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Studies and Examination Regulations of Karlsruhe Institute of Technology (KIT) for the Master's Program of Computational and Data Science

dated April 16, 2026

Pursuant to Article 10, par. 2, No. 4 and Article 20, par. 2 of the Act on Karlsruhe Institute of Technology (KIT-Gesetz, KIT Act – KITG) of July 14, 2009 (Bulletin, pp. 317), last amended by Article 2 of the 5th Act on the Amendment to University Regulations (5. Hochschulrechtsänderungsgesetz) of November 12, 2024 (Bulletin 2024, No. 97, pp. 47) and Article 32, par. 3, cl. 1 and Article 32 a, par. 1, cl. 1 of the Act of Baden-Württemberg on Universities and Colleges (Landeshochschulgesetz, LHG) of January 1, 2005, last amended by Art. 1 of the 5th Act on the Amendment to University Regulations of November 12, 2024 (Bulletin 2024, No. 97, pp. 1), the Senate of KIT adopted the following Studies and Examination Regulations for the Master's Program of Computational and Data Science on March 16, 2026.

The President expressed his approval according to Article 20, par. 2 KITG in conjunction with Article 32, par. 3, clause 1 LHG on April 14, 2026.

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Preamble

Within the framework of the implementation of the Bologna process for establishment of a European higher education area, it is the declared objective of KIT that higher education at KIT should be completed by a master's degree. KIT therefore understands the consecutive bachelor's and master's programs offered to represent an integrated concept with a consecutive curriculum.

I. General Provisions

Article 1 – Scope

The present master's examination regulations cover the course of studies, examinations, and graduation in the Master's Program of Computational and Data Science at KIT.

Article 2 – Objective of Studies, Academic Degree

(1) During the consecutive master's program, scientific qualifications acquired in the course of the bachelor's program are further enhanced, expanded, extended, or complemented. Having completed the studies, the student is able to independently apply scientific findings and methods and to evaluate their significance and applicability to the solution of complex scientific and social problems.

(2) Upon successful completion of the master's examination, the academic degree of "Master of Science" (abbreviated by "M.Sc.") is conferred for the Master's Program of Computational and Data Science.

Article 3 – Regular Period of Studies, Organization of Studies, Credits

(1) The regular period of studies is four semesters.

(2) The curriculum of the program is divided into subjects, the subjects into modules, and the modules are divided into courses. The subjects and their scopes are defined in Article 19. Details are outlined in the module handbook.

(3) The work expenditure envisaged for passing courses and modules is expressed in credits. The criteria for assigning credits correspond to the European Credit Transfer System (ECTS). One credit corresponds to a work expenditure of about 30 hours. As a rule, the credits must be distributed equally over the semesters.

(4) The coursework and examinations required for the successful completion of the studies are measured in credits and amount to a total of 120 credits.

(5) The courses are offered in the English language. Courses may also be offered in German upon prior announcement.

Article 4 – Module Examinations, Coursework and Examinations

(1) The master's examination consists of module examinations. Module examinations consist of one or several controls of success.

Controls of success consist of coursework and examinations.

(2) Examinations are:

1. Written examinations,
2. oral examinations, or
3. examinations of another type.

(3) Coursework is written, oral, or practical work that is usually accomplished by students parallel to the courses.

(4) At least 70% of the module examinations are graded.

(5) In case of complementary contents, module examinations of several modules may be replaced by a module-overlapping examination (par. 2, Nos. 1-3). The control of success in examinations of another type may consist of several components.

Article 5 – Registration for and Admission to Module Examinations and Courses

(1) To participate in module examinations, students must register online on the Students Portal for the corresponding controls of success. In exceptional cases, registration can be made in writing with the examination committee. For controls of success, registration deadlines may be specified by the examiners. Registration of the master's thesis takes place online on the Students Portal, details are outlined in the module handbook.

(2) For admission to an examination in a certain module of choice, students, prior to the first examination in this module, submit together with their registration for the examination a binding declaration relating to their choice of the module and its assignment to a subject. If students have several options in a module, they must submit together with their registration for the control of success a binding declaration relating to their choice of the control of success. At the request of the student to the examination committee, the choice of the module or control of success or the assignment of the module to a subject can be changed later on.

