3 apply correspondingly in this case.

§ 10 Assessors, Invigilators

(1) The examination board appoints the assessors or invigilators; it is thereby supported by the examiners. The assessors must at least have the qualification to be determined through the examination or an equivalent of it. They keep a protocol of oral and practical examinations. In consultation with the examiner, they are authorised to bar students from continuing the examination in case of disturbances during the examination; the principle of proportionality must be observed here. § 9 Paragraph 3 and 4 apply correspondingly.

(2) The examiners appoint the invigilators. They supervise written and practical examinations. In consultation with the examiner, they are authorised to bar students from continuing the examination in case of disturbances during the examination; the principle of proportionality must be observed here. § 9 Paragraph 3 and 4 apply correspondingly.

Section II: Execution of the Master's examination

§ 11 Registration, deregistration and admission to the Master's examination

(1) The application for admission to the Master's examination must be provided with the registration to the first module or sub-module examination. The examination rights contract is constituted upon admission to the Master's examination.

(2) Registration is mandatory for module examinations and sub-module examinations as well as for retaking them (§ 18). The registration for the module examinations and for the Master's thesis must be addressed to the examination board in suitable form and submitted to the Department for Examination Affairs. § 16 applies to the Master's thesis. The registration should take place via Campus Management, if the university has made this option available. The registration must be carried out for each semester within the form and time limit specified by the Department for Examination Affairs. In exceptional circumstances, an exception to this deadline can be made by the examination board upon request; an exception is possible if the student provides reasons to the examination board, which are not associated with his or her person, which he or she has not caused or can be held liable for, and which made it impossible for him or her to meet the deadline.

(3) Upon admission to the Master's examination, the following documents must be enclosed along with the application, unless they have already been submitted with the application for admission to the study programme:
1. A declaration stating whether the student has not already passed the Master's examination in the chosen study programme at a university in the Federal Republic of Germany definitively and whether he or she is in the middle of an incomplete examination procedure at a university in the Federal Republic of Germany, and;

2. a complete proof of whether and, if necessary, how often the student has already passed or failed test performances in a thematically related course at a university in the Federal Republic of Germany.

In the declaration as per Number 1, the student must assure that in case of a simultaneous degree course of study programme of another study programme, he or she will communicate in writing the beginning and the completion of the examination procedure as well as the failure of examinations from the other study programme without delay to the Department for Examination Affairs.

(4) The student can only be allowed for the examinations if he or she is matriculated in the chosen study programme as per the registered regulations at the Technical University of Kaiserslautern, and

1. is not on leave in the semester in which the examination must be taken, and;
2. has duly registered himself or herself;
3. has not already lost the right to examination at a university in the Federal Republic of Germany in the chosen study programme or altogether in two study programmes, and;
4. meets the prerequisites determined in these examination regulations for admission to the examination.

The student is allowed to take the examination if the admission requirements are met. Should an as yet incomplete examination procedure from another study programme have a significant influence of the prerequisites as per Sentence 1, admission takes place with reservation.

(5) All admission requirements must be proven to the Department for Examination Affairs by the students no later than ten days before the examination. If it is established that the admission requirements are met but the required proof is outside the sphere of influence of the student, admission takes place with reservation.

(6) The admission to an examination is rejected if

1. the requirements of Paragraph 4 are not met,
2. the registration to the examination does not take place on the due date,
3. the documents are incomplete as per Paragraph 3 and 5, or
4. the retaking of an examination is no longer permissible.

In case the student takes an examination in the knowledge that admission to the examination has not been granted, the examination will be considered invalid.

(7) In case a student is not granted admission to an examination after proper registration, this decision must be conveyed to him or her, indicating the grounds for the decision in suitable form, not later than a week before the examination.
(8) The student is obliged to be informed about the examination dates. The dates of the individual examinations are intimated by the Department for Examination Affairs in a timely manner and in a suitable form.

(9) Deregistration for an examination, without indicating the grounds for the decision, must be communicated by the student, notwithstanding the provisions of § 19 Paragraph 1 and 2, within a period of one week (deregistration notice period) before the examination date towards the Department for Examination Affairs personally, in writing or via the Campus Management. In case of written communication, the date of the postmark is decisive.

(10) After the deadline for the deregistration expires, withdrawal from the examination is possible only in exceptional circumstances, according to the provisions in § 19 Paragraph 1 and 2.

(11) The provisions of Paragraphs 1 to 10 apply to all module and sub-module examinations correspondingly.

