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Faculty of Mathematics and Computer Science:

Following the resolution of the Faculty Council of the Faculty of Mathematics and Computer Science dated 12.01.2022 and the Senate of the University of Göttingen dated 23.02.2022, the Foundation Committee of the University of Göttingen Foundation under Public Law approved the first amendment of the regulation governing qualifications for entry and admission for the consecutive Master's degree programme „Applied Data Science“ on 24.03.2022 in the version published on 14.04.2021 (Official Announcements I no. 20/2021 p. 372) (§ 44 section 1 sentence 1 NHG in the version of the announcement dated 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 1 of the Act dated 27.01.2022 (Nds. GVBl. p. 54); § 41 section 1 sentence 1 NHG in conjunction with § 18 section 6 sentence 3, section 8 sentence 4 NHG and § 7 section 1 sentence 1 NHZG in the version of the announcement dated 29.01.1998 (Nds. GVBl. p. 51), last amended by Article 2 of the Act dated 19.11.2019 (Nds. GVBl. p. 333); § 62 section 4 sentence 1 NGH, § 60 a section 1 sentence 1 NHG in conjunction with § 18 section 6 sentence 3, section 8 sentence 4, section 14 NHG and § 7 section 2 NHZG).

**Regulation governing qualifications for entry and admission
for the consecutive Master's degree programme „Applied Data Science“**

I. Scope

§ 1 Scope

- (1) These regulations govern entry and admission for the consecutive Master's degree programme “Applied Data Science”.
- (2) The university conducts an autonomous procedure in accordance with the following provisions to determine the qualifications for entry for all university places to be awarded in the degree programme “Applied Data Science”.
- (3) ¹If the number of applicants who meet the qualifications for entry exceeds the available university places, the university shall award the places based on the results of its own selection procedure. ²If the number of applicants who meet the qualifications for entry falls short of the available places, no selection procedure shall take place.

II. Authorisation for admission

§ 2 Qualifications for entry

(1) ¹It is a requirement for entrance to the Master's degree programme that the applicant possesses the professional competence. ²Candidates shall be deemed to possess the relevant professional competence if they have completed a technically relevant course of studies to Bachelor's degree level with a standard course length of at least six semesters and a total of at least 180 ECTS credits, or an equivalent degree programme in Computer Science, Data Science, Statistics, Mathematics or in a closely related subject area in accordance with section 3 at a German university or a university in one of the Bologna signatory states. ³Final examinations which have been passed in a country outside the Bologna signatory states require the determination of equivalence with the qualifications in accordance with sentence 1, taking into account the proposals of the Central Office for Foreign Education (ZAB) at the Office of the Standing Conference of the Ministers of Education and Cultural Affairs of the Federal States in the Federal Republic of Germany (KMK) for the recognition and assessment of foreign certificates of academic qualification, which can be found under the URL <http://anabin.kmk.org>. ⁴The grades of the foreign certificates of academic qualification must be converted to the German grading system.

(2) ¹Notwithstanding section 1, eligibility shall be considered proven by applicants who have not yet completed a course of studies at the time of application, but have acquired at least 135 credits in a relevant Bachelor's degree programme in accordance with section 3, or in an equivalent degree programme. ²The average grade calculated from the previous examination components is also taken into consideration in the selection procedure in place of the Bachelor grade or the grade of an equivalent certificate of academic qualification, irrespective of whether the result of the Bachelor's examination deviates from this.

(3) ¹The decision as to whether a preliminary course of studies is relevant within the meaning of sections 1 and 2 shall be made by the selection committee. ²It is a requirement for the technical relevance of the preliminary course of studies that proof is provided of performance in Data Science, Computer Science, Statistics or Mathematics. ³The selection committee may require the completion of pending examination components in accordance with sentence 2 within two semesters for assessing the technical relevance; in this case, determination of technical relevance and admission are conditional on proof of the pending examination components, which should be submitted within two semesters from the time of enrolment at the university (closing date). ⁴If proof of the pending examination components is not submitted by the deadline, assessment of the relevance of the subject and any letter of admission based on this shall become invalid. ⁵Assessment of technical relevance shall not be possible if the

components in accordance with sentences 2 and 3 that have not yet been performed have a rating of more than 15 credits.