(3) Admission to a control of success is granted to students, who

1. are enrolled in the Master's Program of Computational and Data Science at KIT; the admission of students on leave is limited to examinations specified in Article 14, par. 7, cl. 1 of the Admission and Enrollment Regulations of KIT; and to students, who
2. can prove that they meet the requirements for admission to a control of success outlined in the module handbook and
3. can prove that their entitlement to an examination in the Master's Program of Computational and Data Science has not been lost.

(4) According to Article 30, par. 5 LHG, admission to individual mandatory courses may be restricted. The examiner decides on the selection of students, who have registered in due time before the deadline given by the examiner, taking into account the study progress made by these students and taking into consideration Article 4, par. 1, clauses 1 and 2 of the Satzung über nachteilsausgleichende Regelungen in den Bachelor- und Masterstudiengängen am Karlsruher Institut für Technologie (KIT) (statutes on the compensation of drawbacks in the bachelor's and master's programs

of Karlsruhe Institute of Technology (KIT)), as amended, if the surplus of registrations cannot be reduced by other or additional courses. In the case of identical study progress, further criteria are specified by the KIT Departments. The result is announced to the students in due time.

(5) Admission is refused, if the conditions outlined in pars. 3 and 4 are not fulfilled. Admission may be refused, if the corresponding control of success was already passed in a KIT bachelor's program that was required for admission to this Master's Program. This does not apply to premature master's examinations. Admission to these must be approved explicitly according to clause 1.

Article 6 – Execution of Controls of Success

(1) Controls of success are performed parallel to the studies, usually while imparting the contents of the individual modules or shortly afterwards.

(2) The type of control of success (Article 4, par. 2, Nos. 1 – 3 and par. 3) is specified by the examiner of the respective course depending on the contents of the course and qualification objectives of the module. The type of controls of success, their frequency, sequence, weighting, and the determination of the module grade, if applicable, must be announced in the module handbook six weeks prior to the start of the lecturing period at the latest. The examiner and student may agree on a change of the type of examination and the examination language later on. In the former case, Article 4, par. 4 must be observed. When organizing examinations, the needs of students in special life situations must be considered according to Article 4, par. 1 of the *Satzung über nachteilsausgleichende Regelungen in den Bachelor- und Masterstudiengängen am Karlsruher Institut für Technologie (KIT)* (statutes on the compensation of drawbacks in the bachelor's and master's programs of Karlsruhe Institute of Technology (KIT)), as amended. Article 2 and Article 4, par. 1, cl. 3 of the above statutes, as amended, apply accordingly.

(3) In case of an unreasonably high examination expenditure, a written examination may also be passed orally or an oral examination may also be passed in writing. This modification must be announced six weeks prior to the examination at the latest.

(4) In case of courses in the English language (Article 3, par. 5), the corresponding controls of success must be executed in this language. If courses are held in German (Article 3, par. 5), the corresponding controls of success are held in German. Article 6, par. 2 applies accordingly.

(5) *Written examinations* (Article 4, par. 2, No. 1) are usually evaluated by an examiner according to Article 17, par. 2 or par. 3. If an evaluation is made by several examiners, the grade is the arithmetic mean of the individual evaluations. If the arithmetic mean does not correspond to any of the grade levels defined in Article 7, par. 2, clause 2, the grade is rounded to the next higher or lower grade level. In case of equal distance to the next higher and lower levels, the grade is rounded to the next higher grade level. The evaluation procedure must not exceed six weeks. Written examinations last at least 60 and not more than 300 minutes.

(6) *Oral examinations* (Article 4, par. 2, No. 2) are performed and evaluated as group or individual examinations by several examiners (examining board) or by one examiner in the presence of an associate. Prior to determining the grade, the examiner consults the other examiners of the examining board. Oral examinations usually last at least 15 minutes and not more than 60 minutes per student.

Major details and results of the *oral examination* are documented in the minutes. The result of the examination is announced to the students directly after the oral examination.

Students, who intend to take the same examination in a later semester, are admitted to oral examinations as an audience depending on the space available and upon approval of the examinee. They are not admitted to the consultation of the examining board and announcement of the examination results.

(7) For *examinations of another type* (Article 4, par. 2, No. 3), appropriate deadlines and submission dates are specified. Proper description of the task and adequate documentation ensure that the examination passed can be credited to the student. Major details and results of the control of success are recorded in the minutes.

During *oral examinations of another type*, an associate is present in addition to the examiner, who also signs the minutes together with the examiner.

