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Examination and Study Regulations
for the International Master's Elite Graduate Programme
Scientific Computing
as part of the Elite Network of Bavaria (ENB)
at the University of Bayreuth
dated 25 September 2024
as amended on 25 February 2026

Pursuant to Article 9 sentence 1 in conjunction with Article 80 para. 1 sentence 1 and Article 84 para. 2 sentence 1 of the Bavarian Higher Education Innovation Act (BayHIG), the University of Bayreuth issues the following regulations:

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§ 1

General Examination and Study Regulations

¹The International Master's Elite Graduate Programme Scientific Computing is governed by the General Examination and Study Regulations for the Bachelor's and Master's Programmes at the University of Bayreuth (APSO). ²Supplementary and deviating provisions for the master's programme Scientific Computing are set out in these regulations.

§ 2

Aim and Structure of the Degree Programme

(1) ¹The interdisciplinary approach of this English-taught Master's Elite Graduate Programme enables students to acquire and apply specialist knowledge in numerical methods for solving differential and integral equations and in data analysis, while at the same time broadening their horizons to other subject areas. ²The master's examination, which concludes the academic studies in the master's programme Scientific Computing, determines whether the student has acquired the specialist knowledge provided for in these regulations and possesses the following competences:

- ability to abstract,
- precision in analytical thinking,
- truthfulness in argumentation,
- demonstrated ability to structure complex interrelationships,
- a high level of perseverance in solving difficult problems,
- broad insight into interdisciplinary contexts,
- a sound ability to apply mathematical methods to complex scientific and technical problems and to implement them appropriately on modern computing systems,
- the ability to carry out advanced independent academic work,
- the ability to contribute, as a responsible mathematician, to interdisciplinary teams of mathematicians, computer scientists, natural scientists, engineers, and economists in industry and business.

³The master's programme Scientific Computing, including all examinations, is conducted in English. ⁴Upon passing the master's examination, the University of Bayreuth, through the Faculty of Mathematics, Physics & Computer Science, awards the academic degree Master of Science (abbreviated: M.Sc.).

- (2) The provisions governing the internship are set out in Annex 1.
- (3) ¹The master's programme may be completed as a full-time degree programme. ²The degree programme may be commenced in either the winter semester or the summer semester.

§ 3

Admission to the Degree Programme

- (1) The prerequisites for admission to the master's programme are:
 - 1. a university degree with an examination grade of at least 1.9 in a bachelor's programme in mathematics, computer science, natural sciences, or engineering at the University of Bayreuth, or an equivalent degree, and
 - 2. demonstrated knowledge of numerical mathematics amounting to at least 16 credit points. Applicants who are unable to provide evidence of this knowledge will be enrolled on the condition that they submit the required evidence by the end of the second semester at the latest, and
 - 3. proof of English language proficiency at level B2 or higher of the Common European Framework of Reference for Languages for applicants who obtained neither their higher education entrance qualification nor the first degree qualifying them for admission to the programme in English, and
 - 4. proof of German language proficiency at level A1 or higher of the Common European Framework of Reference for Languages for applicants who obtained neither their higher education entrance qualification nor the first degree qualifying them for admission to the programme in German. Applicants who do not meet this requirement will be enrolled on the condition that they submit proof of the required language proficiency by the end of the second semester at the latest, and
 - 5. determination of programme-specific aptitude in a process pursuant to Annex 2.
- (2) ¹The qualifications may not differ substantially, in terms of the competences acquired, from the qualifications referred to in para. 1 no. 1. ²Where substantial differences exist that can be compensated for, applicants may be admitted subject to the condition that, in addition to the coursework and examinations to be completed in the master's programme and the requirements under para. 1 no. 2, they successfully complete coursework and examinations amounting to no more than 10 credit points from one of the bachelor's programmes referred to in para. 1 no. 1 by the end of the second semester at the latest; otherwise, the prerequisites for admission to the degree programme shall be deemed not to have been met. ³The provisions of the (subject-

specific) examination and study regulations for the bachelor's programmes at the University of Bayreuth referred to in para. 1 no. 1 apply in their current version. ⁴Article 86 BayHIG applies to the determination of whether domestic and foreign degrees are eligible for recognition. ⁵Decisions in the cases referred to in paras. 1 and 2 are made by the board of examiners.