(4) In deviation from section 3, foreign nationals and stateless persons with a recognised prior education certificate who are neither equivalent to Germans according to legal regulations nor nationals of another member state of the European Union or another state party to the Agreement on the European Economic Area nor have acquired their Bachelor's degree or an equivalent degree at a German higher education institution or at a higher education institution of another member state of the European Union or another state party to the Agreement on the European Economic Area shall additionally prove the subject-related relevance of their prior studies by successfully completing an aptitude test in accordance with § 3.

(5) ¹Applicants whose native language is not German and who neither meet a German university entrance qualification nor have acquired their Bachelor's degree or an equivalent degree at a German university must demonstrate sufficient proficiency in the German language. ²Proof of this should be demonstrated by a test with an average grade point of DSH-2 in accordance with the examination regulation for the German language test for university admission of foreign prospective students (DSH). ³The obligation to take the test need not be met by applicants who are exempted from the German language test for admission to colleges and universities in accordance with the examination regulations for the German language test for the admission of foreign students to colleges and universities (DSH) at the University of Göttingen; this applies in particular to those applicants who have proven the required German language skills on the basis of successful completion of the Test of German as a Foreign Language (TestDaF) with at least four times TestDaF grade level 4 (TDN 4) or the German examination module of the assessment test during the preparatory course.

(6) ¹Applicants whose native language is not English must show adequate English language skills. ²Adequate knowledge of English must be demonstrated with standardised or accredited certificates at minimum B2 level or higher in accordance with the Common European Framework of Reference for Languages (CEFR). ³The following in particular shall serve as proof:

- a) UNICert®: min. certificate UNICert® II;
- b) NULTE certificate: min. level B2;
- c) Cambridge English Scale: min. 160 points;
- d) International English Language Testing System (IELTS Academic): min. band 5.5;
- e) Test of English as a Foreign Language, internet-based test (TOEFL iBT): min. 81 points;
- f) Global Scale of English (Pearson Academic): min. 59 points.

⁴Successful completion of tests (a-f) may not have taken place more than two years before receipt of the application for admission. ⁵At least one year of residence in an English-speaking

country for the purpose of study or work, or an average grade of at least 8 points in the subject of English within the two school years before achieving the university entrance qualification, also constitutes proof of adequate English language proficiency.

(7) ¹Applicants whose native language is English or who possess very good English-language skills are not required to provide proof in accordance with sections 5 and 6. ²Adequate knowledge of English must be demonstrated with standardised or accredited certificates at minimum C1 level or higher in accordance with the Common European Framework of Reference for Languages (CEFR). ³The following in particular shall serve as proof:

- a) UNICert®: min. certificate UNICert® III;
- b) NULTE certificate: min. level C1;
- c) Cambridge English Scale: min. 180 points;
- d) „International English Language Testing System” (IELTS Academic): min. band 6.5;
- e) „Test of English as a Foreign Language, internet-based test” (TOEFL iBT): min. 95 points;
- f) Global Scale of English (Pearson Academic): min. 76 points.

⁴Successful completion of tests (a-f) may not have taken place more than two years before receipt of the application for admission. ⁵At least two years of residence in an English-speaking country for the purpose of study or work within the three years before receipt of the application for admission, or successful degree earned in a degree programme in the English language lasting at least two years, also constitute proof of very good English language proficiency.

(8) ¹In all other respects, the general provisions of the regulation applying to enrolment at the university remain unaffected. ²Enrolment of applicants who are provisionally authorised for admission in accordance with section 2 is conditional upon submission of proof of successful completion of the Bachelor's course of studies or an equivalent course of studies. ³The proof must be provided by the end of 15/11 for enrolment in the winter semester and by the end of 15/05 for enrolment in the summer semester. ⁴Provided the Dean determines, on the basis of the periods of studies so far, in particular the present examination components, that the applicant will attain the degree at the latest by the end of the first semester of the Master's degree programme, the deadline in accordance with sentence 3 shall be extended to the end of 31/03 for enrolment for a winter semester and to the end of 30/09 for enrolment for a summer semester. This determination is only admissible provided

- a) only a research-related internship and the final thesis are missing as examination achievements or
- b) the thesis has already been submitted to the university and the amount of the examination components that are still missing does not exceed ten credits.