(12) Obtaining certain minimum performances within reasonable time periods forms the basis for a proper continuation of the study programme that is in accordance with the curriculum. If the reporting deadline determined by this provision is missed for at least two semesters, an examination is considered as provisionally failed. For retaking this “failed” or “insufficient” (grade 5.0) examination, § 18 applies.

(13) The end of the sixth semester is determined as the reporting period for the Master’s thesis in the sense of § 26 Paragraph 2, Number 7 HochSchG. In case the first issue is not made or is considered to have not been made until the end of the eighth semester, the Master’s thesis is deemed as provisionally failed.

§ 12 Module examinations

(1) The module examinations are conducted during the course; normally, they conclude the respective module. The student must prove by means of the module examination that he or she has achieved the intended learning outcomes. The subject matter of the module examinations are basically the learning outcomes and contents of the courses of the respective module.

(2) The module examinations are conducted in the following ways: oral examinations as per § 13 or written examinations as per § 14 examinations as per § 15. Types of examinations other than those specified in §§ 13 to 15 are permissible in accordance with the Appendix, the provisions of §§ 13 to 15 must be applied correspondingly.

(3) A module examination generally consists of a test performance. In justified exceptional cases, a module examination can consist of partial examinations (sub-module examinations). Module and sub-module examinations can consist of part performances. The provisions in accordance with §§ 13 to 15 apply correspondingly for sub-module examinations and part performances. Part performances can be divided over multiple dates within an examination period. The number, type, form and subject matter of the module examinations as well as the prerequisites for the taking an examination are specified in Appendix 1. The assessment of test performances and the calculation of the module grade takes place in accordance with § 17.
(4) If credits must be obtained in a module, its passing can be a prerequisite for admission to the module examination as per the corresponding regulations in Appendix 1. Admission with reservation as per § 11 Paragraph 4 remains unaffected. The module is passed only when all the credits to be obtained in the module as well as the module examination are successfully passed.

(5) The examination period for the winter semester is generally from 16th November of the current year to 15th May of the following year, from 16th May to 15 November of the current year for the summer semester. Examinations should generally be carried out during the period when no courses take place. In case of module examinations that take place annually, the re-examination can take place in the same examinations period. Here, sufficient time must be provided for examination preparation. Examinations, which are conducted after the end of the 3rd semester, can also take place within the lecture period upon request of the student.

(6) For modules from other study programmes, (import modules), the examinations modalities of the study programme to which the import module is associated generally apply. Differing provisions can be provided while awarding credit points, insofar as they are justified by different goals and requirements in the course of the study programme. Further details are provided in the Appendix.

(7) Immediately after the completion of the assessment of the credit points, the examiner of the Department for Examination Affairs communicates the result of the test performances for all duly registered students.

§ 13 Oral examinations

(1) An oral examination comprises the oral handling of one or more questions and assignments corresponding to the learning objectives by the students.

(2) Oral examinations are conducted by at least two examiners (collegial examination) as per § 9 or by an examiner in the presence of a competent assessor as per §§ 9 and 10.

(3) Oral examinations can be carried out as an individual or a group examination with a maximum of four students and can take anywhere between 15 and 60 minutes per student. Should a requirement for including graphical or computational presentations arise from the examination question, these presentations are also a part of the oral examination.

(4) The assessment of an oral test performance is carried out by the examiner. It takes place, if necessary, after consulting the assessor. In case of an assessment by multiple examiners, the examiners agree upon a grade. The result is communicated to the student following the oral examination, unless admission to the examination has taken place with reservation. If the examination is failed, the reasons for the same must be disclosed to the student. The second retaking of an oral examination is conducted and assessed by at least two examiners (two-examiner principle).

(5) A record of the course of each oral examination is kept. This must include the name of the examiner, the assessor and student as well as the name of the associated module. Furthermore, the record has the beginning and the end, the essential subject matters and the result of the examination. The record is signed by the examiner and, if there is one, by an assessor. It is to be
§ 14 Written examinations

(1) A written examination includes the written exercise of one or more assignments set by the examiners. Written test performances are set in the form of proctored examinations (Paragraph 4), homework (Paragraph 5), multimedia-based examination assignments (Paragraph 7) or other written examination methods. Aids can be permitted for the same.

(2) The list of aids is determined by the examiners and notified no later than fourteen days before the examination date in a suitable manner.

(3) Written test performances are generally assessed by an examiner. If the student cannot retake an examination anymore in case of having failing it, the test performance must be assessed by a second examiner (two-examiner principle). The examiners agree upon a grade as per § 17 Paragraph 1. The duration of the assessment procedure, including the notification of the examination results, should generally not exceed four weeks. The earlier that a re-examination can take place in the same examination period is two weeks after notification of the examination result.