- (3) ¹If the certificate for the relevant first degree is not yet available, confirmation showing the individual grades for all examinations and coursework completed by the application deadline must be submitted. ²These achievements must amount to at least 150 credit points in total and, according to the calculation of the overall grade, must correspond to a grade of at least 1.9. ³Applicants who meet the requirements of sentence 2 will be enrolled on the condition that they submit the certificate for the relevant first degree with a grade of at least 1.9 by the end of the second semester.

§ 4

Additions and Deviations

- (1) Deviations from and additions to § 2 para. 1 APSO:
1. Notwithstanding sentences 3 and 4, the board of examiners consists of four members and three substitute members and is elected by the Faculty Council of the Faculty of Mathematics, Physics & Computer Science for a term of five years from among the university lecturers involved in the Elite Graduate Programme (Article 19 para. 1 sentences 1 and 3 BayHIG).
 2. In addition to sentence 5, the board of examiners may decide to transfer the chair to another member of the board of examiners if the chairperson retires on account of age during their term of office.
- (2) Additions to § 6 APSO:
1. Additional modules in the core elective areas (B1, B2, B3, C1) may be taken beyond the required scope; para. 3 must be observed. There is no obligation to repeat additional modules that have not been passed. If a student wishes to take additional modules, they must specify when registering for the corresponding module that it is an additional module. Grades earned in additional modules are not included in the overall grade. Additional modules are shown on the certificate unless the student requests otherwise.
 2. A doctorate may be pursued within the framework of a fast-track procedure. Admission to one of the doctoral programmes (e.g. Computational Mathematics in Science and Engineering (BayCompMath)) of the Bayreuth Graduate School of Mathematical and Natural Sciences (BayNAT) may take place in accordance with § 4 para. 2 of the Doctoral

Regulations of the Bayreuth Graduate School of Mathematical and Natural Sciences (BayNAT).

- (3) ¹Notwithstanding § 14 para. 1 APSO, the overall grade for the master's examination is calculated as the arithmetic mean, weighted by credit points, of the module grades pursuant to Annex 1 and the grade for the master's thesis. ²Only the first decimal place is taken into account; all further decimal places are discarded without rounding. ³The best 40 credit points from core elective area B are included in the calculation of the overall grade. ⁴If the credit points completed in core elective area B exceed the number required for this module area, the module with the lowest grade is included in the calculation of the overall grade only on a pro rata basis to the extent of the credit points required. ⁵If modules from area B1 are completed, the module with the best grade amounting to 8 credit points is included in the calculation of the overall grade.
- (4) In addition to § 15 APSO, failed core elective modules do not have to be repeated.
- (5) Deviations from and additions to § 31 APSO:
1. Notwithstanding para. 2 sentence 2, the topic of the master's thesis is assigned by a university lecturer involved in the Elite Graduate Programme via the chair of examiners, generally at the end of the second semester in the full-time programme. Notwithstanding para. 2 sentence 4, the master's thesis is integrated into the full-time programme in the third and fourth semesters.
 2. Notwithstanding para. 3 sentence 2, the period from assignment of the topic to submission of the master's thesis is ten months in the full-time programme.
 3. In addition to para. 5, at the request of the examiners, a typed, bound, and paginated copy of the master's thesis must also be submitted to them by the deadline.
 4. Notwithstanding para. 8 sentences 1 and 2, if the two reviewers arrive at different assessments, they shall hold a discussion in which they attempt, taking academic considerations into account, to agree on a grade. If they cannot reach agreement, they shall inform the chair of examiners. In such cases, the chair appoints a third reviewer, who determines the final grade on the basis of the two assessments already available.
 5. In addition to § 31, the master's thesis may also be completed as part of a fast-track doctorate in one of the doctoral programmes (e.g. Computational Mathematics in Science and Engineering (BayCompMath)) of the Bayreuth Graduate School of Mathematical and Natural Sciences (BayNAT).

§ 5

Effective Date

- (1) ¹These regulations enter into force on 26 September 2024. ²They apply to students who are enrolled in the International Master's Elite Graduate Programme Scientific Computing or who commence this degree programme from the winter semester 2024/2025 onwards.*)
 - (2) Upon entry into force of these regulations, the Examination Regulations for the International Master's Elite Graduate Programme Scientific Computing as part of the Elite Network of Bavaria (ENB) at the University of Bayreuth dated 7 June 2019 (AB UBT 2019/016), last amended by regulations dated 5 April 2024 (AB UBT 2024/020), cease to be in force.
- *) The Amendment Regulations dated 25 February 2026 contain the following provision on entry into force:

These regulations enter into force on 26 February 2026.