§ 3 Aptitude test

(1) ¹The aptitude test is intended to show the extent to which the applicant has completed a relevant previous course of study against the background of previous study experience and is suitable for study in the consecutive Master's degree programme "Applied Data Science". ²The examination covers knowledge and skills in the fields of computer science, mathematics and statistics.

(2) ¹In order to participate in the aptitude test, the applicant must register via an online portal provided by the University. ²After registration, applicants receive an individual access code.

(3) The following principles apply when the aptitude test is conducted:

- a) The test is offered via the learning platform "OpenLIAS" of the University of Göttingen and is carried out within two weeks after the application deadline. Within the test period, the test can be taken at any time by registered applicants, but only once per applicant; the individual access code is used up when the test begins.
- b) The aptitude test is conducted in English.
- c) The aptitude test is conducted as a multiple-choice or multiple-select test. For the electronically presented multiple-choice or multiple-select tasks (MC tasks), the applicant must indicate which of the answers presented in the MC tasks he or she considers to be correct or incorrect. At least four answers must be given in an MC task.
- d) An applicant who fails to take the aptitude test within the period specified in letter a) without good cause shall be excluded from the further procedure. An excluded applicant is entitled to participate again in the next possible aptitude test.

(4) ¹The criterion for the degree of suitability is the total number of MC tasks answered correctly or the total number of points achieved. ²Satisfactory performance is deemed to have been achieved if the applicant has answered at least 60 percent of the MC tasks correctly or has achieved at least 60 percent of the points or if the number of MC tasks answered correctly by the applicant or the number of points achieved by the applicant is not more than 10 percent below the average performance of the participants. ³The applicant shall be notified of the result of the aptitude test in text form.

III. Selection procedure

§ 4 Start of programme, application for admission, closing date

(1) ¹The Master's degree programme starts in both the summer and winter semesters. ²Applications for admission must be submitted via the university's online portal. They must be received by the university together with the application documents required in accordance with section 2 by 01/05 (closing date) for the winter semester and by 01/11 of the previous year (closing date) for the summer semester. ³The application applies only to the award of university

places for the relevant admission date. ⁴The university is not obliged to review the details of the applicants ex officio.

(2) The following documents must be enclosed with the application for admission; they must be uploaded to the university server over the online portal:

- a) the applicant's degree certificate(s) in German or English translations if the originals are not in English or German; if a degree certificate is not yet available, a certificate of the examination results acquired, the credits and the average grade should be submitted;
- b) a curriculum vitae in tabular form written in German or English with a meaningful presentation of the educational background;
- c) proof of sufficient German and English language skills in accordance with § 2 section 5, 6 or proof of very good English language skills in accordance with § 2 section 7;
- d) if applicable, the result of the aptitude test according to § 3;
- e) a declaration on whether the applicant has successfully / unsuccessfully completed a Master's degree programme in the same discipline or has not yet completed it;
- f) a statement (up to 300 words) written in German or English, from which the applicant's motivation for taking up this course of study can be recognised; in particular, the letter of motivation must explain which specific competences and interests the applicant takes as a basis for considering himself or herself suitable for this course of study.

(3) ¹Applications that are not submitted in full, or in due form and time, shall be excluded from the further procedure. ²The documents submitted shall be retained by the university.

(4) If a prospective student credibly demonstrates that they are disadvantaged compared to other applicants due to an obstacle in the selection procedure, appropriate compensation for disadvantage is to be granted by the Selection Committee upon application.

§ 5 Selection committee for the Master's degree programme

(1) The Faculty of Mathematics and Computer Science at the university shall form at least one selection committee to prepare the decision on selection for this degree programme.