Theses or papers to be written for an examination of another type must be provided with the following declaration: “Ich versichere wahrheitsgemäß, die Arbeit selbstständig angefertigt, alle benutzten Hilfsmittel vollständig und genau angegeben und alles kenntlich gemacht zu haben, was aus Arbeiten anderer unverändert oder mit Abänderungen entnommen wurde.” (I herewith declare that the present thesis/paper is original work written by me alone and that I have indicated completely and precisely all aids used as well as all citations, whether changed or unchanged, of other theses and publications). If the thesis/paper does not contain this declaration, it will not be accepted. Major details and results of such a control of success are recorded in the minutes.

Article 6 a – Controls of Success by a Multiple Choice Test

Controls of success by a multiple-choice test are subject to the Satzung des Karlsruher Instituts für Technologie (KIT) zur Durchführung von Erfolgskontrollen im Antwort-Wahl-Verfahren (statutes of Karlsruhe Institute of Technology (KIT) on controls of success by a multiple-choice test), as amended.

Article 6 b – Online Examinations

Online examinations are subject to the Satzung zur Durchführung von Online-Prüfungen am Karlsruher Institut für Technologie (KIT) (statutes on online examinations at Karlsruhe Institute of Technology (KIT)), as amended.

Article 7 – Evaluation of Coursework and Examinations

(1) The result of an examination is specified by the examiners in the form of a grade. If an examination of another type consists of several components (Article 4, par. 5, cl. 2), a grade is specified for the examination result according to clause 1. Details are outlined in the module handbook.

(2) The following grades must be used:

sehr gut (very good)	for an outstanding performance;
gut (good)	for a performance that is far above the average;
befriedigend (satisfactory)	for a performance meeting average requirements;
ausreichend (sufficient)	for a performance that is still acceptable in spite of its deficiencies;
nicht ausreichend (failed)	for a performance that is no longer acceptable due to major deficiencies.

For the differentiated evaluation of individual examinations, the following grades must be applied exclusively:

1.0, 1.3	:	“sehr gut” (very good),
1.7, 2.0, 2.3	:	“gut” (good),
2.7, 3.0, 3.3	:	“befriedigend” (satisfactory)
3.7, 4.0	:	“ausreichend” (sufficient)
5.0	:	“nicht ausreichend” (failed)

(3) Coursework is evaluated with “bestanden” (passed) or “nicht bestanden” (failed).

(4) When determining the weighted means of module grades, subject grades, and the total grade, only the first decimal place is considered. All following decimal places are deleted without rounding.

(5) Every module and control of success may only be credited once in the same program.

(6) An examination is passed, if the grade is at least “ausreichend” (4.0, sufficient). If an examination of another type consists of several components, the examination is passed, if the grade according to par. 1, cl. 2 is at least “ausreichend” (4.0, sufficient).

(7) A module examination is passed, if all required controls of success are passed. The module examination and determination of the module grade are outlined in the module handbook. If the module handbook does not contain any regulation about the determination of the module grade, the module grade is calculated from the grade

average weighted according to the credits of the individual examinations. The differentiated grades (par. 2) are used for calculating the module grades.

(8) The results of the controls of success as well as the credits acquired are administrated by the Students Office of KIT.

(9) The grades of the modules of a subject must be considered proportionally to the credits assigned to the modules when calculating the subject grade.

(10) The total grade of the master's examination, the subject grades, and the module grades are:

		Down to	1.5	=	“sehr gut” (very good)
from	1.6	to	2.5	=	“gut” (good)
from	2.6	to	3.5	=	“befriedigend” (satisfactory)
from	3.6	to	4.0	=	“ausreichend” (sufficient)

Article 8 – Repetition of Examinations, Ultimate Failure

(1) Students may repeat once a written examination that has not been passed (Article 4, par. 2, No. 1). In case a repeated written examination is given the grade of “nicht ausreichend” (5.0, failed), an oral reexamination must take place soon after the date of the failed examination. In this case, the grade of this examination that may only be “ausreichend” (4.0, sufficient) or “nicht ausreichend” (5.0, failed) is determined by the examiners or examiner taking the written result and the result of the oral reexamination into adequate consideration. Oral reexaminations usually last at least 15 minutes and not more than 30 minutes. Article 6, par. 6, clauses 1 and 2 and clauses 4 and 5 apply accordingly. In case a repeated written examination is deemed to have been “nicht ausreichend” (5.0, failed) according to Article 11, an oral reexamination is excluded.