(4) In case of a written examination in the form of a proctored examination, one or more assignments set by the examiners must be dealt with under supervision. The duration of the examination is one to four hours. Further details are specified in Appendix 1.

(5) A written examination in the form of homework includes the written exercise of one or more topics set by the examiners with the standard methods of the subject in a limited time. The topic should be chosen in such a way that the total time required for handling the topic corresponds to the student workload intended in the module in the sense of § 5 Paragraph 3; further details are provided in the Appendix. The examiners keep a record of the homework task and communicate this, along with the submission date, to the Department for Examination Affairs. The examination board can determine the dates for the homework tasks. A homework task can be carried out as a group work on approval of the examiners. In this case, the contribution of the individual

communicated to the Department for Examination Affairs immediately after the completion of the examination.

(6) Students, who want to take the same examination at a later time in the examination period, can be admitted as auditors upon request, insofar as the student to be examined does not object to the examination during admission. The examiners take decisions about such requests, which must be submitted to the Department for Examination Affairs three weeks before the oral examination, according to the number of available places. In case the proper execution of the examination is jeopardised, the expulsion of the auditors can take place even during the examination. The admission to attend the examination does not include the guidance for and notification of the examination result.

(7) Upon request by the student, the central Equal Opportunities Officer of the Department can participate in the oral examinations. The participation does not extend to the guidance for and the announcement of the examination result.
students to be assessed as a test performance must be clearly definable as an individual test performance and must be assessable in its own right, based on the indication of sections, number of pages or other objective criteria.

(6) Omitted.

(7) Written examinations in the form of multimedia-based examination assignments ("e-examinations") are generally devised by two examiners. They consist of free text assignments, fill-in texts and association tasks. Before the execution of multimedia-based test performances, it must be ensured that the electronic data can be clearly identified, and permanently and distinctively assigned to the students. The examination must be conducted in the presence of an expert (record keeper). A record must be kept over the course of the examination, which must include at least the names of the record keepers and students, the beginning and end of the examination as well as possible special occurrences. The student must be granted the opportunity for access to the multimedia-based examination as well as in the result obtained by them, as per the provisions of § 24. The task including a sample solution, the assessment scheme, the individual examination results as well as the record must be archived.

(8) Omitted.

(9) A multiple choice examination is conducted if the minimum performance of the student required for passing the examination can exclusively be obtained by selecting the correct or incorrect answers. Multiple choice examinations are only permissible if they are suitable for proving the achievement of the examination objectives as per § 12 Paragraph 1 Sentence 2. A multiple choice examination must be prepared by two examiners. The examiners select the examination material, formulate the questions and determine the possible answers. Additionally, they create the assessment scheme as per the sentences 10 to 14 and apply it in connection to the examination. The examination questions must be absolutely comprehensible, clearly answerable and suitable for unambiguous determination of the level of knowledge of the students to be assessed. The prerequisites for passing the examination must be predetermined. The examiners must submit a description of the examination to the examination board before the first implementation of a multiple choice examination, which indicates the suitability as per Sentence 2. Additionally,

- the selected questions,
- the sample solution and
- the assessment scheme

must be submitted to the examination board. The examination is passed if the student has obtained at least 50 per cent (pass mark) of the marks. If the overall average of the marks obtained in an examination is less than 50 per cent, the proctored examination is also passed if the marks obtained by the student does not exceed the average test performance of all examination candidates by more than 15 per cent (indexation clause). Alternatively, the pass mark can be determined as at least 60 per cent of the marks to be obtained; in this case, the indexation clause is 22 per cent. An assessment scheme, which determines an absolute pass mark, is impermissible. The performances must be assessed as follows:

If the minimum number of points required for passing the examination is achieved, the grade is excellent, if at least 75 per cent,
good, if at least 50 but less than 75 per cent,
satisfactory, if at least 25 but less than 50 per cent,
sufficient, if no or less than 25 per cent
of the additionally obtained marks have been obtained.

§ 15 Practical and other examinations

(1) Practical examinations can be conducted in the form of practical laboratory examinations. The admission to practical examinations can be made dependent on the participation of safety trainings.

(2) Practical examinations take place as individual or group examinations. In case of a group examination, the contribution of the individual students to be assessed as a test performance must be clearly definable as an individual test performance and must be assessable in its own right, based on objective criteria. The aids are decided by the examiners and notified in a suitable manner.

(3) Practical laboratory courses are experimental tasks in the form of technical experiments carried out and recorded independently or under supervisions, which, under didactic and methodological supervision, combine study and practical experience and impart knowledge about the basic procedures and working methods of the subject.

(4) Omitted.