(2) ¹A selection committee includes two members who belong to the full-time academic staff or the professorial group and a member of the students' group with advisory vote. ²At least one member must belong to the professorial group. ³The members shall be appointed by the Faculty Council of the Faculty of Mathematics and Computer Science. ⁴The tenure of the members is two years, while that of the student group member is one year. ⁵Reappointment is possible. ⁶The selection committee has a quorum if at least two members eligible to vote are present.

(3) The tasks of the selection committee are:

- a) examination of the incoming applications for admission for formal correctness;

- b) examination and, if necessary, assessment of the qualifications for entry;
- c) conducting interviews in accordance with § 7;
- d) decision on admission or rejection of applicants.

(4) The selection committee reports to the Faculty Council of the Faculty of Mathematics and Computer Science on the experience gathered after conclusion of the award procedure and, if necessary, may submit suggestions for further development of the award procedure.

§ 6 Selection procedure

(1) Selection is made based on a combination of the following criteria:

- a) based on the grade achieved in the Bachelor's degree or the grade of an equivalent certificate of academic qualification (max. 51 points),
- b) for special knowledge that is beneficial to the successful completion of this degree programme (max. 5 points),
- c) according to the result of an interview with the applicant (max. 24 points).

(2) The selection committee shall make a pre-selection from the applications received in accordance with section 3 and make a selection from the pre-selected applicants on the basis of the selection criteria in accordance with sections 1 and 4.

(3) ¹A pre-selection from the applications received shall be carried out in order to limit the number of participants in the interviews to twice the number of university places to be awarded in accordance with the selection procedure. ²The ranking in accordance with the result achieved in the Bachelor's degree or the grade of an equivalent certificate of academic qualification shall be taken as the basis. ³In the event of identical ranking, all applicants with the highest ranking shall be permitted to participate.

(4) ¹Selection shall be made on the basis of ranking, where a maximum of 80 points is attainable. ²This is generated in accordance with the following provisions:

- a) points are awarded to the applicant as follows, depending on the result achieved in the Bachelor's degree or the grade of an equivalent certificate of academic qualification:

1,0 up to and including 1,2	51 points,
over 1,2 up to and including 1,5	48 points,
over 1,5 up to and including 1,8	45 points,
over 1,8 up to and including 2,1	42 points,
over 2,1 up to and including 2,4	39 points,
over 2,4 up to and including 2,7	36 points,
over 2,7 up to and including 3,0	30 points,
over 3,0 up to and including 3,3	24 points,
over 3,3 up to and including 3,6	18 points,

over 3,6 up to and including 3,9 12 points,
over 4,0 up to and including 4,0 0 points.

b) The applicant shall be credited with a maximum of 5 points for special knowledge that is beneficial to the successful completion of this degree programme:

<i>Performance</i>	<i>Points</i>
Grants	3
Semester abroad	3
Internships outside the university of at least 8 weeks	2
Basic vocational training in professionally relevant training occupations	2
Contribution to a research project, for instance as a student assistant, of at least 8 weeks	1
Participation in a university committee for at least 1 year	1

c) Points are awarded to the applicant as follows, depending on the assessment of the degree of suitability in the interview:

ca) Depending on the nature and extent of the proven knowledge the applicant shall be credited with points as follows:

the applicant has:

excellent knowledge 12 points,
very good knowledge 9 points,
good knowledge 6 points,
satisfactory knowledge 4 points,
sufficient knowledge 2 points,
limited knowledge 0 points.

cb) Depending on the nature and extent of the reflection on the professional experience gained, the candidate will be credited with points as follows:

The reflection is

very convincing 6 points,
convincing 4 points,
not very convincing 2 points,
not convincing 0 points.

cc) Depending on the justification for the motivation to study, the applicant will be awarded points as follows:

The justification is

very convincing 6 points,
convincing 4 points,
not very convincing 2 points,

not convincing

0 points.

d) Points attained under a) to c) shall be added together.