Annex 1: Modules, Credit Points, and Examinations

The module areas, the respective modules, credit points (CP), and the corresponding examinations are listed below.

Modules already taken in the underlying bachelor's programme cannot be credited towards or taken again in the master's programme.

Modules that can be assigned to more than one area may be counted only once. Double counting is not permitted.

The master's programme Scientific Computing has a modular structure and consists of the following sub-areas:

Module area A: Mathematical Foundation

This module area provides the foundations in applied mathematics and, in particular, in numerical methods for partial differential equations required for the degree programme.

Module A1: Numerical Methods for Partial Differential Equations

If the content of module A1 has already been acquired during the bachelor's programme, a module worth at least 6 CP from the core elective modules B1 must be selected instead of A1. In this case, no more than a further 8 CP may be counted in module area B1.

Module A2: Applied Functional Analysis

If the content of module A2 has already been acquired during the bachelor's programme, modules totalling 8 CP from the core elective modules B2 must be selected instead of A2.

Module area B: Scientific Computing

Core elective modules B1: Advanced Topics in Numerical Mathematics

Further modules totalling no more than 16 or 8 CP (cf. A1), respectively, must be completed from the modules listed in the table.

Core elective modules B2: Modeling and Simulation

Further modules totalling 8 to 16 CP must be completed from the modules listed in the table. Modules amounting to at least 8 CP must come from non-mathematical course offerings. Upon application, the board of examiners may approve modules from other fields of application, provided

they meet the above requirements. The board of examiners may also approve foundation modules from the respective field of application if they are required for successful participation in a module.

Core elective modules B3: Complexity Reduction

These modules address current methods based on reducing the information content of a problem or of data sets. Complexity is reduced to such an extent that the problem can be handled efficiently on parallel computers. Modules totalling 16 to 24 CP must be completed from the modules listed in the table.

Module area C: High-Performance Computing

Another central component of the degree programme is the appropriate and efficient implementation of mathematical methods on high-performance computers.

Core elective module C1: High-Performance Computing

Modules totalling 12 CP must be completed from the modules listed in the table.

Module C2: Computer Practical Course: Parallel Numerical Methods

Module area D: Specialisation and Training

Module D1: Special Skills in Scientific Computing

One specialisation module worth 4 CP from the research areas listed under B1 or B3.

Module D2: Industrial Internship

To apply the methods they have learned and gain impetus for their own research, students complete an industrial internship lasting at least six weeks. As a rule, students are responsible for organising the industrial internship themselves, integrating it into their studies, and completing it within the standard period of study. Students may obtain assistance in organising the industrial internship from academic staff involved in the Elite Graduate Programme. A report of at least ten pages must be submitted within four weeks of completing the internship. The internship is assessed as 'passed' or 'failed'. As an alternative to the industrial internship, students may successfully complete further modules totalling 8 CP from the core elective modules B3.

Module D3: Modeling and Status Seminar

The module comprises the programme's annual Modelling Week and annual Status Seminar. Students are required to participate actively in two instances of each event. During the Modelling

Week, which is held as a block seminar outside the University, students work in groups to formulate current scientific and technical problems mathematically and apply modern numerical methods to them. The results are presented and discussed at the end in presentations lasting 30 to 60 minutes. In addition, a written paper of at least ten pages must be submitted no later than four weeks after the end of the Modelling Week. The oral presentation and written paper are each assessed on a group basis. In the Status Seminar, students give a short presentation lasting 15 to 30 minutes on their activities, progress in their studies, and the results of their own research.

Module area E: Soft Skills

To develop non-subject-specific key skills (speaking and presentation techniques, computer use, literature research, use of specialist literature in foreign languages, teamwork), students must attend seminars totalling 60 hours. This corresponds to three to four seminars. The module is assessed on the basis of the corresponding certificates of attendance and is graded as 'passed' or 'failed'.

Module area F: Master's Thesis

During the first year, students make contact with one of the research groups involved in the Elite Graduate Programme. Taking their research interests into account, students select, with the support of one or more supervisors from among the university lecturers involved in the Elite Graduate Programme, a research topic for a master's thesis that also offers potential for a subsequent doctorate. The master's thesis should address interdisciplinary and application-oriented questions and relate to the focus of the Scientific Computing degree programme. Identifying a topic in cooperation with an industrial company, other research institutions, or public authorities is expressly encouraged. To support work on the topic that is as efficient and successful as possible, students should be placed with recognised experts in the relevant fields for research stays lasting several weeks.