(5) The determination of the performance in case of practical laboratory examinations takes place (along with the studies) based on the criteria to be made known by the course supervisor at the beginning of the course. Written practical laboratory examinations are generally assessed by an examiner. The test performances can be conducted even by the internship assistants, insofar as they have the corresponding qualifications as per § 9. The rendered performances are recorded and the examination results are made known in a suitable form.

(6) Omitted.

(7) The final retaking of a practical examination is conducted and assessed by two examiners (two-examiner principle). The examiners agree upon a grade. The result of the examination must be communicated to the student following the practical examination.

(8) Test performances can also be conducted as a partial performance in the form of a discourse, report, presentation or the like. The assessment is carried out by an examiner. § 13 Paragraph 4 applies correspondingly.

§ 16 Master’s thesis
(1) The module examination of the module is divided into a Master’s thesis, which must be submitted in writing, and a partial performance in the form of a discourse. The Master’s thesis should demonstrate that the student is capable of successfully and independently handling an assignment from the selected major study course within a specified period of time as per the scientific methods, and of representing it in writing. The discourse should demonstrate that the student is capable of orally presenting the achieved results of the Master’s thesis in a coherent manner.

(2) The Master’s thesis is offered and supervised by professors (supervisors). The examination board can appoint examiners as supervisors as per § 9, provided that they are scientifically active in the subject area chosen by the student. In case the student does not find any supervisor, the examination board provides for a supervisor upon request by the student. A corresponding request must be carried out no later than one month before expiry of the deadline mentioned in § 11 Paragraph 13 and applies as registration in the sense of § 11.

(3) Only those who have successfully completed the modules Quantum Technologies, Many-Body Quantum Systems, Science Electives, General Electives, Laboratory Courses and Research Module, can be admitted to do a Master’s thesis, notwithstanding the provisions of § 11 Paragraph 13. In exceptional circumstances, the examination board may make an exception upon request by the student.

(4) Before the assignment of the Master’s thesis, the student must submit a certificate issued by the Department for Examination Affairs to the supervisor, stating that the prerequisites are fulfilled as per Paragraph 3. The certification is filled in with the topic of the Master’s thesis and the date of assignment, signed and promptly submitted to the Department for Examination Affairs by the supervisor.

(5) The time period of the assignment of the topic to the student until the handover is six months. Topic, assignment and scope of the Master’s thesis and the preparation time for the discourse must be delimited by the supervisor such that the workload of 900 hours for the student and the deadline for preparing the work can be complied with. The student has the right of proposal for the topic of the Master’s thesis. In special cases, the time required for completing the Master’s thesis can, upon a written request by the student with the consent of the supervisor, be extended by up to two months by the chairperson of the examination board. The request should be submitted no later than two weeks before the end of the completion deadline to the Department for Examination Affairs. The consent of the supervisor should be enclosed along with the request.

(6) The topic of the Master’s thesis can only be returned once and only within the first two weeks of the completion time. In this case, the Master’s thesis is considered as not undertaken. The student must propose the issuance of a new topic within two weeks after returning the previous topic. The chairperson of the examination board sees to it that a new topic is promptly issued.

(7) Omitted.

(8) The Master’s thesis must be in English, the title must be specified in German and English.

(9) On approval of the examination board, the Master’s thesis may be carried out in an institution outside the Department. The prerequisite here is for the Master’s thesis to be, in cooperation with a member of the department who is qualified to supervise, supervised by a person who possesses a minimum qualification of a supervisor in accordance with Paragraph 2.
(10) The student must submit the Master’s thesis in due time to the Department for Examination Affairs in duplicate in printed and bound form as well as in an appropriate electronic form (§ 19 Paragraph 6). The time of submission must be recorded. During the submission of the Master’s thesis, the student must confirm in writing that he/she has authored his/her work independently and has not used any sources or aids other than those specified. If the Master’s thesis is not submitted in due time or if it is not in the form as per Sentence 1, it is assessed as “insufficient” (Grade 5.0).

(11) The Master’s thesis is assessed by the supervisor (primary reviewer) and generally by a second examiner (secondary reviewer) as per § 17 Paragraph 1 Sentence 2. The examination board appoints the secondary reviewer. At least one of the reviewers should be a professor in the Physics Department of the Technical University of Kaiserslautern.