(2) Students may repeat once an oral examination that has not been passed (Article 4, par. 2, No. 2).

(3) Repeated examinations according to paragraphs 1 and 2 must correspond to the first examination in terms of contents, scope, and type (oral or written). At request, exceptions may be approved by the responsible examination committee.

(4) Examinations of another type (Article 4, par. 2, No. 3) can be repeated once.

(5) Coursework can be repeated several times.

(6) An examination is ultimately not passed, if an oral reexamination according to par. 1 was evaluated with the grade of “nicht ausreichend” (5.0, failed). The examination also is ultimately not passed, if the oral examination according to par. 2 or the examination of another type according to par. 4 was evaluated twice with the grade of “nicht bestanden” (failed).

(7) The module is ultimately not passed, if an examination required for passing the module is ultimately not passed.

(8) A second repetition of the same examination according to Article 4, par. 2 is possible in exceptional cases at the request of the student only (“Antrag auf Zweitwiederholung” – application for a second repetition). As a rule, the request must be submitted in writing to the examination committee within two months upon announcement of the grade.

The examination committee decides on the first application of a student for a second repetition, if it is accepted. If the examination committee dismisses the application, a member of the Executive Board decides. Upon comment of the examination committee, a member of the Executive Board decides on further applications for a second repetition. If the application is accepted, the second repetition takes place on the next but one examination date at the latest. Paragraph 1, clauses 2 through 6 apply accordingly.

(9) Repetition of a passed examination is not permitted.

(10) In case a master’s thesis has been given the grade “nicht ausreichend” (5.0, failed), it can be repeated once. A second repetition of the master’s thesis is excluded.

Article 9 – Loss of the Entitlement to an Examination

In case coursework or an examination required according to the present Studies and Examination Regulations is ultimately not passed or the master's examination, including potential repetitions, is not passed completely by the end of the eighth semester, the entitlement to examination in the Master's Program of Computational and Data Science will expire, unless the student is not responsible for having exceeded the deadline. The decision on extending the deadline and on exceptions from the deadline regulations is made by the examination committee taking into account the activities listed in Article 32, par. 6 LHG at the request of the student. This request must be made in writing usually not later than six weeks prior to the expiry of the deadline.

Article 10 – Deregistration, Absence, Withdrawal

(1) Students can revoke their registration for *written examinations* until the issue of the examination tasks without having to indicate any reasons (deregistration). Deregistration can be made online on the Students Portal by 24.00 hrs on the day before the examination or in justified exceptional cases with the examination committee. If the deregistration is addressed to the examiner, the latter ensures that the deregistration is documented in the Campus Management System.

(2) In case of *oral examinations*, deregistration must be declared to the examiner at least three working days before the date of examination. Withdrawal from an oral examination less than three working days before the date of examination is possible under the conditions outlined in par. 5 only. In principle, withdrawal from oral reexaminations in the sense of Article 8, par. 1 is possible under the conditions of par. 5 only.

(3) Deregistration from *examinations of another type* and from *coursework* is subject to the provisions given in the module handbook.

(4) A control of success is deemed to have been "nicht ausreichend" (5.0, failed), if students fail to be present at the examination without a good reason or if they withdraw from the control of success after its start without a good reason. The same applies, if

the master's thesis is not submitted within the period envisaged, unless the student is not responsible for having exceeded the deadline.

(5) The reason given for withdrawal after the start of the control of success or absence must be notified immediately, credibly, and in writing to the examination committee. In case of sickness of the student or of a child maintained by the student alone or of a relative in need of care, submission of a medical certificate may be required.

Article 11 – Deception, Breach of Regulations

(1) In case students try to influence the result of their control of success by deception or the use of impermissible aids, this control of success is deemed to have been “nicht ausreichend” (5.0, failed).

(2) Students disturbing the proper execution of the control of success may be excluded from the continuation of this control of success by the examiner or supervisor. In this case, the control of success is deemed to have been “nicht ausreichend” (5.0, failed). In serious cases, the examination committee can exclude these students from other controls of success.

(3) Details relating to honesty during examinations and internships are outlined in the General Statutes of KIT, as amended.