(5) ¹If there is identical ranking after generating the ranking, the ranking sequence shall be determined based on the result of the Bachelor's degree or an equivalent degree. ²In all other cases, where there is identical ranking, lots shall be drawn to decide the outcome.

(6) ¹In all other respects, the general provisions of the regulation applying to enrolment at the university remain unaffected. ²Enrolment of applicants who are provisionally authorised for admission in accordance with § 2 section 2 is conditional upon submission of proof of successful completion of the Bachelor's course of studies or an equivalent course of studies. ³The proof must be provided by the end of 15/11 for enrolment in the winter semester and by the end of 15/05 for enrolment in the summer semester. ⁴Provided the Dean determines, on the basis of the periods of studies so far, in particular the present examination components, that the applicant will attain the degree at the latest by the end of the first semester of the Master's degree programme, the deadline in accordance with sentence 3 shall be extended to the end of 31/03 for enrolment for a winter semester and to the end of 30/09 for enrolment for a summer semester. This determination is only admissible provided

- a) as examination results, only a research-related internship and the thesis are missing or
- b) the thesis has already been submitted to the university and the amount of the examination components that are still missing does not exceed ten credits.

§ 7 Interview

(1) ¹The interview is intended to determine whether an applicant is suitable for the selected degree programme. ²The following principles apply for carrying out the interview:

- a) The interview shall normally be held at the university in the second half of June for the winter semester and the first half of January for the summer semester. The exact dates as well as the place of interview shall be announced by the university within a reasonable period before the start of interviews. The university shall invite candidates with sufficient notice. A video or a telephone conference interview is permitted, provided the identity of the applicant can be determined beyond doubt. The selection committee shall determine the details of the procedure in such cases.
- b) The selection committee shall conduct an interview lasting about 15 minutes with every applicant.
- c) A log of the key questions and answers in the course of the interview is to be kept and signed by the members of the selection committee. The log should clearly show the day and place of the interview, the name of the committee members, the name of the applicant and the assessment.

(2) The interview shall cover the following aptitudes:

- a) technical knowledge;
- b) ability to reflect on and analyze the professional experience gained and
- c) motivation to complete the degree programme.

(3) The members of the selection committee shall assess the applicant after conclusion of the interview to ascertain suitability for the selected degree programme on a scale in accordance with § 6 section 4 letter d).

(4) ¹Any applicant who fails to attend the interview without good cause shall be excluded from the further procedure. ²The selection committee shall schedule a new date for the interview upon request, provided there is good cause. ³Proof of the good cause should be provided and an application for rescheduling a new date should be made promptly, at the latest within two days after the date first scheduled. ⁴An unsuccessful applicant is entitled to participate again in the next possible selection procedure.

§ 8 Letter of admission, letter of rejection and procedure for subsequent admissions

(1) ¹Applicants who may be admitted shall receive a letter of admission from the university in text form. ²This specifies the deadline by which the applicant must enrol or declare in writing whether he or she accepts the university place. ³The applicant must enrol no later than two weeks after expiry of the deadline in accordance with sentence 2 (closing date), provided no enrolment in accordance with sentence 2 has been made. ⁴If the university has not received

- a) the enrolment in accordance with sentence 2 or
- b) the declaration in accordance with sentence 2 and the enrolment in accordance with sentence 3

by the specified deadline and in the correct form, the letter of admission shall become invalid.

⁵Notification of this legal consequence must be provided in the letter of admission.

(2) ¹Applicants who are not entitled to admission shall receive a letter of rejection in text form, in which the ranking achieved and the ranking of the applicant last admitted are listed. ²The letter of rejection shall provide information on rights of legal recourse. ³In the case of authorised applicants, it shall also contain a request that a declaration should be made in writing by a specified deadline as to whether the application for admission shall be held for a procedure for subsequent admissions. ⁴If the applicant does not submit this declaration by the deadline or in the correct form, they shall be excluded from the procedure for subsequent admissions.

⁵Reference must be made to this legal consequence.