(12) In case of equal assessment by the reviewers, that grade is the grade of the Master’s thesis. If the assessments vary, but are equal to or better than 4.0, the assessments are averaged and are adjusted to the grading scale as per § 17 Paragraph 1, where the average is rounded off to the grade on the scale with the smallest distance. In case of equal distance to both grades, the scale must be rounded off to the next better grade. If the assessments vary and one of them is 5.0, the chairperson of the examination board attempts to create an agreement of both reviewers to one common assessment. If this does not happen, he/she prompts another examiner to assess the Master’s thesis. In this case, the grade corresponds to the average of the three assessments (median). The grade 5.0 can only be awarded in case of an assessment by at least two examiners. The assessment procedure should generally not exceed four weeks.

(13) If the Master’s thesis module is provisionally assessed with the grade 5.0 or if the Master’s thesis has not been submitted in due time, the examination board must communicate this to the student in writing. After receipt of the written communication, the student must propose the issuance of a new topic within 4 weeks to the examination board. If no proposal has been made or if the prerequisites of Paragraph 3 are not met at the time of the proposal, the Master’s thesis module is considered as definitively failed. A return of the topic as per Paragraph 6 for the second Master’s thesis is only permissible if the student has not made use of this opportunity during the first Master’s thesis. A repetition of the Master’s thesis module is excluded.

(14) In order to pass the Master’s thesis module, the written Master’s thesis must be passed. The discourse should be 30 minutes long, followed by a discussion of at least 15 minutes.

§ 17 Assessment, passing and failure of examinations and credits

(1) For the assessment of ungraded credits and test performances, the results “passed” and “failed” must be sued. For the assessment of individual, ungraded credits and test performances, which also include the Master’s thesis and examinations, which require the two-examiner principle, the following grades must be used:

- 1.0; 1.3 = excellent = an outstanding performance,
- 1.7; 2.0; 2.3 = good = a performance, which is significantly better than the average requirements,
2.7; 3.0; 3.3 = satisfactory = a performance, which corresponds to the average requirements,
3.7; 4.0 = sufficient = a performance, which still meets requirements in spite of its deficiencies,
5.0 = insufficient = a performance, which, due to its significant shortcomings, no longer satisfies requirements.

(2) A module is passed if the credits assigned to the module (as per Appendix) are obtained and the test performances (module examinations) assigned to the module are assessed at least with “passed” or with the grade “sufficient” (4.0). If a module examination consists of a test performance, its assessment is concurrent to the achieved result of the module examination. If a module examination consists of multiple test performances (module examinations), each compulsory test performance must be passed separately and be assessed as per Paragraph 1. In such cases, the grade of the module examination must be calculated as the arithmetic average of the grades for the individual test performances; deviating provisions are dealt with in Appendix 1. In case of an average, the module grade is:

- up to and including 1.5 = excellent,
- over 1.5 up to and including 2.5 = good,
- over 2.5 up to and including 3.5 = satisfactory,
- over 3.5 up to and including 4.0 = sufficient,
- over 4.0 = insufficient.

When calculating the grades of the modules, only the first decimal place after the point is taken into consideration, all further places are disregarded without being rounded up.

(3) The assessment of the Master’s thesis module takes place as per § 16, Paragraphs 11-14.

(4) The grade of the Master’s examination is the weighted average of the grades for the sections (§ 5 Paragraph 1) as per Appendix. The grades of the sections are the arithmetic average of the grades for the modules. Ungraded modules or modules assessed with the comment “passed” are not taken into consideration during the calculation. When calculating the grade of the section grade and the Master’s examination, only the first decimal place after the point is taken into consideration. All further places are disregarded without being rounded up. In case of an average, the grade of the Master’s examination is:

- up to and including 1.1 = with honours,
- over 1.1 up to and including 1.5 = excellent,
- over 1.5 up to and including 2.5 = good,
- over 2.5 up to and including 3.5 = satisfactory,
- over 3.5 up to and including 4.0 = sufficient,
- over 4.0 = insufficient.
(5) To be able to compare the various grading scales, the university publishes a statistical distribution of the grades of a study programme in suitable form, in accordance with the current provisions of the ECTS Users’ Guide.

§ 18 Retaking module examinations and credits

(1) Passed module or sub-module examinations and a passed Master’s thesis may not be retaken.

(2) Failed written module or sub-module examinations can be retaken twice, where the first re-examination must be carried out within two and the second re-examination within four consecutive examination periods (§ 12 Paragraph 5), which follow the examination period in which the first examination attempt was made; this also applies to written module or sub-module examinations, which are offered only once or twice annually and in the concerned examination period. If the deadline for retaking an examination is missed, the missed examination is considered as failed. Before retaking a module or sub-module examination the second time, students are strongly encouraged to have a consultation meeting with the responsible departmental advisor.