Article 12 – Maternity Protection, Parental Leave, Assumption of Family Obligations

As regards the compensation of drawbacks of students in special life situations, the Satzung über nachteilsausgleichende Regelungen in den Bachelor- und Masterstudiengängen am Karlsruher Institut für Technologie (KIT) (statutes on the compensation of drawbacks in the bachelor's and master's programs of Karlsruhe Institute of Technology (KIT)), as amended, apply.

Article 13 – Students with a Disability or Chronic Disease

As regards the compensation of drawbacks of students in special life situations, the Satzung über nachteilsausgleichende Regelungen in den Bachelor- und Masterstudiengängen am Karlsruher Institut für Technologie (KIT) (statutes on the compensation of drawbacks in the bachelor's and master's programs of Karlsruhe Institute of Technology (KIT)), as amended, apply.

Article 14 – Master's Thesis Module

(1) For admission to the master's thesis module, the module examinations in the amount of 70 credits must have been passed successfully. At the request of the student, the examination committee decides on exceptions.

(1a) The master's thesis module is assigned 30 credits. It consists of the master's thesis and a self-learning course on "Good Research Practice."

(2) The master's thesis can be assigned by professors of KIT and habilitated members of the KIT Departments of Civil Engineering, Geo- and Environmental Sciences; Chemistry and Biosciences; Chemical and Process Engineering; Electrical Engineering and Information Technology; Informatics; Mechanical Engineering; Mathematics; Physics; and Business and Economics. In addition, the examination committee can authorize other examiners according to Article 17, pars. 2 and 3 to assign the subject. The students are given the possibility of making proposals relating to the subject. If the master's thesis is to be written at a KIT Department other than those listed in cl. 1, the approval of the examination committee is required. The master's thesis may also be accepted in the form of group work, if the contributions of the individual students to be evaluated in the examination can be distinguished clearly based on objective criteria and if the requirement outlined in par. 4 is fulfilled. In exceptional cases, the chairperson of the examination committee takes care of the student receiving a subject for the master's thesis within four weeks upon her/his request. In this case, the subject is issued by the chairperson of the examination committee.

(3) The subject, task, and scope of the master's thesis is limited by the supervisor such that it can be handled with the expenditure outlined in par. 4.

(4) The master's thesis demonstrates that the students are able to deal with a problem of their subject area in an independent manner and within a limited period of time using scientific methods. The scope of the master's thesis corresponds to 30 credits. The maximum duration of work on the thesis is six months. The subject and task must be adapted to the scope envisaged. The master's thesis must be written in English. At the student's request, the examiner may agree to the master's thesis being written in German. At the student's request, the examination committee may agree to the master's thesis being written in a language other than English or German.

(5) When submitting the master's thesis, the students assure in writing that the thesis is original work by them alone and that they have used no sources and aids other than indicated, marked all citations in word and content, and observed the Statutes of KIT for Safeguarding Good Research Practice, as amended. If this declaration is not contained, the thesis will not be accepted. The wording of the declaration may be: "Ich versichere wahrheitsgemäß, die Arbeit selbstständig verfasst, alle benutzten Quellen und Hilfsmittel vollständig und genau angegeben und alles kenntlich gemacht zu haben, was aus Arbeiten anderer unverändert oder mit Abänderungen entnommen wurde sowie die Satzung des KIT zur Sicherung guter wissenschaftlicher Praxis in der jeweils gültigen Fassung beachtet zu haben." (I herewith declare that the present thesis is original work written by me alone and that I have indicated completely and precisely all sources and aids used as well as all citations, whether changed or unchanged, of other theses and publications, and that I have observed the Statutes of KIT for Safeguarding Good Research Practice, as amended). If the declaration is found to be not true, the master's thesis will be evaluated "nicht ausreichend" (5.0, failed).

(6) The time of assignment of the subject of the master's thesis is recorded by the supervisor and the student/s and documented in the files of the examination committee. The master's thesis must be submitted to the examination committee in secure digital form corresponding to the state of the art. The details, in particular the digital forms permitted for submission, are specified in the module handbook. The time of submission of the master's thesis is recorded in the files by the examination

committee. If requested by the examiner, an additional printed version of the master's thesis must be submitted to the latter. In this case, the student must assure that the version submitted in digital form is identical with the printed copy. The student is allowed to return the subject of the master's thesis once only within the first month of the period of work on the thesis. At the justified request of the student, the examination committee may extend the time of work on the thesis given in par. 4 by three months at the maximum. If the master's thesis is not submitted on time, it is deemed to have been "nicht ausreichend" (5.0, failed), unless the student is not responsible for this failure.