Deviations from § 9 APSO:

- Notwithstanding para. 2 sentence 4, if the two examiners arrive at different assessments of a written examination, they shall hold a discussion in which they attempt, taking academic considerations into account, to agree on a grade or on 'passed' or 'failed'. If they cannot reach agreement, they shall inform the chair of examiners. In such cases, the chair appoints a third examiner, who determines the final grade on the basis of the two assessments already available.
- Notwithstanding para. 9 sentence 2, presentations may last up to 60 minutes.

Abbreviations:

	Vertical lines between types of examination indicate possible alternatives.
+	Plus signs indicate several assessment components to be completed.
x/y	Fractions indicate the weighting with which the respective assessment component is included in the module grade.
*	Assessment components marked with '*' are not included in the calculation of the module grade or overall grade.
K	written examination
mP	oral examination
P	presentation
B	contribution
sA	written paper

Module areas Modules	CP	Type of examination
A: Mathematical Foundation	14	
A1 Numerical Methods for Partial Differential Equations	6	K mP
A2 Applied Functional Analysis	8	K mP
B: Modeling and Simulation	40	
Core elective modules B1: Advanced Topics in Numerical Mathematics	0-16 or 0-8	
B1.1 Numerical Methods for General Types of PDEs	8	K mP
B1.2 Discontinuous and Multiscale Methods for PDEs	8	Portfolio examination: (K mP) + (K mP)
B1.3 Constructive Approximation Methods	8	K mP
B1.4 Mathematical Control Theory	8	K mP
B1.5 Nonlinear Optimization	8	K mP
B1.6 Optimization of Partial Differential Equations	8	K mP
Core elective modules B2: Modeling and Simulation	8-16	
B2.1 Partial Differential Equations and Integral Equations	8	K mP
B2.2 Modeling with Differential Equations	4	K mP
B2.3 Mathematical Modeling for Climate and Environment	8	K mP
B2.4 Ergodic Theory and Data Science	8	K mP
B2.5 Pattern Recognition	4	mP
B2.6 Mechanics of Continua	8	K mP
B2.7 Molecular Dynamics Simulations of Biophysical Systems	4	K mP
B2.8 Bioinformatics: Molecular Modeling	4	K mP
B2.9 Foundations of Bioinformatics	4	K mP
B2.10 Quantum Chemistry: Methods and Algorithms	4	K mP
B2.11 Advanced Strengths of Materials	4	K

Module areas Modules	CP	Type of examination
B2.12 Computer Aided Engineering	4	Portfolio examination: K + sA
B2.13 Advanced Programming for Engineers	4	mP
B2.14 Model Building and Simulation of Electrochemical Storage	4	Portfolio examination: mP 3/5 + sA 2/5
B2.15 Foundations of Data Management	4	K mP
Core elective modules B3: Complexity Reduction	16-24	
B3.1 Efficient Treatment of Non-local Operators	8	K mP
B3.2 Fast Methods for Differential and Integral Equations	8	K mP
B3.3 Numerical Methods for Uncertainty Quantification	4	K mP
B3.4 High-dimensional Approximation	4	K mP
B3.5 Data Analytics	8	K mP
B3.6 Complexity Reduction in Control	4	K mP
B3.7 Meshfree Methods	4	K mP
B3.8 Boundary Element Methods	4	K mP
B3.9 Optimization in Data Science	8	K mP
C: High-Performance Computing	14	
Core elective modules C1: High-Performance Computing	12	
C1.1 Algorithms and Data Structures II	8	K mP
C1.2 Algorithms and Data Structures III	4	K mP
C1.3 Parallel and Distributed Systems I	4	K
C1.4 Parallel and Distributed Systems II	4	K
C1.5 High-Performance Computing	8	K
C1.6 Parallel Algorithms	4	K mP
C1.7 Programming and Data Analysis in Python	4	K mP

Module areas Modules	CP	Type of examination
C2 Computer Practical Course: Parallel Numerical Methods	2	mP
D: Specialisation and Training	20	
D1 Special Skills in Scientific Computing	4	K mP
D2 Industrial Internship or alternative modules totalling 8 CP from the core elective modules B3	8	B K mP *
D3 Modeling and Status Seminar	8	Portfolio examination: $P \frac{1}{4} + P \frac{1}{4} + sA \frac{1}{4} +$ $sA \frac{1}{4} + P^* + P^*$
E: Soft Skills	2	Certificates of attendance* for seminars totalling 60 h (equivalent to 3–4 seminars)
F: Master's Thesis	30	Master's thesis
Total	120	

Annex 2: Aptitude Assessment Process

Legal basis: Article 90 para. 1 sentence 2 BayHIG

1. Purpose of the Aptitude Assessment Process

¹The aim of the aptitude assessment process is to provide qualified and particularly high-achieving students with access to the Elite Graduate Programme Scientific Computing. ²The aptitude assessment process plays a particular role in interdisciplinary, internationally oriented elite degree programmes because it is aimed at applicants from different academic cultures, grading cultures, and countries of origin. ³The supplementary selection process assesses applicants' aptitude.