(3) In case of a second written re-examination in the form of a proctored examination, the assessment “insufficient” (grade 5.0) can only be awarded after a supplementary oral examination. The supplementary oral examination only helps to decide whether the student receives 4.0 or a poorer grade. The supplementary oral examination must be conducted as an individual supplementary examination by at least two examiners and its duration should be between 15 and 30 minutes. It must be carried out promptly. Before the supplementary oral examination is carried out, the students must be granted access to the assessed written test paper. The examination dates and the registration period for the supplementary oral examination is communicated by the examiner no later than upon announcement of the examination results. Students must register for the supplementary oral examination on or before the specified deadline, otherwise the examination is considered to be definitively failed. A supplementary oral examination is excluded if the student has not retaken the examination, has announced his/her withdrawal as per § 19 Paragraph 8 before the date of the supplementary oral examination, has exmatriculated him/her before the date of the supplementary oral examination or if the assessment “insufficient” is based on § 19 Paragraph 3.

(4) Failed supplementary oral module or sub-module examinations can be retaken twice. Paragraph 2 applies correspondingly.

(5) Failed practical laboratory examinations can only be retaken once. Other failed practical module examinations can only be retaken twice. Paragraph 2 applies correspondingly.

(6) A failed optional compulsory examination as per § 5 Paragraph 3 no. 2 can be replaced by another optional compulsory examination taking into account the permissible number of re-examination possibilities, with approval of the examination board.

(7) A failed elective module examination can be replaced by another elective module examination without taking into account the permissible number of re-examination possibilities. A rechange is excluded.
(8) In case the result of an examination leads to definitive failure (§ 21 Paragraph 2), the student, in exceptional circumstances (e.g. deaths in the family, serious illness of close relatives), may be allowed to retake the examination. In this case, the student must submit a justified hardship application along with the appropriate proofs to the examination board, through the Department for Examination Affairs. The examination board decides upon the hardship application. The successful hardship application enables the student to pass the examination, which was failed in the previous regular re-examination attempt, in a renewed final attempt. In such cases, the previous re-examination applies as not undertaken.

(9) Taking re-examinations in another university in the framework of a university cooperation is allowed only on prior written approval of the examination board or that of the acknowledgement official, either through a Learning Agreement or in another suitable form.

(10) The retaking of a passed credit is excluded.

(11) § 16 Paragraph 13 applies to redoing Master’s thesis.

§ 19 Default, withdrawal, cheating, withdrawal

(1) A test performance is assessed as “insufficient” (grade 5.0) or “failed”, if the student, without valid reasons,

1. misses an examination date considered binding due to the registration,

2. withdraws from an examination after it starts,

3. has missed the proper and binding date for registration to the first attempt of an examination for at least two semesters,

4. does not comply with a date for obtaining the test performance or

5. in case of a written module examination, does not obtain it within the specified completion time.

(2) The enforced reasonable grounds for missing the deadline or withdrawing from an examination as per Paragraph 1 must be immediately given to the Department for Examination Affairs in writing, demonstrating their plausibility. If the Department for Examination Affairs recognises the reasons in consultation with the chairperson of the examination board, the default or withdrawal is deemed to be a timely withdrawal as per § 11 Paragraph 9. If the default or withdrawal take place due to illness of the student, it must be proven with a medical certificate. The student must submit the medical certificate immediately, i.e. without undue delay, to the Department for Examination Affairs. For observance of the deadline, a scanned copy of the medical certificate can also be sent by email or by fax. In these cases, the original must be handed in later without delay. In case of stating inability to take an examination for the first time, a simple medical certificate authenticating the inability to take an examination is sufficient. In case of recurrence (such a case occurs if the student reports in sick one more time for the same examination), the submission of a qualified medical certificate, which authenticates the date of the medical treatment, type, scope and duration of the illness as well as its effects on the ability to take the examination, or an official medical certificate without this information, can be requested. The illness of the student
is equivalent to the illness of a child for whom he or she is generally the sole caregiver or relatives in need of care.

(3) If the student attempts to influence the result of a credit or test performance through cheating or by using aids that are not permitted, the credit or test performance in question is assessed as “insufficient” (grade 5.0) or “failed”. A student, who disturbs the proper course of an examination, can be disqualified from continuing the test performance in question by the examiner, the assessor as well as the invigilators after a warning; in this case, the concerned test performance is assessed as “insufficient” (grade 5.0) or “failed”. In severe cases, the examination board can disqualify the student from obtaining further test performances in the current study programme.

(4) Incriminating decisions must immediately be communicated and justified to the student in writing, and must be provided with information on legal remedies. Before any decision, the student must be given an opportunity to express his/her views.