(7) The master's thesis is evaluated by a professor of KIT at least or by a habilitated member of the KIT Departments listed in par. 2, cl. 1 and another examiner. The examiners may come from two different KIT Departments. As a rule, one of the examiners is the person who assigned the thesis according to par. 2. In case of deviating evaluations of both persons, the examination committee fixes the grade of the master's thesis within the limits of the evaluations of both persons. It may also appoint another expert. The evaluation period must not exceed eight weeks upon submission of the master's thesis.

Article 15 – Additional Achievements

(1) Further credits (additional achievements) in the amount of 30 credits at the maximum may be acquired in the courses offered by KIT. Articles 3 and 4 of the examination regulations remain unaffected. These additional achievements are not considered when calculating the total and module grades. The credits not considered when determining the module grade will be listed and marked as additional achievements in the transcript of records. At the student's request, additional achievements are indicated in the master's certificate and marked as additional achievements. Additional achievements are listed with the grades outlined in Article 7.

(2) The students declare a module examination an additional achievement when registering for this examination already. At the students' request, the assignment of the module can be changed later on.

Article 15 a – Key Qualifications

In addition to imparting scientific qualifications, KTI attaches high importance to interdisciplinary or key qualifications. These key qualifications of 4 credits are part of the Master's Program of Computational and Data Science. Key qualifications may be imparted additively or integratively.

Article 16 – Examination Committee

(1) For the Master's Program of Computational and Data Science, an examination committee is formed. It consists of six members entitled to vote: Three university professors of KIT / Privatdozentinnen or Privatdozenten, three academic staff members of KIT, and one student with an advisory vote. In case of the establishment of a joint examination committee for the bachelor's programs of mathematics, economathematics, technomathematics, and computational and data science and the master's programs of mathematics, technomathematics, and computational and data science, the number of students with advisory votes is increased to that of the degree programs, with each of these student members coming from another program. The term of office of the non-student members is two years, the term of office of the student member is one year.

(2) The chairperson, her/his deputy, the other members of the examination committee, and their deputies are appointed by the Department Council of the KIT Department of Mathematics. The academic staff members of KIT and the students are proposed by the members of the respective groups. Reappointment is possible. The chairperson and her/his deputy must be university professors of KIT. The chairperson of the examination committee is responsible for current transactions and supported by the respective examination office.

(3) The examination committee takes care of the provisions of the present Studies and Examination Regulations being observed and decides on examination matters. It decides on the recognition of study periods, coursework, and examinations according to Article 18, par. 1, cl. 1. It regularly reports to the KIT Department of Mathematics about the development of examination and study periods as well as about the times of work on the master's theses and the distribution of module and total grades. It makes suggestions for reforms of the Studies and Examination Regulations and module

descriptions. The examination committee decides with the majority of its votes. In the case of a tie, the chairperson of the examination committee decides.

(4) The examination committee may delegate the execution of its tasks for all standard cases to its chairperson. In urgent cases that cannot be postponed until the next meeting of the examination committee, the chairperson of the examination committee decides.

(5) The members of the examination committee have the right to participate in examinations. The members of the examination committee, the examiners, and the associates are obliged to secrecy. If they do not work in the public service sector, they are obliged to secrecy by the chairperson.

(6) In matters of the examination committee, which are related to an examination to be passed at another KIT Department, a competent person authorized to examine and to be appointed by the respective KIT Department must be consulted at the request of a member of the examination committee.

(7) The student is informed in writing about incriminating decisions by the examination committee. These decisions must be justified and provided with an information on legal remedies available. Prior to a decision, the student must be given the opportunity to comment. Objections against decisions made by the examination committee must be made to the latter within one month upon receipt of the decision. In case of objections, the executive board member responsible for higher education decides.

Article 17 – Examiners and Associates

(1) The examination committee appoints the examiners. It may transfer this task to its chairperson.