2. Committee Responsible for Conducting the Aptitude Assessment Process

¹A committee is responsible for preparing and conducting the aptitude assessment process. ²The committee consists of the board of examiners pursuant to § 2 para. 1 APSO in conjunction with § 4 para. 1 of these regulations, as well as no more than two members from among the university lecturers (Article 19 para. 1 sentences 1 and 3 BayHIG) and no more than three other members of the full-time academic staff who are authorized to administer examinations and are involved in this degree programme. ³The representatives are appointed by the Faculty Council of the Faculty of Mathematics, Physics & Computer Science before each aptitude assessment process.

3. Process for Determining Aptitude

3.1 ¹The aptitude assessment process is conducted twice a year, in the summer and winter semesters. ²Applications for admission to the aptitude assessment process must be submitted online to the University of Bayreuth. ³The online application form is made available on the University's website. ⁴The online application must be received electronically by the University of Bayreuth by 15 May of the respective year for admission to the following winter semester or by 15 November of the previous year for admission to the following summer semester (cut-off deadlines). ⁵Documents pursuant to nos. 3.2.2 and 3.2.5, as well as other relevant documents for reviewing the relevant first degree, may be submitted subsequently by 15 June for the winter semester and by 15 December for the summer semester.

3.2 The following must be enclosed with the fully completed application pursuant to no. 3.1 sentence 2:

3.2.1 A cover letter in English briefly explaining the reasons for applying.

3.2.2 ¹The certificate for the relevant first degree and confirmation showing the individual grades for the examinations and coursework completed during the programme of study. ²If the bachelor's degree certificate is not yet available, confirmation showing the individual grades for all examinations and coursework completed by the application deadline must be submitted. ³These achievements must amount to at least 150 credit points in total and, on average according to the calculation of the overall grade, must correspond to a grade of at least 1.9. ⁴The certificate for the relevant first degree must be submitted by the end of the second semester.

3.2.3 If applicable, a list of the modules in the relevant first degree programme for which no records of achievement can yet be submitted.

3.2.4 A curriculum vitae in tabular form as supplementary information.

3.2.5 Where available, evidence of special qualifications (e.g. vocational training, awards, internships, scholarships, periods spent abroad).

3.2.6 If applicable, an application for reasonable accommodations pursuant to § 12 APSO.

4. Admission to the Aptitude Assessment Process

4.1 Admission to the process requires the documents referred to in no. 3.2 to have been submitted by the relevant deadline.

4.2 The aptitude assessment process (no. 5) is conducted for applicants who meet the required prerequisites.

4.3 Applicants who are not admitted receive a notice of denial stating the reasons and providing information on available legal remedies; no. 6.2 applies accordingly.

5. Conduct of the Aptitude Assessment Process

5.1 ¹On the basis of the application documents submitted, the committee examines whether the applicant, by virtue of their demonstrated qualifications and the specific talents and abilities they have described, is suited to studying in the master's programme Scientific Computing. ²The assessment is made by two committee members according to the following criteria:

5.1.1 ¹The additional qualifications evidenced by the documents pursuant to nos. 3.2.2 and 3.2.5 are assessed with a maximum of 4.0 points. ²The assessment considers the extent to which the applicant's previous achievements demonstrate pronounced abilities and competences in the field of Scientific Computing and the extent to

which they show the potential to work in an interdisciplinary and international setting.³These qualifications may be demonstrated in accordance with letters a and b below:

- a) evidence of international competences, such as periods spent abroad, language courses, or attendance at courses taught in a foreign language
- b) evidence of interdisciplinary competences, such as completion of interdisciplinary courses, internships, or vocational training.

⁴The allocation of points for the individual assessments is described in more detail in no. 9.