(5) In case of written examinations (except for proctored examinations), the student must declare in writing while submitting the work that he/she has authored his/her work independently and has not used any sources or aids other than those specified. If such a declaration turns out to be false or if there is another attempt to cheat or a compliance deviation while obtaining the performances, the Paragraphs 3 and 4 apply correspondingly.

(6) Examiners are authorised to use electronic means to examine written performances (except for proctored examinations) for cheating and attempts to cheat. For this purpose, the submission of a suitable electronic version of the work can be demanded from the student within a suitable deadline. The examination board determines which file formats are suitable.

(7) The provisions of Paragraphs 1 to 6 apply correspondingly for credits.

(8) Before the final opportunity for re-examination and not later than the expiry of the withdrawal notice period, the student can declare the withdrawal from the entire examination procedure of the Master’s examination to the examination board and thus forego the continuation of the examination rights contract. Once this is done, he/she can no longer participate in examinations in this study programme. Otherwise, the examination rights contract holds true and the student must complete the examination procedure. The withdrawal may not be revoked after it comes into effect. Rematriculation in the same study programme at the Technical University of Kaiserslautern is not possible due to the effectiveness of the withdrawal.

§ 20 Extension and interruption of deadlines

For the compliance of deadlines, extensions and interruptions of study periods are not taken into consideration, provided that they were conditional:

1. due to the participation in legal or constitutionally provided committees of a university, a student body or a student union,
2. due to illness, a disability or other reasons that the student is not responsible for,
3. due to pregnancy or bringing up a child; in these cases, at least the claim to legal maternity protection periods and the periods of parental leave as per the Parental Benefit Act and Parental Leave Act must be enabled,

4. due to supervision of a relative in need of care,

5. due to a proper relevant study stay abroad up to two semesters or

6. due to operational concerns in the framework of an extra-occupational, vocational or dual study course.

The student must obtain the appropriate proof and submit it to the Department for Examination Affairs.

§ 21 Passing the Master’s examination, report card, certificate, Diploma Supplement

(1) The Master’s examination is passed if all credits are obtained and the module examinations including the Master’s thesis are passed. For the passed Master’s examination, an overall grade is derived as per § 17 Paragraph 4.

(2) If a mandatory test performance may no longer be obtained or repeated, the Master’s examination is definitively failed. The chairperson of the examination board issues a written notification to the student regarding this, which is provided with information on legal remedies.

(3) If the Master’s examination is passed, a report can be issued to the student in German and in English, generally within eight weeks. The report card consists of the name of the study programme, the overall grade, the mandatory modules with the module grades and credit points as well as the title of the Master’s thesis. Additional performances as per § 23 in the form of completed modules can be acknowledged in the report card upon request by the student. The written request must be submitted to the Department for Examination Affairs no later than the day of the completion of the last mandatory credit or test performance. In case a module examination fully completed at another university is calculated, it is characterised in the report card by specifying the university.

(4) The report card includes the date on which the last mandatory credit or test performance was completed and must be signed by the chairperson of the examination board and provided with the seal of the German state.

(5) After passing the Master’s examination, the graduate is awarded a Master’s degree certificate along with the report card, both in German and in English. The certificate indicates the conferred academic degree as per § 1 Paragraph 4 and has the date of the report card. It is signed by the chairperson of the examination board and the Dean of the Physics Department and provided with the seal of the German state.

(6) Additionally, the graduate receives a Diploma Supplement (DS) in English, according to the "Diploma Supplement Model" by the European Union/Council of Europe/UNESCO. It includes the date of the report card and must be signed by the chairperson of the examination board and provided with the seal of the German state. The Diploma Supplement includes relevant infor-
mation about the university, the type of degree, the study programme, the admission requirements, the study requirements and the course of study as well as the German study system. As a representation of the national education system (DS-Section 8), the current version of the text agreed between the Minister of Education and the Arts (KMK) and German Rectors’ Conference (HRK) must be used.

(7) Students, who have definitively failed the Master’s examination, changed the study programme or have left the university before the completion of the Master’s examination, receive a comprehensive certification of the credits and test performances obtained.

§ 22 Invalidity of the Master’s examination

(1) If the student is found to have cheated and if this becomes known only after handing out the result, the examination board can subsequently can revise the grades for those credits and test performances in which the student has cheated, and declare the examination to be completely or partially failed. The inaccurate examination report cards, the Diploma Supplement, the Master’s degree certificate and, where applicable, the corresponding study record must be retracted and, if necessary, redistributed.