(2) Examiners are university professors of KIT, habilitated members, and academic staff members from the KIT Departments of Civil Engineering, Geo- and Environmental Sciences; Chemistry and Biosciences; Chemical and Process Engineering; Electrical Engineering and Information Technology; Informatics; Mechanical Engineering;

Mathematics; Physics; and Business and Economics, who have been authorized to examine students according to Article 14, par. 2 and Article 14b, par. 1, No. 1 KITG in conjunction with Article 52, par. 1, cl. 6, second part LHG. For appointment as examiner, persons must have the scientific qualification corresponding to the examination subject at least.

(3) If courses are held by persons other than those mentioned in par. 2, these must be appointed examiners, if they have the scientific qualification required in par. 2, cl. 2.

(4) In the individual case, the examination committee may also appoint external persons examiners of master's theses. Paragraph 2, cl. 2 applies accordingly.

(5) Associates are appointed by the examiners. Persons having the scientific qualification corresponding to the examination subject at least may be appointed associates exclusively.

Article 18 – Recognition of Coursework and Examinations as well as of Study Periods

(1) Coursework and examinations made as well as study periods passed in study programs at state or state-recognized universities and cooperative state universities of the Federal Republic of Germany or at foreign state or state-recognized universities are recognized at the request of the students, if the competences acquired do not differ considerably from the achievements or degrees to be replaced. For this, no schematic comparison, but an overall analysis is made. As regards the scope of a coursework or examination to be recognized (credited), the principles of the ECTS are applied.

(2) The students submit the documents required for recognition. Students newly enrolled in the Master's Program of Computational and Data Science submit the application together with the documents required for recognition within the first semester upon enrollment. If documents are not available in the German or English language, an officially certified translation may be requested. The examination committee bears the burden of proving that the application does not meet the recognition requirements.

(3) If achievements not made at KIT are recognized, they are listed as “anerkannt” (recognized) in the certificate. If grades exist, they are taken over in case of comparable grade scales and are included in the calculation of module grades and the total grade. In case of incomparable grade systems, the grades can be converted. In the absence of grades, the note “bestanden” (passed) is entered.

(4) When recognizing coursework and examinations passed outside of the Federal Republic of Germany, the equivalence agreements adopted by the Conference of Ministers of Education and the German Rectors’ Conference as well as agreements concluded within the framework of university partnerships must be considered.

(5) Knowledge and skills acquired outside of the university system are recognized, if they are equivalent to the coursework and examinations to be replaced in terms of contents and level and if the institution, where the knowledge and skills were acquired, has a standardized quality assurance system. Recognition may be refused in parts, if more than 50% of the university’s study program are to be replaced.

(6) The examination committee is responsible for recognitions and crediting. To determine whether a considerable difference in the sense of par. 1 exists, the responsible subject representatives must be heard.

II. Master’s Examination

Article 19 – Scope and Type of the Master’s Examination

(1) The master’s examination consists of the module examinations according to pars. 2 and 3 and the master’s thesis module (Article 14).

(2) Module examinations must be passed in the following mandatory subjects:

1st subject: Mathematics for Computational and Data Science in the amount of 16 – 32 credits

2nd subject: Computer Science in the amount of 16 - 32 credits

3rd subject: Hackathon, High Performance Computing and Research Data Management in the amount of 6 credits

4th subject: Key Qualifications in the amount of 4 credits according to Article 15 a.

The modules available for selection and their assignment to subjects are specified in the module handbook.

(3) In the area of mandatory electives, module examinations must be passed in the following subjects:

1. Sciences, Engineering, Economics in the amount of 16 – 32 credits.

Within this subject, one of the following profiles must be chosen:

- a) Business and Economics,
- b) Computational Chemistry,
- c) Computational Earth System Sciences,
- d) Computational Mechanics and Thermodynamics,
- e) Computational Physics,
- f) Electrical Engineering and Information Technology,
- g) Process Engineering,
- h) Robotics and Autonomous Systems.

The modules available for selection and their assignment to profiles are specified in the module handbook.

2. One of the following specializations in the amount of 16 – 32 credits each must be selected:

- a) Specialization Mathematics for Computational and Data Science
- b) Specialization Computer Science
- c) Specialization Sciences, Engineering, Economics. In this specialization, the profile chosen in the subject of Sciences, Engineering, Economics must be selected.

The modules assigned to these specializations are specified in the module handbook.

(4) The total number of credits reached in the mandatory subjects of Mathematics for Computational and Data Science, Computer Science, and the two mandatory electives of Sciences, Engineering, Economics and Specialization must be 80 at least. The

amount of 80 credits may be exceeded once only when registering for a module examination.