(3) ¹The procedure for subsequent admissions shall be carried out on the basis of the ranking in accordance with § 6 sections 4 and 5. ²Once the ranking in accordance with sentence 1 has been worked through, the ranking in accordance with the result of the Bachelor's degree or an

equivalent degree shall then be applied. ³After which, in the event of identical ranking, the decision shall be made by drawing lots. ⁴The provisions of section 1 apply correspondingly.

(4) ¹The selection procedure shall be completed no later than 15/11 for admission to a winter semester or no later than 15/05 for admission to a summer semester. ²Any university places still available shall be awarded by lot to applicants authorised for admission, subject to informal application. ³The application period for this purpose shall begin two weeks before the start of the semester for which the admission is applicable, and end with conclusion of the selection procedure. The provisions of § 2 shall apply accordingly. ⁴Due to the advanced period of lectures, the awarding of university places by means of a drawing lots shall be completed no later than 30/11 for admission to a winter semester and no later than 31/05 for admission to a summer semester.

§ 9 Admission to higher semesters

(1) Free university places in higher semesters with limited admission shall be awarded to applicants in the following sequence:

- a) those who are or were enrolled in the same or a comparable degree programme
 - aa) who are or were enrolled at a different German university or at a university in another member state of the European Union or in another signatory state to the Agreement on the European Economic Area;
 - ab) who are or were enrolled at a foreign university and possess German nationality or are subject to the same university admissions laws and regulations as German citizens;
- b) those for whom the rejection of admission for personal reasons would mean extraordinary hardship;
- c) those who assert other reasons.

(2) Within each one of the three case groups in section 1, the result of the bachelor's examination or an examination equivalent to the bachelor's examination is decisive, followed by social, especially family-related, and economic reasons, and finally by lot in cases that are still identical.

§ 10 Quotas

(1) ¹From the number of admissions to this degree programme, a special quota of 30% shall be formed in advance; this comprises university places to be awarded for the admission of foreign nationals and stateless persons with a recognised educational record who are neither equivalent to Germans by law nor are nationals of another member state of the European Union nor of any other signatory state to the Agreement on the European Economic Area, nor have acquired their Bachelor's degree or an equivalent degree from a German university nor from a university in another member state of the European Union or in another signatory state

to the Agreement on the European Economic Area. ²Applications from foreign nationals and stateless persons within the meaning of sentence 1 shall not be considered in the selection procedure in accordance with § 6.

(2) ¹Selection shall take place based on the terms of §§ 1 to 8, unless otherwise regulated in the following:

a) In the ranking according to §§ 6 sections 1, 4 and 5, 8 section 3, points based on the result of the aptitude test according to § 3 are additionally taken into account. Depending on the result of the aptitude test, points will be credited to the applicant as follows:

If the applicant has correctly answered MC questions or achieved points in the following number beyond the number required for passing according to § 3 section 4 sentence 2, points will be credited to him or her as follows:

at least 85 %	20 points;
at least 77 %	18 points;
at least 69 %	16 points;
at least 61 %	14 points;
at least 53 %	12 points;
at least 45 %	10 points;
at least 37 %	8 points;
at least 29 %	6 points;
at least 21 %	4 points;
at least 13 %	2 points;
under 13 %	0 points.

b) The selection committee may also consider special circumstances in favour of completing a course of studies at a German university by awarding a total of up to 9 points. Circumstances of this nature shall be deemed particularly applicable if the applicant

- a) provides confirmation of approval for a grant from a publicly financed institution;
- b) has successfully attended a college at the suggestion of a Lower Saxony university and is preselected for a university place;
- c) is a citizen of a developing country;
- d) has right of asylum in the Federal Republic of Germany;
- e) belongs to a German-speaking minority abroad or is eligible for funding on the basis of international treaties or university agreements.

(3) Available study places according to this quota will be added to the quota for the selection procedure according to § 6.

IV. Final provision

§ 11 Entry into force

¹This regulation shall enter into force on the day following its announcement in the Official Announcements of the University of Göttingen. ²It applies for the first time for the awards procedure for the winter semester 2021/22.