(2) If the prerequisites for admission to an examination have not been fulfilled without the student wanting to make an attempt to cheat in the same, and if this fact becomes known only after handing out the result, this shortcoming is made up for by passing the examination. If the student has gained admission by intentionally deceitful means, the examination board decides. Before any decision, the student must be given an opportunity to express his/her views.

§ 23 Additional performances

According to available capacities, students can complete additional credits and test performances from Bachelor’s or Master’s study programmes (additional performances) until the end of the semester in which they have passed the Master’s examination. In case of additional test performances, the approval of the examination board must be obtained. The corresponding request must be submitted by the Department for Examination Affairs in due time to the examination board, which makes the decision. If additional performances are failed, they need not be repeated. § 11 applies correspondingly.

Section III: Final provisions

§ 24 Right to information

(1) The student can inform him/herself about the partial result before the completion of the Master’s examination and can get access to his or her examination file after completion of the Master’s examination.
(2) Upon written application, access must be granted to the student to his/her test performances (except for proctored examinations, Paragraph 3) after announcement of the examination result of a test performance, and the related reports of the examiners as well as the records of the oral and practical examinations. The application for access must be provided to the Department for Examination Affairs no later than a month after announcement of the examination result. The chairperson of the examination board, in consultation with the examiners, decides the place and time of the access.

(3) In case of written test performances in the form of proctored examinations, the students are granted the opportunity to access their assessed examination work soon after the announcement of the examination results. The examiners decide the place and time of the access and notify it in a suitable manner.

(4) If students do not observe the access date as per Paragraph 2 or Paragraph 3, another date for access is provided to them on the basis of a written and justified application. This application must be provided to the Department for Examination Affairs no later than a month after announcement of the date of access.

(5) Within a year after completion of the Master's examination, the student is granted access to his or her examination documents including the Master's thesis and the associated comments of the reviewers on the basis of a written application. The application must be provided to the Department for Examination Affairs. The chairperson of the examination board decides the place and time of the access.

§ 25 Scope of application, entry into force, transitional provisions

These regulations enter into force after their publication in the promulgating publication of the Technical University of Kaiserslautern.

Kaiserslautern, 22nd May 2017

The Dean of the Physics Department

Prof. Dr. Sebastian Eggert
Appendix 1: Mandatory, optional compulsory and elective modules of the Master’s examination in Advanced Quantum Physics, credits and test performances to be obtained

Note: Taking into account the “Rules for the accreditation of study courses and for the system accreditation”¹ as well as the “Common state structural guidelines for the accreditation of Bachelor’s and Master’s study courses”² and their interpretations in the current versions, the examination board can decide, in justified cases, that a module examination for the respective semester will be taken in a completely or partially different form than the type and form of examination specified in the following Appendix 1; this does not apply to import modules (§12 Paragraph 6) and the Master’s Master’s thesis module. This decision must be announced up to four weeks before the execution of a module or sub-module examination, and four weeks before the end of the lecture period at the latest, indicating the examination modalities as well as the permitted aids in suitable form. The modules for which there is a selectable option with regard to the examination type are mentioned below, and indicate the regular (in general) type and form of examination for the type of examination.

¹ Decision of the Accreditation Council, of 08.12.2009
² Decision of the Standing Conference of Education Ministers, of 10.10.2003
### Mandatory, optional compulsory and elective modules

<table>
<thead>
<tr>
<th>Module no.</th>
<th>Module name/parts</th>
<th>LP</th>
<th>Weighting</th>
<th>Credits as per § 5 Para. 4 and 6¹</th>
<th>Test performance¹</th>
<th>Type of examination and duration</th>
<th>Partial performances¹</th>
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<tr>
<td>MB</td>
<td>Many-body quantum systems</td>
<td>20</td>
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<td>1 required</td>
<td>yes</td>
<td>oral examination 60 min</td>
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<td>Students choose sessions corresponding to the number of credit points (LP) from</td>
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</table>

¹ The required credits, prerequisites for admission and partial performances must be taken from the module manual.
<table>
<thead>
<tr>
<th>Module no.</th>
<th>Module name/parts</th>
<th>LP</th>
<th>Import module</th>
<th>Weighting</th>
<th>Credits as per § 5 Para. 4 and 6¹</th>
<th>Test performance¹</th>
<th>Type of examination and duration</th>
<th>Partial performances¹</th>
<th>Remarks</th>
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<td><strong>Section: Elective range</strong></td>
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<td>this range, mentioned in the module manual</td>
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<td>depending on the choice</td>
<td>Students choose non-physical sessions from the offer available throughout TU.</td>
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<td>Students can choose freely from sessions within the TU</td>
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<td>Dis-</td>
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</table>

³ If a test performance is considered as such, the performance shall be registered in the examination administration.