Article 20 – Passing of the Master’s Examination, Calculation of the Total Grade

(1) The master’s examination is passed, if all module examinations mentioned in Article 19 were passed.

(2) The total grade of the master’s examination is the mean of the subject grades and the master’s thesis module grade weighted with the credits.

(3) In case the students have completed the master’s thesis with the grade 1.0 and the master’s examination with an average of 1.2 or better, the rating “mit Auszeichnung” (with distinction) is granted.

Article 21 – Master’s Transcript, Master’s Certificate, Diploma Supplement, and Transcript of Records

(1) Upon evaluation of the last examination, a master’s certificate and a transcript must be issued about the master’s examination not later than three months upon the last examination. The master’s certificate and transcript are issued in the German and English languages. The master’s certificate and transcript bear the date of the successful completion of the last examination. They are handed over to the students together. The master’s certificate documents conferral of the academic master’s degree. The master’s certificate is signed by the President of KIT and provided with the seal of KIT.

(2) The transcript lists the subject and module grades, the credits assigned to the modules and subjects, and the total grade. If a differentiated evaluation of individual examinations was made according to Article 7, par. 2, cl. 2, the respective decimal grade is indicated in the transcript. Article 7, par. 4 remains unaffected. The transcript is signed by the KIT Dean of the KIT Department of Mathematics.

(3) In addition, the students are given a diploma supplement in the German and English languages, which corresponds to the requirements of the applicable ECTS Users' Guide, as well as a transcript of records in German and English.

(4) The transcript of records lists in a structured form all coursework and examinations passed by the student. It includes all subjects and subject grades as well as the assigned credits, the modules assigned to the respective subject with the module grades and the credits assigned, as well as the controls of success assigned to the modules together with the grades and the credits. Paragraph 2, cl. 2 applies accordingly. The transcript of records clearly reflects the assignment of controls of success to the individual modules. Credited coursework and examinations are included in the transcript of records. All additional achievements are listed in the transcript of records.

(5) The master's certificate, master's transcript, and the diploma supplement, including the transcript of records, are issued by the Students Office of KIT.

III. Final Provisions

Article 22 – Certificate of Examination Achievements

In case students have ultimately failed in the master's examination, they must be given at request and against submission of the exmatriculation certificate a written certificate about the coursework and examinations made and the respective grades, which reveals that the overall examination has not been passed. The same applies when the entitlement to an examination has expired.

Article 23 – Deprivation of the Master's Degree

(1) If students have been guilty of deception during an examination and if this fact becomes known upon the hand-over of the certificates only, the grades of the module examinations, during which the students were guilty of deception, can be corrected. If applicable, this module examination may be declared to have been "nicht ausreichend"

(5.0, failed) and the master's examination may be declared to have been "nicht bestanden" (failed).

(2) If the conditions for admission to an examination were not fulfilled without the student wanting to deceive and if this fact becomes known upon the hand-over of the certificate only, this default is remedied by the passing of the examination. If the student intentionally and wrongly obtained admission to the examination, the module examination may be declared to have been "nicht ausreichend" (5.0, failed) and the master's examination may be declared to have been "nicht bestanden" (failed).

(3) Prior to a decision of the examination committee, the student is given the opportunity to comment.

(4) The incorrect certificate is confiscated and, if applicable, a new certificate is issued. Together with the incorrect certificate, the master's certificate is also confiscated, if the master's examination was declared to have been "nicht bestanden" (failed) due to a deception.

(5) A decision pursuant to par. 1 and par. 2, cl. 2 is excluded after a period of five years upon the date of issue of the certificate.

(6) Deprivation of the academic degree is subject to Article 36, par. 7 LHG.

Article 24 – Inspection of Examination Files

(1) Upon completion of the master's examination, the students are granted the right to inspect the examination copy of their master's theses, the related opinions, and minutes of the examinations within one year at request.

(2) For inspection of the written module examinations, written module part examinations, and examination minutes, a deadline of one month after announcement of the examination result applies.

(3) The examiner determines the place and time of inspection.

(4) Examination documents must be kept for at least five years.

Article 25 – Entry into Force

The present Studies and Examination Regulations enter into force on October 01, 2026.

Karlsruhe, April 14, 2026

Professor Dr. Jan S. Hesthaven

(President)