5.1.2 ¹The subject-specific coursework and examinations completed in the bachelor's programme or an equivalent programme pursuant to § 3 are assessed with a maximum of 4.0 points. ²Specific conversion factors may be applied to applicants with foreign qualifications. ³The following are taken into account:

- performance in mathematics, including applied mathematics and numerical mathematics (max. 2 points)
- knowledge of computer science and programming skills (max. 1 point)
- knowledge in an application subject related to the fields of application represented in the degree programme (max. 1 point)

5.1.3 ¹The number of points awarded in the assessment is the sum of the individual assessments (nos. 5.1.1 and 5.1.2). ²The applicant's score is the arithmetic mean of the sums of the individual assessments made by the committee members. ³The score is rounded to one decimal place.

5.2 Applicants who achieve 5.0 or more points receive confirmation that they have passed the aptitude assessment process.

5.3 Applicants who achieve fewer than 3.0 points receive a notice of denial pursuant to no. 6.2.

5.4 ¹The remaining applicants are invited to an aptitude interview. ²The date of the interview is announced at least two weeks in advance. ³Applicants must attend the interview at the scheduled time. ⁴Applicants who fail to appear at the scheduled time are deemed to have been rejected. ⁵If an applicant is prevented from attending the aptitude interview for reasons beyond their control, an alternative date no later than two weeks before the start of lectures will be arranged upon justified request.

- 5.5 ¹The aptitude interview, which is conducted in English, is held individually with each applicant. ²The interview lasts at least 15 and no more than 30 minutes per applicant and is intended to show whether, on the basis of the applicant's knowledge and abilities, they can be expected to achieve the aim of the degree programme. ³In the interview, the applicant must confirm the impression that they are suited to the degree programme. ⁴To this end, the applicant presents their bachelor's thesis or a corresponding project in a short presentation. ⁵In the presentation and subsequent discussion, the applicant should demonstrate their subject-specific qualification and ability to communicate across disciplines. ⁶With the applicant's consent, a student representative may be admitted as an observer. ⁷The aptitude interview is conducted by two members of the committee. ⁸Each member records the result of the aptitude interview on a scale from 0 to 4.0 points, with 0 being the lowest and 4.0 the highest possible score. ⁹The presentation and discussion are to be assessed. ¹⁰The applicant's score is the arithmetic mean of the sums of the individual assessments made by the committee members. ¹¹The score is rounded to one decimal place.
- 5.6 ¹For the overall assessment in the aptitude assessment process, the result of the aptitude interview and the applicant's previous academic performance pursuant to no. 5.1.2 are added together. ²Applicants who achieve at least 5.0 points in the second stage of the aptitude assessment process receive confirmation that they have passed the aptitude assessment process. ³The remaining applicants have not passed the aptitude assessment process and receive a notice of denial stating the reasons and providing information on available legal remedies; no. 6.2 applies accordingly.
- 5.7 ¹A written record of the aptitude interview must be prepared, showing the date, duration, and place of the assessment, the names of the committee members, the name of the applicant, the committee members' assessments, and the overall result. ²The record must show the topics discussed with the applicant and the reasons for the assessment. ³The reasons and topics may be listed in note form. ⁴The record must be signed by the committee members present.

6. Determination and Notification of the Result

- 6.1 The aptitude assessment process must be documented; in particular, the decisions of the aptitude assessment committee pursuant to these regulations and the overall result must be evident.

- 6.2 ¹The result of the aptitude assessment process is communicated to the applicant in writing.
²A notice of denial must state the reasons and include information on available legal remedies.

- 6.3 Admissions granted within the aptitude assessment process for the master's programme Scientific Computing remain valid for all subsequent applications to this degree programme, provided that the content and aim of the degree programme have not changed so substantially that aptitude for the degree programme can no longer be demonstrated on the basis of an aptitude assessment process conducted at an earlier date.

7. Repeat Application

Applicants who have not demonstrated aptitude for the master's programme Scientific Computing may apply to the aptitude assessment process one more time.

8. Aptitude Assessment Process for Higher Semesters

Nos. 3 to 7 apply accordingly to applicants wishing to enter a higher semester (students transferring from another higher education institution or changing degree programmes).

9. Assessment Key

The following assessment applies to the award of points for aptitude on the basis of the documents pursuant to no. 5.1.1:

POINTS	ASSESSMENT
4.0 – 3.0 points	excellent aptitude for the degree programme
2.9 – 2.0 points	above-average aptitude for the degree programme
1.9 – 1.0 points	average aptitude for the degree programme
0.9 – 0.0 points	below-average aptitude for the degree programme